


Details for Query 2

 Download screen as png

Submitted Time: 2024/05/04 01:15:12

Duration: 54 min

Running Jobs:

[224](#) [225](#) [226](#) [228](#) [230](#) [231](#) [232](#) [233](#) [235](#) [236](#) [237](#) [238](#) [239](#) [240](#) [241](#) [243](#) [244](#) [245](#) [248](#) [249](#) [250](#) [251](#) [252](#) [253](#) [254](#) [256](#) [258](#) [259](#) [262](#) [265](#) [266](#) [267](#) [268](#) [269](#) [270](#) [271](#) [273](#) [276](#) [277](#) [278](#) [280](#) [281](#) [282](#) [284](#) [285](#) [286](#) [287](#) [288](#) [289](#) [290](#) [293](#) [296](#) [299](#) [301](#) [303](#) [305](#) [306](#) [308](#) [309](#) [311](#) [312](#) [314](#) [315](#) [317](#) [318](#) [319](#) [320](#) [323](#) [324](#) [326](#) [327](#) [328](#) [329](#) [331](#) [332](#) [334](#)

Succeeded Jobs:

[227](#) [229](#) [234](#) [242](#) [246](#) [247](#) [255](#) [257](#) [260](#) [261](#) [263](#) [264](#) [272](#) [274](#) [275](#) [279](#) [283](#) [291](#) [292](#) [294](#) [295](#) [297](#) [298](#) [300](#) [302](#) [304](#) [307](#) [310](#) [313](#) [316](#) [321](#) [322](#) [325](#) [330](#) [333](#) [335](#)

AQE Plan Versions: [0](#) [1](#)

Expand all the details in the query plan visualization Show experimental metrics

▶ [Plan Visualization](#)

▶ [Text Execution Summary](#)

▼ [Details](#)

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== Physical Plan ==
AdaptiveSparkPlan (2297)
+- == Current Plan ==
  CollectLimit (1069)
  +- Project (1068)
    +- ShuffledHashJoin LeftOuter BuildRight (1067)
      :- LocalLimit (916)
      : +- Project (915)
      :   +- ShuffledHashJoin LeftOuter BuildRight (914)
      :     :- LocalLimit (747)
      :     : +- Project (746)
      :     :   +- ShuffledHashJoin LeftOuter BuildRight (745)
      :     :     :- LocalLimit (584)
      :     :     : +- Project (583)
      :     :     :   +- ShuffledHashJoin LeftOuter BuildRight (582)
      :     :     :     :- LocalLimit (505)
      :     :     :     : +- Project (504)
      :     :     :     :   +- ShuffledHashJoin LeftOuter BuildRight (503)
      :     :     :     :     :- LocalLimit (426)
      :     :     :     :     : +- Project (425)
      :     :     :     :     :   +- ShuffledHashJoin LeftOuter BuildRight (424)
      :     :     :     :     :     :- LocalLimit (362)
      :     :     :     :     :     : +- Project (361)
      :     :     :     :     :     :   +- ShuffledHashJoin LeftOuter BuildRight (360)
      :     :     :     :     :     :     :- LocalLimit (298)
      :     :     :     :     :     :     : +- Project (297)
      :     :     :     :     :     :     :   +- ShuffledHashJoin LeftOuter BuildRight (296)
      :     :     :     :     :     :     :     :- Exchange (150)
      :     :     :     :     :     :     :     : +- LocalLimit (149)
      :     :     :     :     :     :     :     :   +- HashAggregate (148)
      :     :     :     :     :     :     :     :   +- Exchange (147)
      :     :     :     :     :     :     :     :     +- HashAggregate (146)
      :     :     :     :     :     :     :     :     +- HashAggregate (145)
      :     :     :     :     :     :     :     :     +- Exchange (144)
      :     :     :     :     :     :     :     :     +- HashAggregate (143)
      :     :     :     :     :     :     :     :     +- HashAggregate (142)
      :     :     :     :     :     :     :     :     +- Exchange (141)
      :     :     :     :     :     :     :     :     +- HashAggregate (140)
      :     :     :     :     :     :     :     :     +- Union (139)
      :     :     :     :     :     :     :     :     :- HashAggregate (69)
      :     :     :     :     :     :     :     :     : +- Exchange (68)
      :     :     :     :     :     :     :     :     :   +- HashAggregate (67)
      :     :     :     :     :     :     :     :     :     +- Project (66)
      :     :     :     :     :     :     :     :     :     +-
ShuffledHashJoin LeftOuter BuildRight (65)
(59) :- Exchange
HashAggregate (58) +-
ShuffledHashJoin LeftSemi BuildRight (57) :-
Exchange (23) +-
HashAggregate (22) +-
+- Project (21)
+- ShuffledHashJoin Inner BuildRight (20)
:- Exchange (14)
: +- HashAggregate (13)
:   +- Project (12)
:     +- ShuffledHashJoin Inner BuildRight (11)
:       :- ShuffleQueryStage (5), Statistics(sizeInBytes=8.0 EiB, ColumnStat: N/A)
:         : +- PhotonShuffleMapStage (4)
:           : +- PhotonShuffleExchangeSink (3)
:             : +- PhotonRowToColumnar (2)
:               +- * Scan JDBCRelation((SELECT party_name, party_id, company_id, deleted_at, updated_at FROM public.party)
SPARK_GEN_SUBQ_3808) [numPartitions=1] (1)
:   +- ShuffleQueryStage (10), Statistics(sizeInBytes=8.0 EiB, ColumnStat: N/A)
:     +- PhotonShuffleMapStage (9)

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:      :      :      :      :      :      :      :      :      :
:      +- * Scan JDBCRelation((SELECT distinct party_id, transaction_id FROM public.transaction_party_cross_party)
SPARK_GEN_SUBQ_3848) [numPartitions=1] (39)
:      :      :      :      :      :      :      :      :      :
+- ShuffleQueryStage (48), Statistics(sizeInBytes=8.0 EiB, ColumnStat: N/A)
:      :      :      :      :      :      :      :      :      :
+- PhotonShuffleMapStage (47)
:      :      :      :      :      :      :      :      :      :
+- PhotonShuffleExchangeSink (46)
:      :      :      :      :      :      :      :      :      :
+- PhotonRowToColumnar (45)
:      :      :      :      :      :      :      :      :      :
+- * Scan JDBCRelation((SELECT fc_transaction_id FROM publish.transactions WHERE fc_updated_at > '2000-04-16 12:00:00')
SPARK_GEN_SUBQ_3856) [numPartitions=1] (44)
:      :      :      :      :      :      :      :      :      +-
ShuffleQueryStage (64), Statistics(sizeInBytes=8.0 EiB, ColumnStat: N/A)
:      :      :      :      :      :      :      :      :      +-
PhotonShuffleMapStage (63)
:      :      :      :      :      :      :      :      :      +-
PhotonShuffleExchangeSink (62)
:      :      :      :      :      :      :      :      :      +-
PhotonRowToColumnar (61)
:      :      :      :      :      :      :      :      :      +-
* Scan JDBCRelation((SELECT pdf_id FROM public.pdf_record) SPARK_GEN_SUBQ_3864) [numPartitions=1] (60)
:      :      :      :      :      :      :      :      :      +- HashAggregate (138)
:      :      :      :      :      :      :      :      :      +- Exchange (137)
:      :      :      :      :      :      :      :      :      +- HashAggregate (136)
:      :      :      :      :      :      :      :      :      +- Project (135)
:      :      :      :      :      :      :      :      :      +-
ShuffledHashJoin LeftOuter BuildRight (134)
:      :      :      :      :      :      :      :      :      :- Exchange
(128)
:      :      :      :      :      :      :      :      :      :-
HashAggregate (127)
:      :      :      :      :      :      :      :      :      :-
ShuffledHashJoin LeftSemi BuildRight (126)
:      :      :      :      :      :      :      :      :      :-
Exchange (92)
:      :      :      :      :      :      :      :      :      :-
HashAggregate (91)
+- Project (90)
:      :      :      :      :      :      :      :      :      :-
+- ShuffledHashJoin Inner BuildRight (89)
:      :      :      :      :      :      :      :      :      :-
:- Exchange (83)
:      :      :      :      :      :      :      :      :      :-
: +- HashAggregate (82)
:      :      :      :      :      :      :      :      :      :-
: +- Project (81)
:      :      :      :      :      :      :      :      :      :-
: +- ShuffledHashJoin Inner BuildRight (80)
:      :      :      :      :      :      :      :      :      :-
:      :- ShuffleQueryStage (74), Statistics(sizeInBytes=8.0 EiB, ColumnStat: N/A)
:      :      :      :      :      :      :      :      :      :-
:      +- PhotonShuffleMapStage (73)
:      :      :      :      :      :      :      :      :      :-
:      +- PhotonShuffleExchangeSink (72)
:      :      :      :      :      :      :      :      :      :-
:      +- PhotonRowToColumnar (71)
:      :      :      :      :      :      :      :      :      :-
:      +- * Scan JDBCRelation((SELECT party_name, party_id, company_id, deleted_at, updated_at FROM public.party)
SPARK_GEN_SUBQ_3872) [numPartitions=1] (70)
:      :      :      :      :      :      :      :      :      :-
:      +- ShuffleQueryStage (79), Statistics(sizeInBytes=8.0 EiB, ColumnStat: N/A)
:      :      :      :      :      :      :      :      :      :-
:      +- PhotonShuffleMapStage (78)
:      :      :      :      :      :      :      :      :      :-
:      +- PhotonShuffleExchangeSink (77)
:      :      :      :      :      :      :      :      :      :-
:      +- PhotonRowToColumnar (76)
:      :      :      :      :      :      :      :      :      :-
:      +- * Scan JDBCRelation((SELECT distinct party_id, transaction_id FROM public.transaction_party_cross_party)
SPARK_GEN_SUBQ_3880) [numPartitions=1] (75)
:      :      :      :      :      :      :      :      :      :-
+- ShuffleQueryStage (88), Statistics(sizeInBytes=8.0 EiB, ColumnStat: N/A)
:      :      :      :      :      :      :      :      :      :-
+- PhotonShuffleMapStage (87)
:      :      :      :      :      :      :      :      :      :-
+- PhotonShuffleExchangeSink (86)
:      :      :      :      :      :      :      :      :      :-
+- PhotonRowToColumnar (85)
:      :      :      :      :      :      :      :      :      :-

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:      :      :      :      :      :      :      :      +-
PhotonShuffleMapStage (132)
:      :      :      :      :      :      :      :      +-
PhotonShuffleExchangeSink (131)
:      :      :      :      :      :      :      :      +-
PhotonRowToColumnar (130)
:      :      :      :      :      :      :      :      +-
* Scan JDBCRelation((SELECT pdf_id FROM public.pdf_record) SPARK_GEN_SUBQ_3928) [numPartitions=1] (129)
:      :      :      :      :      :      :      :      +- Exchange (295)
:      :      :      :      :      :      :      :      +- SortAggregate (294)
:      :      :      :      :      :      :      :      +- Sort (293)
:      :      :      :      :      :      :      :      +- Exchange (292)
:      :      :      :      :      :      :      :      +- SortAggregate (291)
:      :      :      :      :      :      :      :      +- Sort (290)
:      :      :      :      :      :      :      :      +- Union (289)
:      :      :      :      :      :      :      :      :- HashAggregate (219)
:      :      :      :      :      :      :      :      : +- Exchange (218)
:      :      :      :      :      :      :      :      : +- HashAggregate (217)
:      :      :      :      :      :      :      :      : +- Project (216)
:      :      :      :      :      :      :      :      : +- ShuffledHashJoin LeftOuter
BuildRight (215)
:      :      :      :      :      :      :      :      :- Exchange (209)
:      :      :      :      :      :      :      :      : +- HashAggregate (208)
:      :      :      :      :      :      :      :      : +- ShuffledHashJoin
LeftSemi BuildRight (207)
:      :      :      :      :      :      :      :      :- Exchange (173)
:      :      :      :      :      :      :      :      : +- HashAggregate
(172)
:      :      :      :      :      :      :      :      : +- Project
(171)
:      :      :      :      :      :      :      :      +-
ShuffledHashJoin Inner BuildRight (170)
:      :      :      :      :      :      :      :      :-
Exchange (164)
:      :      :      :      :      :      :      :      : +-
HashAggregate (163)
:      :      :      :      :      :      :      :      : +-
Project (162)
:      :      :      :      :      :      :      :      :
+- ShuffledHashJoin Inner BuildRight (161)
:      :      :      :      :      :      :      :      :
:- ShuffleQueryStage (155), Statistics(sizeInBytes=8.0 EiB, ColumnStat: N/A)
:      :      :      :      :      :      :      :      :
: +- PhotonShuffleMapStage (154)
:      :      :      :      :      :      :      :      :
: +- PhotonShuffleExchangeSink (153)
:      :      :      :      :      :      :      :      :
: +- PhotonRowToColumnar (152)
:      :      :      :      :      :      :      :      :
: +- * Scan JDBCRelation((SELECT party_name, party_id, company_id, deleted_at, updated_at FROM public.party)
SPARK_GEN_SUBQ_3936) [numPartitions=1] (151)
:      :      :      :      :      :      :      :      :
+- ShuffleQueryStage (160), Statistics(sizeInBytes=8.0 EiB, ColumnStat: N/A)
:      :      :      :      :      :      :      :      :
+- PhotonShuffleMapStage (159)
:      :      :      :      :      :      :      :      :
+- PhotonShuffleExchangeSink (158)
:      :      :      :      :      :      :      :      :
+- PhotonRowToColumnar (157)
:      :      :      :      :      :      :      :      :
+- * Scan JDBCRelation((SELECT distinct party_id, transaction_id FROM public.transaction_party_name) SPARK_GEN_SUBQ_3944)
[numPartitions=1] (156)
:      :      :      :      :      :      :      :      : +-
ShuffleQueryStage (169), Statistics(sizeInBytes=8.0 EiB, ColumnStat: N/A)
:      :      :      :      :      :      :      :      : +-
PhotonShuffleMapStage (168)
:      :      :      :      :      :      :      :      : +-
PhotonShuffleExchangeSink (167)
:      :      :      :      :      :      :      :      :
+- PhotonRowToColumnar (166)
:      :      :      :      :      :      :      :      :
+- * Scan JDBCRelation((
SELECT
  "County" as county,
  "Transaction_Type" as transaction_type,
  "FC_Transaction_Date" as fc_transaction_date,
  "FC_Recorded_Date" as fc_recorded_date,
  "FC_Cross_Party" as fc_cross_party,
  fcdateupdated,
  fctransactionid,
  "PDF_ID" as pdf_id
FROM public.transaction) SPARK_GEN_SUBQ_3952) [numPartitions=1] (165)
:      :      :      :      :      :      :      :      : +- Exchange (206)

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:      :      :      :      :      :      :      :      :      :      :
:      +- * Scan JDBCRelation((SELECT distinct party_id, transaction_id FROM public.transaction_party_name) SPARK_GEN_SUBQ_4024)
[numPartitions=1] (243)
:      :      :      :      :      :      :      :      :      :      :
+- ShuffleQueryStage (252), Statistics(sizeInBytes=8.0 EiB, ColumnStat: N/A)
:      :      :      :      :      :      :      :      :      :      :
+- PhotonShuffleMapStage (251)
:      :      :      :      :      :      :      :      :      :      :
+- PhotonShuffleExchangeSink (250)
:      :      :      :      :      :      :      :      :      :      :
+- PhotonRowToColumnar (249)
:      :      :      :      :      :      :      :      :      :      :
+- * Scan JDBCRelation((SELECT fc_transaction_id FROM publish.transactions WHERE fc_updated_at > '2000-04-16 12:00:00')
SPARK_GEN_SUBQ_4032) [numPartitions=1] (248)
:      :      :      :      :      :      :      :      :      :      +-
HashAggregate (272)
:      :      :      :      :      :      :      :      :      :      +-
Exchange (271)
:      :      :      :      :      :      :      :      :      :      +-
HashAggregate (270)
:      :      :      :      :      :      :      :      :      :      +-
Project (269)
:      :      :      :      :      :      :      :      :      :      :
+- ShuffledHashJoin LeftSemi BuildRight (268)
:      :      :      :      :      :      :      :      :      :      :
:- ShuffleQueryStage (262), Statistics(sizeInBytes=8.0 EiB, ColumnStat: N/A)
:      :      :      :      :      :      :      :      :      :      :
: +- PhotonShuffleMapStage (261)
:      :      :      :      :      :      :      :      :      :      :
: +- PhotonShuffleExchangeSink (260)
:      :      :      :      :      :      :      :      :      :      :
: +- PhotonRowToColumnar (259)
:      :      :      :      :      :      :      :      :      :      :
: +- * Scan JDBCRelation((SELECT distinct party_id, transaction_id FROM public.transaction_party_cross_party)
SPARK_GEN_SUBQ_4040) [numPartitions=1] (258)
:      :      :      :      :      :      :      :      :      :      :
+- ShuffleQueryStage (267), Statistics(sizeInBytes=8.0 EiB, ColumnStat: N/A)
:      :      :      :      :      :      :      :      :      :      :
+- PhotonShuffleMapStage (266)
:      :      :      :      :      :      :      :      :      :      :
+- PhotonShuffleExchangeSink (265)
:      :      :      :      :      :      :      :      :      :      :
+- PhotonRowToColumnar (264)
:      :      :      :      :      :      :      :      :      :      :
+- * Scan JDBCRelation((SELECT fc_transaction_id FROM publish.transactions WHERE fc_updated_at > '2000-04-16 12:00:00')
SPARK_GEN_SUBQ_4048) [numPartitions=1] (263)
:      :      :      :      :      :      :      :      :      :      +- ShuffleQueryStage (283),
Statistics(sizeInBytes=8.0 EiB, ColumnStat: N/A)
:      :      :      :      :      :      :      :      :      :      +- PhotonShuffleMapStage
(282)
:      :      :      :      :      :      :      :      :      :      +-
PhotonShuffleExchangeSink (281)
:      :      :      :      :      :      :      :      :      :      +-
PhotonRowToColumnar (280)
:      :      :      :      :      :      :      :      :      :      +- * Scan
JDBCRelation((SELECT pdf_id FROM public.pdf_record) SPARK_GEN_SUBQ_4056) [numPartitions=1] (279)
:      :      :      :      :      :      :      :      :      :      +- Project (359)
:      :      :      :      :      :      :      :      :      :      +- SortAggregate (358)
:      :      :      :      :      :      :      :      :      :      +- SortAggregate (357)
:      :      :      :      :      :      :      :      :      :      +- Sort (356)
:      :      :      :      :      :      :      :      :      :      +- Project (355)
:      :      :      :      :      :      :      :      :      :      +- ShuffledHashJoin Inner BuildRight (354)
:      :      :      :      :      :      :      :      :      :      :- Exchange (321)
:      :      :      :      :      :      :      :      :      :      : +- SortAggregate (320)
:      :      :      :      :      :      :      :      :      :      : +- Sort (319)
:      :      :      :      :      :      :      :      :      :      : +- Project (318)
:      :      :      :      :      :      :      :      :      :      : +- ShuffledHashJoin Inner BuildRight (317)
:      :      :      :      :      :      :      :      :      :      : :- Exchange (311)
:      :      :      :      :      :      :      :      :      :      : +- Project (310)
:      :      :      :      :      :      :      :      :      :      : +- ShuffledHashJoin Inner BuildLeft
(309)
:      :      :      :      :      :      :      :      :      :      : :- ShuffleQueryStage (303),
Statistics(sizeInBytes=8.0 EiB, ColumnStat: N/A)
:      :      :      :      :      :      :      :      :      :      : +- PhotonShuffleMapStage (302)
:      :      :      :      :      :      :      :      :      :      : +-
PhotonShuffleExchangeSink (301)
:      :      :      :      :      :      :      :      :      :      : +- PhotonRowToColumnar
(300)
:      :      :      :      :      :      :      :      :      :      : +- * Scan
JDBCRelation((SELECT party_name, party_id, company_id, deleted_at, updated_at FROM public.party) SPARK_GEN_SUBQ_4064) [numPartitions=1]
(299)
:      :      :      :      :      :      :      :      :      :      : +- ShuffleQueryStage (308),
Statistics(sizeInBytes=8.0 EiB, ColumnStat: N/A)

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:      :      :      :      +- Exchange (497)
:      :      :      :      +- HashAggregate (496)
:      :      :      :      +- HashAggregate (495)
:      :      :      :      +- Exchange (494)
:      :      :      :      +- HashAggregate (493)
:      :      :      :      +- Project (492)
:      :      :      :      +- ShuffledHashJoin LeftOuter BuildRight (491)
:      :      :      :      :- Exchange (485)
:      :      :      :      +- HashAggregate (484)
:      :      :      :      +- ShuffledHashJoin LeftSemi BuildRight (483)
:      :      :      :      :- Exchange (449)
:      :      :      :      +- HashAggregate (448)
:      :      :      :      +- Project (447)
:      :      :      :      +- ShuffledHashJoin Inner BuildRight
(446)
:      :      :      :      :- Exchange (440)
:      :      :      :      +- HashAggregate (439)
:      :      :      :      +- Project (438)
:      :      :      :      +- ShuffledHashJoin Inner
BuildRight (437)
:      :      :      :      :- ShuffleQueryStage
(431), Statistics(sizeInBytes=8.0 EiB, ColumnStat: N/A)
:      :      :      :      +-
PhotonShuffleMapStage (430)
:      :      :      :      +-
PhotonShuffleExchangeSink (429)
:      :      :      :      +-
PhotonRowToColumnar (428)
:      :      :      :      +- * Scan
JDBCRelation((SELECT party_name, party_id, company_id, deleted_at, updated_at FROM public.party) SPARK_GEN_SUBQ_4192) [numPartitions=1]
(427)
:      :      :      :      +- ShuffleQueryStage
(436), Statistics(sizeInBytes=8.0 EiB, ColumnStat: N/A)
:      :      :      :      +-
PhotonShuffleMapStage (435)
:      :      :      :      +-
PhotonShuffleExchangeSink (434)
:      :      :      :      +-
PhotonRowToColumnar (433)
:      :      :      :      +- * Scan
JDBCRelation((SELECT distinct party_id, transaction_id FROM public.transaction_party_name) SPARK_GEN_SUBQ_4200) [numPartitions=1] (432)
:      :      :      :      +- ShuffleQueryStage (445),
Statistics(sizeInBytes=8.0 EiB, ColumnStat: N/A)
:      :      :      :      +- PhotonShuffleMapStage (444)
:      :      :      :      +- PhotonShuffleExchangeSink
(443)
:      :      :      :      +- PhotonRowToColumnar
(442)
:      :      :      :      +- * Scan JDBCRelation((
SELECT
  "County" as county,
  "Transaction_Type" as transaction_type,
  "FC_Transaction_Date" as fc_transaction_date,
  "FC_Recorded_Date" as fc_recorded_date,
  "FC_Cross_Party" as fc_cross_party,
  fcdateupdated,
  fctransactionid,
  "PDF_ID" as pdf_id
FROM public.transaction) SPARK_GEN_SUBQ_4208) [numPartitions=1] (441)
:      :      :      :      +- Exchange (482)
:      :      :      :      +- HashAggregate (481)
:      :      :      :      +- Union (480)
:      :      :      :      :- HashAggregate (464)
:      :      :      :      +- Exchange (463)
:      :      :      :      +- HashAggregate (462)
:      :      :      :      +- Project (461)
:      :      :      :      +- ShuffledHashJoin
LeftSemi BuildRight (460)
:      :      :      :      :- ShuffleQueryStage
(454), Statistics(sizeInBytes=8.0 EiB, ColumnStat: N/A)
:      :      :      :      +-
PhotonShuffleMapStage (453)
:      :      :      :      +-
PhotonShuffleExchangeSink (452)
:      :      :      :      +-
PhotonRowToColumnar (451)
:      :      :      :      +- * Scan
JDBCRelation((SELECT distinct party_id, transaction_id FROM public.transaction_party_name) SPARK_GEN_SUBQ_4216) [numPartitions=1] (450)
(459), Statistics(sizeInBytes=8.0 EiB, ColumnStat: N/A)
:      :      :      :      +-
PhotonShuffleMapStage (458)
:      :      :      :      +-

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:      :      : +- Project (735)
:      :      : +- Filter (734)
:      :      : +- RunningWindowFunction (733)
:      :      : +- Sort (732)
:      :      : +- Exchange (731)
:      :      : +- Project (730)
:      :      : +- Filter (729)
:      :      : +- RunningWindowFunction (728)
:      :      : +- Sort (727)
:      :      : +- HashAggregate (726)
:      :      : +- Exchange (725)
:      :      : +- HashAggregate (724)
:      :      : +- Union (723)
:      :      : :- HashAggregate (653)
:      :      : +- Exchange (652)
:      :      : +- HashAggregate (651)
:      :      : +- Project (650)
:      :      : +- ShuffledHashJoin LeftOuter BuildRight (649)
:      :      : :- Exchange (643)
:      :      : +- HashAggregate (642)
:      :      : +- ShuffledHashJoin LeftSemi BuildRight
(641)
:      :      : :- Exchange (607)
:      :      : +- HashAggregate (606)
:      :      : +- Project (605)
:      :      : +- ShuffledHashJoin Inner
BuildRight (604)
:      :      : :- Exchange (598)
:      :      : +- HashAggregate
(597)
:      :      : +- Project (596)
:      :      : +-
ShuffledHashJoin Inner BuildRight (595)
:      :      : :-
ShuffleQueryStage (589), Statistics(sizeInBytes=8.0 EiB, ColumnStat: N/A)
:      :      : +-
PhotonShuffleMapStage (588)
:      :      : +-
PhotonShuffleExchangeSink (587)
:      :      : +-
PhotonRowToColumnar (586)
:      :      :
+- * Scan JDBCRelation((SELECT party_name, party_id, company_id, deleted_at, updated_at FROM public.party) SPARK_GEN_SUBQ_4320)
[numPartitions=1] (585)
:      :      : +-
ShuffleQueryStage (594), Statistics(sizeInBytes=8.0 EiB, ColumnStat: N/A)
:      :      : +-
PhotonShuffleMapStage (593)
:      :      : +-
PhotonShuffleExchangeSink (592)
:      :      : +-
PhotonRowToColumnar (591)
:      :      :
+- * Scan JDBCRelation((SELECT distinct party_id, transaction_id FROM public.transaction_party_name) SPARK_GEN_SUBQ_4328)
[numPartitions=1] (590)
:      :      : +- ShuffleQueryStage
(603), Statistics(sizeInBytes=8.0 EiB, ColumnStat: N/A)
:      :      : +-
PhotonShuffleMapStage (602)
:      :      : +-
PhotonShuffleExchangeSink (601)
:      :      : +-
PhotonRowToColumnar (600)
:      :      : +- * Scan
JDBCRelation((
SELECT
  "County" as county,
  "Transaction_Type" as transaction_type,
  "FC_Transaction_Date" as fc_transaction_date,
  "FC_Recorded_Date" as fc_recorded_date,
  "FC_Cross_Party" as fc_cross_party,
  fcdateupdated,
  fctransactionid,
  "PDF_ID" as pdf_id
FROM public.transaction) SPARK_GEN_SUBQ_4336) [numPartitions=1] (599)
:      :      : +- Exchange (640)
:      :      : +- HashAggregate (639)
:      :      : +- Union (638)
:      :      : :- HashAggregate (622)
:      :      : +- Exchange (621)
:      :      : +- HashAggregate
(620)
:      :      : +- Project (619)

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:      :      :      :      :      :      +-
ShuffledHashJoin LeftSemi BuildRight (618)
:      :      :      :      :      :      :-
ShuffleQueryStage (612), Statistics(sizeInBytes=8.0 EiB, ColumnStat: N/A)
:      :      :      :      :      :      +-
PhotonShuffleMapStage (611)
:      :      :      :      :      :      +-
PhotonShuffleExchangeSink (610)
:      :      :      :      :      :      +-
PhotonRowToColumnar (609)
:      :      :      :      :      :      :
+- * Scan JDBCRelation((SELECT distinct party_id, transaction_id FROM public.transaction_party_name) SPARK_GEN_SUBQ_4344)
[numPartitions=1] (608)
:      :      :      :      :      :      +-
ShuffleQueryStage (617), Statistics(sizeInBytes=8.0 EiB, ColumnStat: N/A)
:      :      :      :      :      :      +-
PhotonShuffleMapStage (616)
:      :      :      :      :      :      +-
PhotonShuffleExchangeSink (615)
:      :      :      :      :      :      +-
PhotonRowToColumnar (614)
:      :      :      :      :      :      :
+- * Scan JDBCRelation((SELECT fc_transaction_id FROM publish.transactions WHERE fc_updated_at > '2000-04-16 12:00:00')
SPARK_GEN_SUBQ_4352) [numPartitions=1] (613)
:      :      :      :      :      :      +- HashAggregate (637)
:      :      :      :      :      :      +- Exchange (636)
:      :      :      :      :      :      +- HashAggregate
(635)
:      :      :      :      :      :      +- Project (634)
:      :      :      :      :      :      +-
ShuffledHashJoin LeftSemi BuildRight (633)
:      :      :      :      :      :      :-
ShuffleQueryStage (627), Statistics(sizeInBytes=8.0 EiB, ColumnStat: N/A)
:      :      :      :      :      :      +-
PhotonShuffleMapStage (626)
:      :      :      :      :      :      +-
PhotonShuffleExchangeSink (625)
:      :      :      :      :      :      +-
PhotonRowToColumnar (624)
:      :      :      :      :      :      :
+- * Scan JDBCRelation((SELECT distinct party_id, transaction_id FROM public.transaction_party_cross_party) SPARK_GEN_SUBQ_4360)
[numPartitions=1] (623)
:      :      :      :      :      :      +-
ShuffleQueryStage (632), Statistics(sizeInBytes=8.0 EiB, ColumnStat: N/A)
:      :      :      :      :      :      +-
PhotonShuffleMapStage (631)
:      :      :      :      :      :      +-
PhotonShuffleExchangeSink (630)
:      :      :      :      :      :      +-
PhotonRowToColumnar (629)
:      :      :      :      :      :      :
+- * Scan JDBCRelation((SELECT fc_transaction_id FROM publish.transactions WHERE fc_updated_at > '2000-04-16 12:00:00')
SPARK_GEN_SUBQ_4368) [numPartitions=1] (628)
:      :      :      :      :      :      +- ShuffleQueryStage (648),
Statistics(sizeInBytes=8.0 EiB, ColumnStat: N/A)
:      :      :      :      :      :      +- PhotonShuffleMapStage (647)
:      :      :      :      :      :      +- PhotonShuffleExchangeSink (646)
:      :      :      :      :      :      +- PhotonRowToColumnar (645)
:      :      :      :      :      :      +- * Scan JDBCRelation((SELECT
pdf_id FROM public.pdf_record) SPARK_GEN_SUBQ_4376) [numPartitions=1] (644)
:      :      :      :      :      :      +- HashAggregate (722)
:      :      :      :      :      :      +- Exchange (721)
:      :      :      :      :      :      +- HashAggregate (720)
:      :      :      :      :      :      +- Project (719)
:      :      :      :      :      :      +- ShuffledHashJoin LeftOuter BuildRight (718)
:      :      :      :      :      :      :- Exchange (712)
:      :      :      :      :      :      +- HashAggregate (711)
:      :      :      :      :      :      +- ShuffledHashJoin LeftSemi BuildRight
(710)
:      :      :      :      :      :      :- Exchange (676)
:      :      :      :      :      :      +- HashAggregate (675)
:      :      :      :      :      :      +- Project (674)
:      :      :      :      :      :      +- ShuffledHashJoin Inner
BuildRight (673)
:      :      :      :      :      :      :- Exchange (667)
:      :      :      :      :      :      +- HashAggregate
(666)
:      :      :      :      :      :      +- Project (665)
:      :      :      :      :      :      +-
ShuffledHashJoin Inner BuildRight (664)
:      :      :      :      :      :      :-
ShuffleQueryStage (658), Statistics(sizeInBytes=8.0 EiB, ColumnStat: N/A)
:      :      :      :      :      :      +-

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PhotonShuffleMapStage (657)
: : : : +-
PhotonShuffleExchangeSink (656)
: : : : +-
PhotonRowToColumnar (655)
: : : :
+- * Scan JDBCRelation((SELECT party_name, party_id, company_id, deleted_at, updated_at FROM public.party) SPARK_GEN_SUBQ_4384)
[numPartitions=1] (654)
: : : : +-
ShuffleQueryStage (663), Statistics(sizeInBytes=8.0 EiB, ColumnStat: N/A)
: : : : +-
PhotonShuffleMapStage (662)
: : : : +-
PhotonShuffleExchangeSink (661)
: : : : +-
PhotonRowToColumnar (660)
: : : : +-
+- * Scan JDBCRelation((SELECT distinct party_id, transaction_id FROM public.transaction_party_cross_party) SPARK_GEN_SUBQ_4392)
[numPartitions=1] (659)
: : : +- ShuffleQueryStage
(672), Statistics(sizeInBytes=8.0 EiB, ColumnStat: N/A)
: : : +-
PhotonShuffleMapStage (671)
: : : +-
PhotonShuffleExchangeSink (670)
: : : +-
PhotonRowToColumnar (669)
: : : +- * Scan
JDBCRelation((
SELECT
"County" as county,
"Transaction_Type" as transaction_type,
"FC_Transaction_Date" as fc_transaction_date,
"FC_Recorded_Date" as fc_recorded_date,
"FC_Cross_Party" as fc_cross_party,
fcdateupdated,
fctransactionid,
"PDF_ID" as pdf_id
FROM public.transaction) SPARK_GEN_SUBQ_4400) [numPartitions=1] (668)
: : : +- Exchange (709)
: : : +- HashAggregate (708)
: : : +- Union (707)
: : : :- HashAggregate (691)
: : : +- Exchange (690)
: : : +- HashAggregate
(689)
: : : +- Project (688)
: : : +-
ShuffledHashJoin LeftSemi BuildRight (687)
: : : :-
ShuffleQueryStage (681), Statistics(sizeInBytes=8.0 EiB, ColumnStat: N/A)
: : : +-
PhotonShuffleMapStage (680)
: : : +-
PhotonShuffleExchangeSink (679)
: : : +-
PhotonRowToColumnar (678)
: : : +-
+- * Scan JDBCRelation((SELECT distinct party_id, transaction_id FROM public.transaction_party_name) SPARK_GEN_SUBQ_4408)
[numPartitions=1] (677)
: : : +-
ShuffleQueryStage (686), Statistics(sizeInBytes=8.0 EiB, ColumnStat: N/A)
: : : +-
PhotonShuffleMapStage (685)
: : : +-
PhotonShuffleExchangeSink (684)
: : : +-
PhotonRowToColumnar (683)
: : : +-
+- * Scan JDBCRelation((SELECT fc_transaction_id FROM publish.transactions WHERE fc_updated_at > '2000-04-16 12:00:00')
SPARK_GEN_SUBQ_4416) [numPartitions=1] (682)
: : : +- HashAggregate (706)
: : : +- Exchange (705)
: : : +- HashAggregate
(704)
: : : +- Project (703)
: : : +-
ShuffledHashJoin LeftSemi BuildRight (702)
: : : :-
ShuffleQueryStage (696), Statistics(sizeInBytes=8.0 EiB, ColumnStat: N/A)
: : : +-
PhotonShuffleMapStage (695)
: : : +-

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```

PhotonShuffleExchangeSink (694)
:
:
PhotonRowToColumnar (693)
:
:
+- * Scan JDBCRelation((SELECT distinct party_id, transaction_id FROM public.transaction_party_cross_party) SPARK_GEN_SUBQ_4424)
[numPartitions=1] (692)
:
:
ShuffleQueryStage (701), Statistics(sizeInBytes=8.0 EiB, ColumnStat: N/A)
:
:
PhotonShuffleMapStage (700)
:
:
PhotonShuffleExchangeSink (699)
:
:
PhotonRowToColumnar (698)
:
:
+- * Scan JDBCRelation((SELECT fc_transaction_id FROM publish.transactions WHERE fc_updated_at > '2000-04-16 12:00:00')
SPARK_GEN_SUBQ_4432) [numPartitions=1] (697)
:
:
+- ShuffleQueryStage (717),
Statistics(sizeInBytes=8.0 EiB, ColumnStat: N/A)
:
:
+- PhotonShuffleMapStage (716)
+- PhotonShuffleExchangeSink (715)
+- PhotonRowToColumnar (714)
+- * Scan JDBCRelation((SELECT
pdf_id FROM public.pdf_record) SPARK_GEN_SUBQ_4440) [numPartitions=1] (713)
:
:
+- ShuffleQueryStage (741), Statistics(sizeInBytes=8.0 EiB, ColumnStat: N/A)
+- PhotonShuffleMapStage (740)
+- PhotonShuffleExchangeSink (739)
+- PhotonRowToColumnar (738)
+- * Scan JDBCRelation((
SELECT
"County" as county,
"Transaction_Type" as transaction_type,
"FC_Transaction_Date" as fc_transaction_date,
"FC_Recorded_Date" as fc_recorded_date,
"FC_Cross_Party" as fc_cross_party,
fcdateupdated,
fctransactionid,
"PDF_ID" as pdf_id
FROM public.transaction) SPARK_GEN_SUBQ_4448) [numPartitions=1] (737)
:
+- ObjectHashAggregate (913)
+- Project (912)
+- HashAggregate (911)
+- Window (910)
+- Sort (909)
+- Exchange (908)
+- SortAggregate (907)
+- Sort (906)
+- Exchange (905)
+- SortAggregate (904)
+- Sort (903)
+- Project (902)
+- ShuffledHashJoin Inner BuildRight (901)
:- Exchange (895)
+- Project (894)
+- Filter (893)
+- RunningWindowFunction (892)
+- Sort (891)
+- Exchange (890)
+- HashAggregate (889)
+- Exchange (888)
+- HashAggregate (887)
+- Union (886)
:- HashAggregate (816)
+- Exchange (815)
+- HashAggregate (814)
+- Project (813)
+- ShuffledHashJoin LeftOuter
BuildRight (812)
:
:
:- Exchange (806)
+- HashAggregate (805)
+- ShuffledHashJoin LeftSemi
BuildRight (804)
:
:
:- Exchange (770)
+- HashAggregate (769)
+- Project (768)
+-
ShuffledHashJoin Inner BuildRight (767)
:
:
:- Exchange
(761)
:
:
+-
HashAggregate (760)
:
:
+-
Project (759)
:
:
+-

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```

:
ShuffledHashJoin Inner BuildRight (758)
:
:
ShuffleQueryStage (752), Statistics(sizeInBytes=8.0 EiB, ColumnStat: N/A)
:
+- PhotonShuffleMapStage (751)
:
+- PhotonShuffleExchangeSink (750)
:
+- PhotonRowToColumnar (749)
:
+- * Scan JDBCRelation((SELECT party_name, party_id, company_id, deleted_at, updated_at FROM public.party) SPARK_GEN_SUBQ_4456)
[numPartitions=1] (748)
:
ShuffleQueryStage (757), Statistics(sizeInBytes=8.0 EiB, ColumnStat: N/A)
:
+- PhotonShuffleMapStage (756)
:
+- PhotonShuffleExchangeSink (755)
:
+- PhotonRowToColumnar (754)
:
+- * Scan JDBCRelation((SELECT distinct party_id, transaction_id FROM public.transaction_party_name) SPARK_GEN_SUBQ_4464)
[numPartitions=1] (753)
:
ShuffleQueryStage (766), Statistics(sizeInBytes=8.0 EiB, ColumnStat: N/A)
:
PhotonShuffleMapStage (765)
:
PhotonShuffleExchangeSink (764)
:
PhotonRowToColumnar (763)
:
* Scan JDBCRelation((
SELECT
  "County" as county,
  "Transaction_Type" as transaction_type,
  "FC_Transaction_Date" as fc_transaction_date,
  "FC_Recorded_Date" as fc_recorded_date,
  "FC_Cross_Party" as fc_cross_party,
  fcdateupdated,
  fctransactionid,
  "PDF_ID" as pdf_id
FROM public.transaction) SPARK_GEN_SUBQ_4472) [numPartitions=1] (762)
:
:
:
:
(785)
:
(784)
:
HashAggregate (783)
:
Project (782)
:
ShuffledHashJoin LeftSemi BuildRight (781)
:
ShuffleQueryStage (775), Statistics(sizeInBytes=8.0 EiB, ColumnStat: N/A)
:
+- PhotonShuffleMapStage (774)
:
+- PhotonShuffleExchangeSink (773)
:
+- PhotonRowToColumnar (772)
:
+- * Scan JDBCRelation((SELECT distinct party_id, transaction_id FROM public.transaction_party_name) SPARK_GEN_SUBQ_4480)
[numPartitions=1] (771)
:
ShuffleQueryStage (780), Statistics(sizeInBytes=8.0 EiB, ColumnStat: N/A)
:
+- PhotonShuffleMapStage (779)
:
+- PhotonShuffleExchangeSink (778)
:
+- PhotonRowToColumnar (777)
:
+- * Scan JDBCRelation((SELECT fc_transaction_id FROM publish.transactions WHERE fc_updated_at > '2000-04-16 12:00:00')
SPARK_GEN_SUBQ_4488) [numPartitions=1] (776)
:
(800)
:
(799)

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:
+- * Scan JDBCRelation((SELECT fc_transaction_id FROM publish.transactions WHERE fc_updated_at > '2000-04-16 12:00:00')
SPARK_GEN_SUBQ_4568) [numPartitions=1] (860)
:
:
Statistics(sizeInBytes=8.0 EiB, ColumnStat: N/A)
:
:
(878)
:
(877)
:
JDBCRelation((SELECT pdf_id FROM public.pdf_record) SPARK_GEN_SUBQ_4576) [numPartitions=1] (876)
:
:
:
:
:
:
SELECT
"County" as county,
"Transaction_Type" as transaction_type,
"FC_Transaction_Date" as fc_transaction_date,
"FC_Recorded_Date" as fc_recorded_date,
"FC_Cross_Party" as fc_cross_party,
fcdateupdated,
fctransactionid,
"PDF_ID" as pdf_id
FROM public.transaction) SPARK_GEN_SUBQ_4584) [numPartitions=1] (896)
+- ObjectHashAggregate (1066)
+- Project (1065)
+- HashAggregate (1064)
+- Window (1063)
+- Sort (1062)
+- Exchange (1061)
+- SortAggregate (1060)
+- Sort (1059)
+- Exchange (1058)
+- SortAggregate (1057)
+- Sort (1056)
+- Union (1055)
:- HashAggregate (985)
: +- Exchange (984)
: +- HashAggregate (983)
: +- Project (982)
: +- ShuffledHashJoin LeftOuter BuildRight (981)
: :- Exchange (975)
: +- HashAggregate (974)
: +- ShuffledHashJoin LeftSemi BuildRight (973)
: :- Exchange (939)
: +- HashAggregate (938)
: +- Project (937)
: +- ShuffledHashJoin Inner BuildRight (936)
: :- Exchange (930)
: +- HashAggregate (929)
: +- Project (928)
: +- ShuffledHashJoin Inner BuildRight (927)
: :- ShuffleQueryStage (921),
Statistics(sizeInBytes=8.0 EiB, ColumnStat: N/A)
:
:
:
:
: +- PhotonShuffleMapStage (920)
: +- PhotonShuffleExchangeSink (919)
: +- PhotonRowToColumnar (918)
: +- * Scan JDBCRelation((SELECT
party_name, party_id, company_id, deleted_at, updated_at FROM public.party) SPARK_GEN_SUBQ_3552) [numPartitions=1] (917)
: +- ShuffleQueryStage (926),
Statistics(sizeInBytes=8.0 EiB, ColumnStat: N/A)
:
:
:
:
+- PhotonShuffleMapStage (925)
+- PhotonShuffleExchangeSink (924)
+- PhotonRowToColumnar (923)
+- * Scan JDBCRelation((SELECT
distinct party_id, transaction_id FROM public.transaction_party_name) SPARK_GEN_SUBQ_3560) [numPartitions=1] (922)
: +- ShuffleQueryStage (935), Statistics(sizeInBytes=8.0
EiB, ColumnStat: N/A)
:
:
:
+- PhotonShuffleMapStage (934)
+- PhotonShuffleExchangeSink (933)
+- PhotonRowToColumnar (932)
+- * Scan JDBCRelation((
SELECT
"County" as county,
"Transaction_Type" as transaction_type,
"FC_Transaction_Date" as fc_transaction_date,
"FC_Recorded_Date" as fc_recorded_date,
"FC_Cross_Party" as fc_cross_party,
fcdateupdated,
fctransactionid,

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"PDF_ID" as pdf_id
FROM public.transaction) SPARK_GEN_SUBQ_3568) [numPartitions=1] (931)
      :           :           +- Exchange (972)
      :           :           +- HashAggregate (971)
      :           :           +- Union (970)
      :           :           :- HashAggregate (954)
      :           :           : +- Exchange (953)
      :           :           : +- HashAggregate (952)
      :           :           : +- Project (951)
      :           :           : +- ShuffledHashJoin LeftSemi BuildRight (950)
      :           :           : :- ShuffleQueryStage (944),
Statistics(sizeInBytes=8.0 EiB, ColumnStat: N/A)
      :           :           : +- PhotonShuffleMapStage (943)
      :           :           : +- PhotonShuffleExchangeSink (942)
      :           :           : +- PhotonRowToColumnar (941)
      :           :           : +- * Scan JDBCRelation((SELECT
distinct party_id, transaction_id FROM public.transaction_party_name) SPARK_GEN_SUBQ_3576) [numPartitions=1] (940)
      :           :           : +- ShuffleQueryStage (949),
Statistics(sizeInBytes=8.0 EiB, ColumnStat: N/A)
      :           :           : +- PhotonShuffleMapStage (948)
      :           :           : +- PhotonShuffleExchangeSink (947)
      :           :           : +- PhotonRowToColumnar (946)
      :           :           : +- * Scan JDBCRelation((SELECT
fc_transaction_id FROM publish.transactions WHERE fc_updated_at > '2000-04-16 12:00:00') SPARK_GEN_SUBQ_3584) [numPartitions=1] (945)
      :           :           +- HashAggregate (969)
      :           :           +- Exchange (968)
      :           :           +- HashAggregate (967)
      :           :           +- Project (966)
      :           :           +- ShuffledHashJoin LeftSemi BuildRight (965)
      :           :           :- ShuffleQueryStage (959),
Statistics(sizeInBytes=8.0 EiB, ColumnStat: N/A)
      :           :           : +- PhotonShuffleMapStage (958)
      :           :           : +- PhotonShuffleExchangeSink (957)
      :           :           : +- PhotonRowToColumnar (956)
      :           :           : +- * Scan JDBCRelation((SELECT
distinct party_id, transaction_id FROM public.transaction_party_cross_party) SPARK_GEN_SUBQ_3592) [numPartitions=1] (955)
      :           :           +- ShuffleQueryStage (964),
Statistics(sizeInBytes=8.0 EiB, ColumnStat: N/A)
      :           :           : +- PhotonShuffleMapStage (963)
      :           :           : +- PhotonShuffleExchangeSink (962)
      :           :           : +- PhotonRowToColumnar (961)
      :           :           : +- * Scan JDBCRelation((SELECT
fc_transaction_id FROM publish.transactions WHERE fc_updated_at > '2000-04-16 12:00:00') SPARK_GEN_SUBQ_3600) [numPartitions=1] (960)
      :           :           +- ShuffleQueryStage (980), Statistics(sizeInBytes=8.0 EiB, ColumnStat: N/A)
      :           :           +- PhotonShuffleMapStage (979)
      :           :           +- PhotonShuffleExchangeSink (978)
      :           :           +- PhotonRowToColumnar (977)
      :           :           +- * Scan JDBCRelation((SELECT pdf_id FROM public.pdf_record)
SPARK_GEN_SUBQ_3608) [numPartitions=1] (976)
      +- HashAggregate (1054)
      +- Exchange (1053)
      +- HashAggregate (1052)
      +- Project (1051)
      +- ShuffledHashJoin LeftOuter BuildRight (1050)
      :- Exchange (1044)
      : +- HashAggregate (1043)
      : +- ShuffledHashJoin LeftSemi BuildRight (1042)
      : :- Exchange (1008)
      : : +- HashAggregate (1007)
      : : +- Project (1006)
      : : +- ShuffledHashJoin Inner BuildRight (1005)
      : : :- Exchange (999)
      : : : +- HashAggregate (998)
      : : : +- Project (997)
      : : : +- ShuffledHashJoin Inner BuildRight (996)
      : : : :- ShuffleQueryStage (990),
Statistics(sizeInBytes=8.0 EiB, ColumnStat: N/A)
      :           :           : +- PhotonShuffleMapStage (989)
      :           :           : +- PhotonShuffleExchangeSink (988)
      :           :           : +- PhotonRowToColumnar (987)
      :           :           : +- * Scan JDBCRelation((SELECT
party_name, party_id, company_id, deleted_at, updated_at FROM public.party) SPARK_GEN_SUBQ_3616) [numPartitions=1] (986)
      :           :           : +- ShuffleQueryStage (995),
Statistics(sizeInBytes=8.0 EiB, ColumnStat: N/A)
      :           :           : +- PhotonShuffleMapStage (994)
      :           :           : +- PhotonShuffleExchangeSink (993)
      :           :           : +- PhotonRowToColumnar (992)
      :           :           : +- * Scan JDBCRelation((SELECT
distinct party_id, transaction_id FROM public.transaction_party_cross_party) SPARK_GEN_SUBQ_3624) [numPartitions=1] (991)
      :           :           : +- ShuffleQueryStage (1004), Statistics(sizeInBytes=8.0
EiB, ColumnStat: N/A)
      :           :           : +- PhotonShuffleMapStage (1003)
      :           :           : +- PhotonShuffleExchangeSink (1002)

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:      :      +- PhotonRowToColumnar (1001)
:      :      +- * Scan JDBCRelation((
SELECT
  "County" as county,
  "Transaction_Type" as transaction_type,
  "FC_Transaction_Date" as fc_transaction_date,
  "FC_Recorded_Date" as fc_recorded_date,
  "FC_Cross_Party" as fc_cross_party,
  fcdateupdated,
  fctransactionid,
  "PDF_ID" as pdf_id
FROM public.transaction) SPARK_GEN_SUBQ_3632) [numPartitions=1] (1000)
:      :      +- Exchange (1041)
:      :      +- HashAggregate (1040)
:      :      +- Union (1039)
:      :      :- HashAggregate (1023)
:      :      : +- Exchange (1022)
:      :      : +- HashAggregate (1021)
:      :      : +- Project (1020)
:      :      : +- ShuffledHashJoin LeftSemi BuildRight (1019)
:      :      :- ShuffleQueryStage (1013),
Statistics(sizeInBytes=8.0 EiB, ColumnStat: N/A)
:      :      : +- PhotonShuffleMapStage (1012)
:      :      : +- PhotonShuffleExchangeSink (1011)
:      :      : +- PhotonRowToColumnar (1010)
:      :      : +- * Scan JDBCRelation((SELECT
distinct party_id, transaction_id FROM public.transaction_party_name) SPARK_GEN_SUBQ_3640) [numPartitions=1] (1009)
:      :      +- ShuffleQueryStage (1018),
Statistics(sizeInBytes=8.0 EiB, ColumnStat: N/A)
:      :      : +- PhotonShuffleMapStage (1017)
:      :      : +- PhotonShuffleExchangeSink (1016)
:      :      : +- PhotonRowToColumnar (1015)
:      :      : +- * Scan JDBCRelation((SELECT
fc_transaction_id FROM publish.transactions WHERE fc_updated_at > '2000-04-16 12:00:00') SPARK_GEN_SUBQ_3648) [numPartitions=1] (1014)
:      :      +- HashAggregate (1038)
:      :      +- Exchange (1037)
:      :      +- HashAggregate (1036)
:      :      +- Project (1035)
:      :      +- ShuffledHashJoin LeftSemi BuildRight (1034)
:      :      :- ShuffleQueryStage (1028),
Statistics(sizeInBytes=8.0 EiB, ColumnStat: N/A)
:      :      : +- PhotonShuffleMapStage (1027)
:      :      : +- PhotonShuffleExchangeSink (1026)
:      :      : +- PhotonRowToColumnar (1025)
:      :      : +- * Scan JDBCRelation((SELECT
distinct party_id, transaction_id FROM public.transaction_party_cross_party) SPARK_GEN_SUBQ_3656) [numPartitions=1] (1024)
:      :      +- ShuffleQueryStage (1033),
Statistics(sizeInBytes=8.0 EiB, ColumnStat: N/A)
:      :      : +- PhotonShuffleMapStage (1032)
:      :      : +- PhotonShuffleExchangeSink (1031)
:      :      : +- PhotonRowToColumnar (1030)
:      :      : +- * Scan JDBCRelation((SELECT
fc_transaction_id FROM publish.transactions WHERE fc_updated_at > '2000-04-16 12:00:00') SPARK_GEN_SUBQ_3664) [numPartitions=1] (1029)
+- ShuffleQueryStage (1049), Statistics(sizeInBytes=8.0 EiB, ColumnStat: N/A)
+- PhotonShuffleMapStage (1048)
+- PhotonShuffleExchangeSink (1047)
+- PhotonRowToColumnar (1046)
+- * Scan JDBCRelation((SELECT pdf_id FROM public.pdf_record)
SPARK_GEN_SUBQ_3672) [numPartitions=1] (1045)
+- == Initial Plan ==
CollectLimit (2296)
+- Project (2295)
+- SortMergeJoin LeftOuter (2294)
:- Sort (2120)
: +- LocalLimit (2119)
: +- Project (2118)
: +- SortMergeJoin LeftOuter (2117)
: :- ColumnarToRow (1922)
: +- PhotonResultStage (1921)
: +- PhotonSort (1920)
: +- PhotonLocalLimit (1919)
: +- PhotonProject (1918)
: +- PhotonShuffledHashJoin LeftOuter (1917)
: +- PhotonLocalLimit (1731)
: +- PhotonProject (1730)
: +- PhotonShuffledHashJoin LeftOuter (1729)
: +- PhotonLocalLimit (1638)
: +- PhotonProject (1637)
: +- PhotonShuffledHashJoin LeftOuter (1636)
: +- PhotonLocalLimit (1545)
: +- PhotonProject (1544)
: +- PhotonShuffledHashJoin LeftOuter (1543)
: +- PhotonLocalLimit (1479)

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:      :      :      :      :      :      +- PhotonProject (1478)
:      :      :      :      :      :      +- PhotonShuffledHashJoin LeftOuter (1477)
:      :      :      :      :      :      :- PhotonLocalLimit (1413)
:      :      :      :      :      :      +- PhotonProject (1412)
:      :      :      :      :      :      +- PhotonShuffledHashJoin LeftOuter (1411)
:      :      :      :      :      :      :- PhotonShuffleExchangeSource (1245)
:      :      :      :      :      :      +- PhotonShuffleMapStage (1244)
:      :      :      :      :      :      +- PhotonShuffleExchangeSink (1243)
:      :      :      :      :      :      +- PhotonLocalLimit (1242)
:      :      :      :      :      :      +- PhotonGroupingAgg (1241)
:      :      :      :      :      :      +- PhotonShuffleExchangeSource (1240)
:      :      :      :      :      :      +- PhotonShuffleMapStage (1239)
:      :      :      :      :      :      +- PhotonShuffleExchangeSink
(1238)
:      :      :      :      :      :      +- PhotonGroupingAgg (1237)
:      :      :      :      :      :      +- PhotonGroupingAgg (1236)
:      :      :      :      :      :      +-
PhotonShuffleExchangeSource (1235)
:      :      :      :      :      :      +-
PhotonShuffleMapStage (1234)
:      :      :      :      :      :      +-
PhotonShuffleExchangeSink (1233)
:      :      :      :      :      :      +-
PhotonGroupingAgg (1232)
:      :      :      :      :      :      +-
PhotonGroupingAgg (1231)
:      :      :      :      :      :      +-
PhotonShuffleExchangeSource (1230)
:      :      :      :      :      :      +-
PhotonUnionShuffleMapStage (1229)
:      :      :      :      :      :      +-
PhotonUnionShuffleExchangeSink (1228)
:- PhotonShuffleExchangeSink (1148)
: +- PhotonGroupingAgg (1147)
: +- PhotonGroupingAgg (1146)
: +- PhotonShuffleExchangeSource (1145)
: +- PhotonShuffleMapStage (1144)
: +- PhotonShuffleExchangeSink (1143)
: +- PhotonGroupingAgg (1142)
: +- PhotonProject (1141)
: +- PhotonShuffledHashJoin LeftOuter (1140)
: +- PhotonShuffleExchangeSource (1135)
: +- PhotonShuffleMapStage (1134)
: +- PhotonShuffleExchangeSink (1133)
: +- PhotonGroupingAgg (1132)
: +- PhotonShuffledHashJoin LeftSemi (1131)
: +- PhotonShuffleExchangeSource (1093)
: +- PhotonShuffleMapStage (1092)
: +- PhotonShuffleExchangeSink (1091)
: +- PhotonGroupingAgg (1090)
: +- PhotonProject (1089)
: +- PhotonShuffledHashJoin Inner (1088)
: +- PhotonShuffleExchangeSource (1083)
: +- PhotonShuffleMapStage (1082)
: +- PhotonShuffleExchangeSink (1081)
: +- PhotonGroupingAgg (1080)
: +- PhotonProject (1079)

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:      :      :      :      :      :      :
:      +- PhotonShuffledHashJoin LeftSemi (1210)
:      :      :      :      :      :      :
:      :- PhotonShuffleExchangeSource (1172)
:      :      :      :      :      :      :
:      : +- PhotonShuffleMapStage (1171)
:      :      :      :      :      :      :
:      : +- PhotonShuffleExchangeSink (1170)
:      :      :      :      :      :      :
:      : +- PhotonGroupingAgg (1169)
:      :      :      :      :      :      :
:      : +- PhotonProject (1168)
:      :      :      :      :      :      :
:      : +- PhotonShuffledHashJoin Inner (1167)
:      :      :      :      :      :      :
:      : :- PhotonShuffleExchangeSource (1162)
:      :      :      :      :      :      :
:      : +- PhotonShuffleMapStage (1161)
:      :      :      :      :      :      :
:      : +- PhotonShuffleExchangeSink (1160)
:      :      :      :      :      :      :
:      : +- PhotonGroupingAgg (1159)
:      :      :      :      :      :      :
:      : +- PhotonProject (1158)
:      :      :      :      :      :      :
:      : +- PhotonShuffledHashJoin Inner (1157)
:      :      :      :      :      :      :
:      : :- PhotonShuffleExchangeSource (1152)
:      :      :      :      :      :      :
:      : +- PhotonShuffleMapStage (1151)
:      :      :      :      :      :      :
:      : +- PhotonShuffleExchangeSink (1150)
:      :      :      :      :      :      :
:      : +- PhotonRowToColumnar (1149)
:      :      :      :      :      :      :
:      : +- Scan JDBCRelation((SELECT party_name, party_id, company_id, deleted_at,
updated_at FROM public.party) SPARK_GEN_SUBQ_3872) [numPartitions=1] (70)
:      :      :      :      :      :      :
:      : +- PhotonShuffleExchangeSource (1156)
:      :      :      :      :      :      :
:      : +- PhotonShuffleMapStage (1155)
:      :      :      :      :      :      :
:      : +- PhotonShuffleExchangeSink (1154)
:      :      :      :      :      :      :
:      : +- PhotonRowToColumnar (1153)
:      :      :      :      :      :      :
:      : +- Scan JDBCRelation((SELECT distinct party_id, transaction_id FROM
public.transaction_party_cross_party) SPARK_GEN_SUBQ_3880) [numPartitions=1] (75)
:      :      :      :      :      :      :
:      : +- PhotonShuffleExchangeSource (1166)
:      :      :      :      :      :      :
:      : +- PhotonShuffleMapStage (1165)
:      :      :      :      :      :      :
:      : +- PhotonShuffleExchangeSink (1164)
:      :      :      :      :      :      :
:      : +- PhotonRowToColumnar (1163)
:      :      :      :      :      :      :
:      : +- Scan JDBCRelation((
SELECT
  "County" as county,
  "Transaction_Type" as transaction_type,
  "FC_Transaction_Date" as fc_transaction_date,
  "FC_Recorded_Date" as fc_recorded_date,
  "FC_Cross_Party" as fc_cross_party,
  fcdateupdated,
  fctransactionid,
  "PDF_ID" as pdf_id
FROM public.transaction) SPARK_GEN_SUBQ_3888) [numPartitions=1] (84)
:      :      :      :      :      :      :
:      +- PhotonShuffleExchangeSource (1209)
:      :      :      :      :      :      :
:      +- PhotonUnionShuffleMapStage (1208)
:      :      :      :      :      :      :
:      +- PhotonUnionShuffleExchangeSink (1207)
:      :      :      :      :      :      :
:      :- PhotonShuffleExchangeSink (1189)
:      :      :      :      :      :      :
:      : +- PhotonGroupingAgg (1188)
:      :      :      :      :      :      :
:      : +- PhotonGroupingAgg (1187)
:      :      :      :      :      :      :
:      : +- PhotonShuffleExchangeSource (1186)
:      :      :      :      :      :      :
:      :      :      :      :      :      :

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:           :           +- PhotonShuffleMapStage (1185)
:           :           :           :           :           :
:           :           +- PhotonShuffleExchangeSink (1184)
:           :           :           :           :           :
:           :           +- PhotonGroupingAgg (1183)
:           :           :           :           :           :
:           :           +- PhotonProject (1182)
:           :           :           :           :           :
:           :           +- PhotonShuffledHashJoin LeftSemi (1181)
:           :           :           :           :           :
:           :           :- PhotonShuffleExchangeSource (1176)
:           :           :           :           :           :
:           :           :           +- PhotonShuffleMapStage (1175)
:           :           :           :           :           :
:           :           :           +- PhotonShuffleExchangeSink (1174)
:           :           :           :           :           :
:           :           :           +- PhotonRowToColumnar (1173)
:           :           :           :           :           :
:           :           :           +- Scan JDBCRelation((SELECT distinct party_id, transaction_id FROM
public.transaction_party_name) SPARK_GEN_SUBQ_3896) [numPartitions=1] (93)
:           :           :           :           :           :
:           :           :           +- PhotonShuffleExchangeSource (1180)
:           :           :           :           :           :
:           :           :           +- PhotonShuffleMapStage (1179)
:           :           :           :           :           :
:           :           :           +- PhotonShuffleExchangeSink (1178)
:           :           :           :           :           :
:           :           :           +- PhotonRowToColumnar (1177)
:           :           :           :           :           :
:           :           :           +- Scan JDBCRelation((SELECT fc_transaction_id FROM publish.transactions
WHERE fc_updated_at > '2000-04-16 12:00:00') SPARK_GEN_SUBQ_3904) [numPartitions=1] (98)
:           :           :           :           :           :
:           :           :           +- PhotonShuffleExchangeSink (1206)
:           :           :           :           :           :
:           :           :           +- PhotonGroupingAgg (1205)
:           :           :           :           :           :
:           :           :           +- PhotonGroupingAgg (1204)
:           :           :           :           :           :
:           :           :           +- PhotonShuffleExchangeSource (1203)
:           :           :           :           :           :
:           :           :           +- PhotonShuffleMapStage (1202)
:           :           :           :           :           :
:           :           :           +- PhotonShuffleExchangeSink (1201)
:           :           :           :           :           :
:           :           :           +- PhotonGroupingAgg (1200)
:           :           :           :           :           :
:           :           :           +- PhotonProject (1199)
:           :           :           :           :           :
:           :           :           +- PhotonShuffledHashJoin LeftSemi (1198)
:           :           :           :           :           :
:           :           :           :- PhotonShuffleExchangeSource (1193)
:           :           :           :           :           :
:           :           :           :           +- PhotonShuffleMapStage (1192)
:           :           :           :           :           :
:           :           :           :           +- PhotonShuffleExchangeSink (1191)
:           :           :           :           :           :
:           :           :           :           +- PhotonRowToColumnar (1190)
:           :           :           :           :           :
:           :           :           :           +- Scan JDBCRelation((SELECT distinct party_id, transaction_id FROM
public.transaction_party_cross_party) SPARK_GEN_SUBQ_3912) [numPartitions=1] (108)
:           :           :           :           :           :
:           :           :           :           +- PhotonShuffleExchangeSource (1197)
:           :           :           :           :           :
:           :           :           :           +- PhotonShuffleMapStage (1196)
:           :           :           :           :           :
:           :           :           :           +- PhotonShuffleExchangeSink (1195)
:           :           :           :           :           :
:           :           :           :           +- PhotonRowToColumnar (1194)
:           :           :           :           :           :
:           :           :           :           +- Scan JDBCRelation((SELECT fc_transaction_id FROM publish.transactions
WHERE fc_updated_at > '2000-04-16 12:00:00') SPARK_GEN_SUBQ_3920) [numPartitions=1] (113)
:           :           :           :           :           :
+- PhotonShuffleExchangeSource (1218)
:           :           :           :           :           :
+- PhotonShuffleMapStage (1217)
:           :           :           :           :           :
+- PhotonShuffleExchangeSink (1216)
:           :           :           :           :           :
+- PhotonRowToColumnar (1215)
:           :           :           :           :           :
+- Scan JDBCRelation((SELECT pdf_id FROM public.pdf_record) SPARK_GEN_SUBQ_3928) [numPartitions=1] (129)
:           :           :           :           :           :
:           :           :           :           :           +- PhotonShuffleExchangeSource (1410)
:           :           :           :           :           +- PhotonShuffleMapStage (1409)

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:          +- PhotonShuffleExchangeSink (1261)
:          :          :          :          :          :          :
:          +- PhotonRowToColumnar (1260)
:          :          :          :          :          :          :
:          +- Scan JDBCRelation((
SELECT
  "County" as county,
  "Transaction_Type" as transaction_type,
  "FC_Transaction_Date" as fc_transaction_date,
  "FC_Recorded_Date" as fc_recorded_date,
  "FC_Cross_Party" as fc_cross_party,
  fcdateupdated,
  fctransactionid,
  "PDF_ID" as pdf_id
FROM public.transaction) SPARK_GEN_SUBQ_3952) [numPartitions=1] (165)
+- PhotonShuffleExchangeSource (1306)
:          :          :          :          :          :          :
+- PhotonUnionShuffleMapStage (1305)
:          :          :          :          :          :          :
+- PhotonUnionShuffleExchangeSink (1304)
:          :          :          :          :          :          :
:- PhotonShuffleExchangeSink (1286)
:          :          :          :          :          :          :
: +- PhotonGroupingAgg (1285)
:          :          :          :          :          :          :
:   +- PhotonGroupingAgg (1284)
:          :          :          :          :          :          :
:     +- PhotonShuffleExchangeSource (1283)
:          :          :          :          :          :          :
:       +- PhotonShuffleMapStage (1282)
:          :          :          :          :          :          :
:         +- PhotonShuffleExchangeSink (1281)
:          :          :          :          :          :          :
:           +- PhotonGroupingAgg (1280)
:          :          :          :          :          :          :
:             +- PhotonProject (1279)
:          :          :          :          :          :          :
:               +- PhotonShuffledHashJoin LeftSemi (1278)
:          :          :          :          :          :          :
:                   :- PhotonShuffleExchangeSource (1273)
:          :          :          :          :          :          :
:                       : +- PhotonShuffleMapStage (1272)
:          :          :          :          :          :          :
:                           +- PhotonShuffleExchangeSink (1271)
:          :          :          :          :          :          :
:                               +- PhotonRowToColumnar (1270)
:          :          :          :          :          :          :
:                                   +- Scan JDBCRelation((SELECT distinct party_id, transaction_id FROM public.transaction_party_name)
SPARK_GEN_SUBQ_3960) [numPartitions=1] (174)
:          :          :          :          :          :          :
:                   +- PhotonShuffleExchangeSource (1277)
:          :          :          :          :          :          :
:                       +- PhotonShuffleMapStage (1276)
:          :          :          :          :          :          :
:                           +- PhotonShuffleExchangeSink (1275)
:          :          :          :          :          :          :
:                               +- PhotonRowToColumnar (1274)
:          :          :          :          :          :          :
:                                   +- Scan JDBCRelation((SELECT fc_transaction_id FROM publish.transactions WHERE fc_updated_at >
'2000-04-16 12:00:00') SPARK_GEN_SUBQ_3968) [numPartitions=1] (179)
+- PhotonShuffleExchangeSink (1303)
:          :          :          :          :          :          :
+- PhotonGroupingAgg (1302)
:          :          :          :          :          :          :
+- PhotonGroupingAgg (1301)
:          :          :          :          :          :          :
+- PhotonShuffleExchangeSource (1300)
:          :          :          :          :          :          :
+- PhotonShuffleMapStage (1299)
:          :          :          :          :          :          :
+- PhotonShuffleExchangeSink (1298)
:          :          :          :          :          :          :
+- PhotonGroupingAgg (1297)
:          :          :          :          :          :          :
+- PhotonProject (1296)
:          :          :          :          :          :          :
+- PhotonShuffledHashJoin LeftSemi (1295)
:          :          :          :          :          :          :
:- PhotonShuffleExchangeSource (1290)
:          :          :          :          :          :          :
: +- PhotonShuffleMapStage (1289)

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:      :      :      :      :      :      :      :      :
:  +- PhotonShuffleExchangeSink (1288)
:      :      :      :      :      :      :      :      :
:  +- PhotonRowToColumnar (1287)
:      :      :      :      :      :      :      :      :
:  +- Scan JDBCRelation((SELECT distinct party_id, transaction_id FROM public.transaction_party_cross_party) SPARK_GEN_SUBQ_3976)
[numPartitions=1] (189)
:      :      :      :      :      :      :      :      :
+- PhotonShuffleExchangeSource (1294)
:      :      :      :      :      :      :      :      :
+- PhotonShuffleMapStage (1293)
:      :      :      :      :      :      :      :      :
+- PhotonShuffleExchangeSink (1292)
:      :      :      :      :      :      :      :      :
+- PhotonRowToColumnar (1291)
:      :      :      :      :      :      :      :      :
+- Scan JDBCRelation((SELECT fc_transaction_id FROM publish.transactions WHERE fc_updated_at > '2000-04-16 12:00:00') SPARK_GEN_SUBQ_3984)
[numPartitions=1] (194)
:      :      :      :      :      :      :      :      +-
PhotonShuffleExchangeSource (1315)
:      :      :      :      :      :      :      :      +-
PhotonShuffleMapStage (1314)
:      :      :      :      :      :      :      :      :
+- PhotonShuffleExchangeSink (1313)
:      :      :      :      :      :      :      :      :
+- PhotonRowToColumnar (1312)
:      :      :      :      :      :      :      :      :
+- Scan JDBCRelation((SELECT pdf_id FROM public.pdf_record) SPARK_GEN_SUBQ_3992) [numPartitions=1] (210)
:      :      :      :      :      :      :      :      +- PhotonShuffleExchangeSink
(1403)
:      :      :      :      :      :      :      :      +- PhotonGroupingAgg (1402)
:      :      :      :      :      :      :      :      +- PhotonGroupingAgg (1401)
:      :      :      :      :      :      :      :      +-
PhotonShuffleExchangeSource (1400)
:      :      :      :      :      :      :      :      +-
PhotonShuffleMapStage (1399)
:      :      :      :      :      :      :      :      +-
PhotonShuffleExchangeSink (1398)
:      :      :      :      :      :      :      :      +-
PhotonGroupingAgg (1397)
:      :      :      :      :      :      :      :      +-
PhotonProject (1396)
:      :      :      :      :      :      :      :      +-
PhotonShuffledHashJoin LeftOuter (1395)
:      :      :      :      :      :      :      :      :-
PhotonShuffleExchangeSource (1390)
:      :      :      :      :      :      :      :      +-
PhotonShuffleMapStage (1389)
:      :      :      :      :      :      :      :      :
+- PhotonShuffleExchangeSink (1388)
:      :      :      :      :      :      :      :      :
+- PhotonGroupingAgg (1387)
:      :      :      :      :      :      :      :      :
+- PhotonShuffledHashJoin LeftSemi (1386)
:      :      :      :      :      :      :      :      :
:- PhotonShuffleExchangeSource (1348)
:      :      :      :      :      :      :      :      :
:  +- PhotonShuffleMapStage (1347)
:      :      :      :      :      :      :      :      :
:  +- PhotonShuffleExchangeSink (1346)
:      :      :      :      :      :      :      :      :
:  +- PhotonGroupingAgg (1345)
:      :      :      :      :      :      :      :      :
:  +- PhotonProject (1344)
:      :      :      :      :      :      :      :      :
:  +- PhotonShuffledHashJoin Inner (1343)
:      :      :      :      :      :      :      :      :
:  :- PhotonShuffleExchangeSource (1338)
:      :      :      :      :      :      :      :      :
:  : +- PhotonShuffleMapStage (1337)
:      :      :      :      :      :      :      :      :
:  : +- PhotonShuffleExchangeSink (1336)
:      :      :      :      :      :      :      :      :
:  : +- PhotonGroupingAgg (1335)
:      :      :      :      :      :      :      :      :
:  : +- PhotonProject (1334)
:      :      :      :      :      :      :      :      :
:  : +- PhotonShuffledHashJoin Inner (1333)
:      :      :      :      :      :      :      :      :
:  : :- PhotonShuffleExchangeSource (1328)
:      :      :      :      :      :      :      :      :
:  : +- PhotonShuffleMapStage (1327)
:      :      :      :      :      :      :      :      :

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:      :      :      :      +- PhotonShuffleExchangeSink (1326)
:      :      :      :      :      :      :      :      :      :
:      :      :      :      +- PhotonRowToColumnar (1325)
:      :      :      :      :      :      :      :      :      :
:      :      :      :      +- Scan JDBCRelation((SELECT party_name, party_id, company_id, deleted_at, updated_at FROM
public.party) SPARK_GEN_SUBQ_4000) [numPartitions=1] (220)
:      :      :      :      :      :      :      :      :      :
:      :      :      :      +- PhotonShuffleExchangeSource (1332)
:      :      :      :      :      :      :      :      :      :
:      :      :      :      +- PhotonShuffleMapStage (1331)
:      :      :      :      :      :      :      :      :      :
:      :      :      :      +- PhotonShuffleExchangeSink (1330)
:      :      :      :      :      :      :      :      :      :
:      :      :      :      +- PhotonRowToColumnar (1329)
:      :      :      :      :      :      :      :      :      :
:      :      :      :      +- Scan JDBCRelation((SELECT distinct party_id, transaction_id FROM
public.transaction_party_cross_party) SPARK_GEN_SUBQ_4008) [numPartitions=1] (225)
:      :      :      :      :      :      :      :      :      :
:      :      :      :      +- PhotonShuffleExchangeSource (1342)
:      :      :      :      :      :      :      :      :      :
:      :      :      :      +- PhotonShuffleMapStage (1341)
:      :      :      :      :      :      :      :      :      :
:      :      :      :      +- PhotonShuffleExchangeSink (1340)
:      :      :      :      :      :      :      :      :      :
:      :      :      :      +- PhotonRowToColumnar (1339)
:      :      :      :      :      :      :      :      :      :
:      :      :      :      +- Scan JDBCRelation((
SELECT
  "County" as county,
  "Transaction_Type" as transaction_type,
  "FC_Transaction_Date" as fc_transaction_date,
  "FC_Recorded_Date" as fc_recorded_date,
  "FC_Cross_Party" as fc_cross_party,
  fcdateupdated,
  fctransactionid,
  "PDF_ID" as pdf_id
FROM public.transaction) SPARK_GEN_SUBQ_4016) [numPartitions=1] (234)
:      :      :      :      :      :      :      :      :      :
+- PhotonShuffleExchangeSource (1385)
:      :      :      :      :      :      :      :      :      :
+- PhotonUnionShuffleMapStage (1384)
:      :      :      :      :      :      :      :      :      :
+- PhotonUnionShuffleExchangeSink (1383)
:      :      :      :      :      :      :      :      :      :
:- PhotonShuffleExchangeSink (1365)
:      :      :      :      :      :      :      :      :      :
: +- PhotonGroupingAgg (1364)
:      :      :      :      :      :      :      :      :      :
:   +- PhotonGroupingAgg (1363)
:      :      :      :      :      :      :      :      :      :
:   +- PhotonShuffleExchangeSource (1362)
:      :      :      :      :      :      :      :      :      :
:   +- PhotonShuffleMapStage (1361)
:      :      :      :      :      :      :      :      :      :
:   +- PhotonShuffleExchangeSink (1360)
:      :      :      :      :      :      :      :      :      :
:   +- PhotonGroupingAgg (1359)
:      :      :      :      :      :      :      :      :      :
:   +- PhotonProject (1358)
:      :      :      :      :      :      :      :      :      :
:   +- PhotonShuffledHashJoin LeftSemi (1357)
:      :      :      :      :      :      :      :      :      :
:   :- PhotonShuffleExchangeSource (1352)
:      :      :      :      :      :      :      :      :      :
:   : +- PhotonShuffleMapStage (1351)
:      :      :      :      :      :      :      :      :      :
:   : +- PhotonShuffleExchangeSink (1350)
:      :      :      :      :      :      :      :      :      :
:   : +- PhotonRowToColumnar (1349)
:      :      :      :      :      :      :      :      :      :
:   : +- Scan JDBCRelation((SELECT distinct party_id, transaction_id FROM public.transaction_party_name)
SPARK_GEN_SUBQ_4024) [numPartitions=1] (243)
:      :      :      :      :      :      :      :      :      :
:   : +- PhotonShuffleExchangeSource (1356)
:      :      :      :      :      :      :      :      :      :
:   : +- PhotonShuffleMapStage (1355)
:      :      :      :      :      :      :      :      :      :
:   : +- PhotonShuffleExchangeSink (1354)
:      :      :      :      :      :      :      :      :      :
:   : +- PhotonRowToColumnar (1353)
:      :      :      :      :      :      :      :      :      :
:   : +- Scan JDBCRelation((SELECT fc_transaction_id FROM publish.transactions WHERE fc_updated_at >
'2000-04-16 12:00:00') SPARK_GEN_SUBQ_4032) [numPartitions=1] (248)

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:      :      :      :      :      :      :
+- PhotonShuffleExchangeSink (1382)
:      :      :      :      :      :      :
+- PhotonGroupingAgg (1381)
:      :      :      :      :      :      :
+- PhotonGroupingAgg (1380)
:      :      :      :      :      :      :
+- PhotonShuffleExchangeSource (1379)
:      :      :      :      :      :      :
+- PhotonShuffleMapStage (1378)
:      :      :      :      :      :      :
+- PhotonShuffleExchangeSink (1377)
:      :      :      :      :      :      :
+- PhotonGroupingAgg (1376)
:      :      :      :      :      :      :
+- PhotonProject (1375)
:      :      :      :      :      :      :
+- PhotonShuffledHashJoin LeftSemi (1374)
:      :      :      :      :      :      :
:- PhotonShuffleExchangeSource (1369)
:      :      :      :      :      :      :
: +- PhotonShuffleMapStage (1368)
:   +- PhotonShuffleExchangeSink (1367)
:     +- PhotonRowToColumnar (1366)
:       +- Scan JDBCRelation((SELECT distinct party_id, transaction_id FROM public.transaction_party_cross_party) SPARK_GEN_SUBQ_4040)
[numPartitions=1] (258)
:      :      :      :      :      :      :
+- PhotonShuffleExchangeSource (1373)
:      :      :      :      :      :      :
+- PhotonShuffleMapStage (1372)
:      :      :      :      :      :      :
+- PhotonShuffleExchangeSink (1371)
:      :      :      :      :      :      :
+- PhotonRowToColumnar (1370)
:      :      :      :      :      :      :
+- Scan JDBCRelation((SELECT fc_transaction_id FROM publish.transactions WHERE fc_updated_at > '2000-04-16 12:00:00') SPARK_GEN_SUBQ_4048)
[numPartitions=1] (263)
:      :      :      :      :      :      :
PhotonShuffleExchangeSource (1394)
:      :      :      :      :      :      :
PhotonShuffleMapStage (1393)
:      :      :      :      :      :      :
+- PhotonShuffleExchangeSink (1392)
:      :      :      :      :      :      :
+- PhotonRowToColumnar (1391)
:      :      :      :      :      :      :
+- Scan JDBCRelation((SELECT pdf_id FROM public.pdf_record) SPARK_GEN_SUBQ_4056) [numPartitions=1] (279)
:      :      :      :      :      :      :
:      :      :      :      :      :      : +- PhotonProject (1476)
:      :      :      :      :      :      : +- PhotonGroupingAgg (1475)
:      :      :      :      :      :      : +- PhotonGroupingAgg (1474)
:      :      :      :      :      :      : +- PhotonProject (1473)
:      :      :      :      :      :      : +- PhotonShuffledHashJoin Inner (1472)
:      :      :      :      :      :      : :- PhotonShuffleExchangeSource (1436)
:      :      :      :      :      :      : : +- PhotonShuffleMapStage (1435)
:      :      :      :      :      :      : :   +- PhotonShuffleExchangeSink (1434)
:      :      :      :      :      :      : :     +- PhotonGroupingAgg (1433)
:      :      :      :      :      :      : :       +- PhotonProject (1432)
:      :      :      :      :      :      : :         +- PhotonShuffledHashJoin Inner
(1431)
:      :      :      :      :      :      : :
(1426)
:      :      :      :      :      :      : :
(1425)
:      :      :      :      :      :      : :
PhotonShuffleExchangeSink (1424)
:      :      :      :      :      :      : :
(1423)
:      :      :      :      :      :      : :
PhotonShuffledHashJoin Inner (1422)
:      :      :      :      :      :      : :
PhotonShuffleExchangeSource (1417)
:      :      :      :      :      :      : :
PhotonShuffleMapStage (1416)
:      :      :      :      :      :      : :
PhotonShuffleExchangeSink (1415)
:      :      :      :      :      :      : :
PhotonRowToColumnar (1414)
:      :      :      :      :      :      : :
Scan JDBCRelation((SELECT party_name, party_id, company_id, deleted_at, updated_at FROM public.party) SPARK_GEN_SUBQ_4064)
[numPartitions=1] (299)

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:      :      :      :      :      :      :      :      +-
PhotonShuffleExchangeSource (1421)
:      :      :      :      :      :      :      :      +-
PhotonShuffleMapStage (1420)
:      :      :      :      :      :      :      :      +-
PhotonShuffleExchangeSink (1419)
:      :      :      :      :      :      :      :      +-
PhotonRowToColumnar (1418)
:      :      :      :      :      :      :      :      +-
Scan JDBCRelation((SELECT distinct party_id, transaction_id FROM public.transaction_party_cross_party) SPARK_GEN_SUBQ_4072)
[numPartitions=1] (304)
:      :      :      :      :      :      :      +- PhotonShuffleExchangeSource
(1430)
:      :      :      :      :      :      :      +- PhotonShuffleMapStage
(1429)
:      :      :      :      :      :      :      +-
PhotonShuffleExchangeSink (1428)
:      :      :      :      :      :      :      +-
PhotonRowToColumnar (1427)
:      :      :      :      :      :      :      +- Scan
JDBCRelation((
SELECT
  "County" as county,
  "Transaction_Type" as transaction_type,
  "FC_Transaction_Date" as fc_transaction_date,
  "FC_Recorded_Date" as fc_recorded_date,
  "FC_Cross_Party" as fc_cross_party,
  fcdateupdated,
  fctransactionid,
  "PDF_ID" as pdf_id
FROM public.transaction) SPARK_GEN_SUBQ_4080) [numPartitions=1] (312)
:      :      :      :      :      :      :      +- PhotonShuffleExchangeSource (1471)
:      :      :      :      :      :      :      +- PhotonUnionShuffleMapStage (1470)
:      :      :      :      :      :      :      +- PhotonUnionShuffleExchangeSink (1469)
:      :      :      :      :      :      :      :- PhotonShuffleExchangeSink (1452)
:      :      :      :      :      :      :      :      +- PhotonGroupingAgg (1451)
:      :      :      :      :      :      :      :      +- PhotonShuffleExchangeSource
(1450)
:      :      :      :      :      :      :      :      +- PhotonShuffleMapStage
(1449)
:      :      :      :      :      :      :      +-
PhotonShuffleExchangeSink (1448)
:      :      :      :      :      :      :      +- PhotonGroupingAgg
(1447)
:      :      :      :      :      :      :      +- PhotonProject
(1446)
:      :      :      :      :      :      :      +-
PhotonShuffledHashJoin LeftSemi (1445)
:      :      :      :      :      :      :      :-
PhotonShuffleExchangeSource (1440)
:      :      :      :      :      :      :      :      +-
PhotonShuffleMapStage (1439)
:      :      :      :      :      :      :      :      +-
PhotonShuffleExchangeSink (1438)
:      :      :      :      :      :      :      :      +-
PhotonRowToColumnar (1437)
:      :      :      :      :      :      :      :      +-
Scan JDBCRelation((SELECT distinct party_id, transaction_id FROM public.transaction_party_name) SPARK_GEN_SUBQ_4088) [numPartitions=1]
(322)
:      :      :      :      :      :      :      +-
PhotonShuffleExchangeSource (1444)
:      :      :      :      :      :      :      +-
PhotonShuffleMapStage (1443)
:      :      :      :      :      :      :      +-
PhotonShuffleExchangeSink (1442)
:      :      :      :      :      :      :      +-
PhotonRowToColumnar (1441)
:      :      :      :      :      :      :      +-
Scan JDBCRelation((SELECT fc_transaction_id FROM publish.transactions WHERE fc_updated_at > '2000-04-16 12:00:00') SPARK_GEN_SUBQ_4096)
[numPartitions=1] (327)
:      :      :      :      :      :      :      +- PhotonShuffleExchangeSink (1468)
:      :      :      :      :      :      :      +- PhotonGroupingAgg (1467)
:      :      :      :      :      :      :      +- PhotonShuffleExchangeSource
(1466)
:      :      :      :      :      :      :      +- PhotonShuffleMapStage
(1465)
:      :      :      :      :      :      :      +-
PhotonShuffleExchangeSink (1464)
:      :      :      :      :      :      :      +- PhotonGroupingAgg
(1463)
:      :      :      :      :      :      :      +- PhotonProject
(1462)
:      :      :      :      :      :      :      +-

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PhotonShuffledHashJoin LeftSemi (1461)
:      :      :      :      :      :      :-
PhotonShuffleExchangeSource (1456)
:      :      :      :      :      :      : +-
PhotonShuffleMapStage (1455)
:      :      :      :      :      :      : +-
PhotonShuffleExchangeSink (1454)
:      :      :      :      :      :      : +-
PhotonRowToColumnar (1453)
:      :      :      :      :      :      : +-
Scan JDBCRelation((SELECT distinct party_id, transaction_id FROM public.transaction_party_cross_party) SPARK_GEN_SUBQ_4104)
[numPartitions=1] (337)
:      :      :      :      :      :      +-
PhotonShuffleExchangeSource (1460)
:      :      :      :      :      :      +-
PhotonShuffleMapStage (1459)
:      :      :      :      :      :      +-
PhotonShuffleExchangeSink (1458)
:      :      :      :      :      :      +-
PhotonRowToColumnar (1457)
:      :      :      :      :      :      +-
Scan JDBCRelation((SELECT fc_transaction_id FROM publish.transactions WHERE fc_updated_at > '2000-04-16 12:00:00') SPARK_GEN_SUBQ_4112)
[numPartitions=1] (342)
:      :      :      :      :      +- PhotonProject (1542)
:      :      :      :      :      +- PhotonGroupingAgg (1541)
:      :      :      :      :      +- PhotonGroupingAgg (1540)
:      :      :      :      :      +- PhotonProject (1539)
:      :      :      :      :      +- PhotonShuffledHashJoin Inner (1538)
:      :      :      :      :      :- PhotonShuffleExchangeSource (1502)
:      :      :      :      :      : +- PhotonShuffleMapStage (1501)
:      :      :      :      :      : +- PhotonShuffleExchangeSink (1500)
:      :      :      :      :      : +- PhotonGroupingAgg (1499)
:      :      :      :      :      : +- PhotonProject (1498)
:      :      :      :      :      : +- PhotonShuffledHashJoin Inner (1497)
:      :      :      :      :      : :- PhotonShuffleExchangeSource (1492)
:      :      :      :      :      : +- PhotonShuffleMapStage (1491)
:      :      :      :      :      : +- PhotonShuffleExchangeSink
(1490)
:      :      :      :      :      :      +- PhotonProject (1489)
:      :      :      :      :      :      +- PhotonShuffledHashJoin
Inner (1488)
:      :      :      :      :      :      :-
PhotonShuffleExchangeSource (1483)
:      :      :      :      :      :      : +-
PhotonShuffleMapStage (1482)
:      :      :      :      :      :      : +-
PhotonShuffleExchangeSink (1481)
:      :      :      :      :      :      : +-
PhotonRowToColumnar (1480)
:      :      :      :      :      :      : +- Scan
JDBCRelation((SELECT party_name, party_id, company_id, deleted_at, updated_at FROM public.party) SPARK_GEN_SUBQ_4128) [numPartitions=1]
(363)
:      :      :      :      :      :      +-
PhotonShuffleExchangeSource (1487)
:      :      :      :      :      :      +-
PhotonShuffleMapStage (1486)
:      :      :      :      :      :      +-
PhotonShuffleExchangeSink (1485)
:      :      :      :      :      :      +-
PhotonRowToColumnar (1484)
:      :      :      :      :      :      +- Scan
JDBCRelation((SELECT distinct party_id, transaction_id FROM public.transaction_party_name) SPARK_GEN_SUBQ_4136) [numPartitions=1] (368)
:      :      :      :      :      :      +- PhotonShuffleExchangeSource (1496)
:      :      :      :      :      :      +- PhotonShuffleMapStage (1495)
:      :      :      :      :      :      +- PhotonShuffleExchangeSink
(1494)
:      :      :      :      :      :      +- PhotonRowToColumnar (1493)
:      :      :      :      :      :      +- Scan JDBCRelation((
SELECT
  "County" as county,
  "Transaction_Type" as transaction_type,
  "FC_Transaction_Date" as fc_transaction_date,
  "FC_Recorded_Date" as fc_recorded_date,
  "FC_Cross_Party" as fc_cross_party,
  fcdateupdated,
  fctransactionid,
  "PDF_ID" as pdf_id
FROM public.transaction) SPARK_GEN_SUBQ_4144) [numPartitions=1] (376)
:      :      :      :      :      +- PhotonShuffleExchangeSource (1537)
:      :      :      :      :      +- PhotonUnionShuffleMapStage (1536)
:      :      :      :      :      +- PhotonUnionShuffleExchangeSink (1535)
:      :      :      :      :      :- PhotonShuffleExchangeSink (1518)
:      :      :      :      :      : +- PhotonGroupingAgg (1517)

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:      :      :      :      :      +-
PhotonShuffleMapStage (1610)
:      :      :      :      :      +-
PhotonShuffleExchangeSink (1609)
:      :      :      :      :      +-
PhotonGroupingAgg (1608)
:      :      :      :      :      +-
PhotonShuffledHashJoin LeftSemi (1607)
:      :      :      :      :      :-
PhotonShuffleExchangeSource (1569)
:      :      :      :      :      +-
PhotonShuffleMapStage (1568)
:      :      :      :      :      :
+- PhotonShuffleExchangeSink (1567)
:      :      :      :      :      :
+- PhotonGroupingAgg (1566)
:      :      :      :      :      :
+- PhotonProject (1565)
:      :      :      :      :      :
+- PhotonShuffledHashJoin Inner (1564)
:      :      :      :      :      :
:- PhotonShuffleExchangeSource (1559)
:      :      :      :      :      :
: +- PhotonShuffleMapStage (1558)
:      :      :      :      :      :
: +- PhotonShuffleExchangeSink (1557)
:      :      :      :      :      :
: +- PhotonGroupingAgg (1556)
:      :      :      :      :      :
: +- PhotonProject (1555)
:      :      :      :      :      :
: +- PhotonShuffledHashJoin Inner (1554)
:      :      :      :      :      :
: :- PhotonShuffleExchangeSource (1549)
:      :      :      :      :      :
: +- PhotonShuffleMapStage (1548)
:      :      :      :      :      :
: +- PhotonShuffleExchangeSink (1547)
:      :      :      :      :      :
: +- PhotonRowToColumnar (1546)
:      :      :      :      :      :
: +- Scan JDBCRelation((SELECT party_name, party_id, company_id, deleted_at, updated_at FROM public.party)
SPARK_GEN_SUBQ_4192) [numPartitions=1] (427)
:      :      :      :      :      :
: +- PhotonShuffleExchangeSource (1553)
:      :      :      :      :      :
: +- PhotonShuffleMapStage (1552)
:      :      :      :      :      :
: +- PhotonShuffleExchangeSink (1551)
:      :      :      :      :      :
: +- PhotonRowToColumnar (1550)
:      :      :      :      :      :
: +- Scan JDBCRelation((SELECT distinct party_id, transaction_id FROM public.transaction_party_name)
SPARK_GEN_SUBQ_4200) [numPartitions=1] (432)
:      :      :      :      :      :
+- PhotonShuffleExchangeSource (1563)
:      :      :      :      :      :
+- PhotonShuffleMapStage (1562)
:      :      :      :      :      :
+- PhotonShuffleExchangeSink (1561)
:      :      :      :      :      :
+- PhotonRowToColumnar (1560)
:      :      :      :      :      :
+- Scan JDBCRelation((
SELECT
  "County" as county,
  "Transaction_Type" as transaction_type,
  "FC_Transaction_Date" as fc_transaction_date,
  "FC_Recorded_Date" as fc_recorded_date,
  "FC_Cross_Party" as fc_cross_party,
  fcdateupdated,
  fctransactionid,
  "PDF_ID" as pdf_id
FROM public.transaction) SPARK_GEN_SUBQ_4208) [numPartitions=1] (441)
:      :      :      :      :      +-
PhotonShuffleExchangeSource (1606)
:      :      :      :      :      +-
PhotonUnionShuffleMapStage (1605)
:      :      :      :      :      :
+- PhotonUnionShuffleExchangeSink (1604)
:      :      :      :      :      :
:- PhotonShuffleExchangeSink (1586)
:      :      :      :      :      :

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```

: +- PhotonGroupingAgg (1585)
:   :
:   +- PhotonGroupingAgg (1584)
:     :
:     +- PhotonShuffleExchangeSource (1583)
:       :
:       +- PhotonShuffleMapStage (1582)
:         :
:         +- PhotonShuffleExchangeSink (1581)
:           :
:           +- PhotonGroupingAgg (1580)
:             :
:             +- PhotonProject (1579)
:               :
:               +- PhotonShuffledHashJoin LeftSemi (1578)
:                 :
:                 :- PhotonShuffleExchangeSource (1573)
:                   :
:                   : +- PhotonShuffleMapStage (1572)
:                     :
:                     : +- PhotonShuffleExchangeSink (1571)
:                       :
:                       : +- PhotonRowToColumnar (1570)
:                         :
:                         : +- Scan JDBCRelation((SELECT distinct party_id, transaction_id FROM public.transaction_party_name)
SPARK_GEN_SUBQ_4216) [numPartitions=1] (450)
:                           :
:                           +- PhotonShuffleExchangeSource (1577)
:                             :
:                             +- PhotonShuffleMapStage (1576)
:                               :
:                               +- PhotonShuffleExchangeSink (1575)
:                                 :
:                                 +- PhotonRowToColumnar (1574)
:                                   :
:                                   +- Scan JDBCRelation((SELECT fc_transaction_id FROM publish.transactions WHERE fc_updated_at >
'2000-04-16 12:00:00') SPARK_GEN_SUBQ_4224) [numPartitions=1] (455)
:                                     :
+- PhotonShuffleExchangeSink (1603)
:   :
+- PhotonGroupingAgg (1602)
:   :
+- PhotonGroupingAgg (1601)
:   :
+- PhotonShuffleExchangeSource (1600)
:   :
+- PhotonShuffleMapStage (1599)
:   :
+- PhotonShuffleExchangeSink (1598)
:   :
+- PhotonGroupingAgg (1597)
:   :
+- PhotonProject (1596)
:   :
+- PhotonShuffledHashJoin LeftSemi (1595)
:   :
:- PhotonShuffleExchangeSource (1590)
:   :
: +- PhotonShuffleMapStage (1589)
:   :
:   +- PhotonShuffleExchangeSink (1588)
:     :
:     +- PhotonRowToColumnar (1587)
:       :
:       +- Scan JDBCRelation((SELECT distinct party_id, transaction_id FROM public.transaction_party_cross_party) SPARK_GEN_SUBQ_4232)
[numPartitions=1] (465)
:         :
+- PhotonShuffleExchangeSource (1594)
:   :
+- PhotonShuffleMapStage (1593)
:   :
+- PhotonShuffleExchangeSink (1592)
:   :
+- PhotonRowToColumnar (1591)
:   :
+- Scan JDBCRelation((SELECT fc_transaction_id FROM publish.transactions WHERE fc_updated_at > '2000-04-16 12:00:00') SPARK_GEN_SUBQ_4240)
[numPartitions=1] (470)
:   :
PhotonShuffleExchangeSource (1615)
:   :
PhotonShuffleMapStage (1614)
:   :
PhotonShuffleExchangeSink (1613)

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:      :      :      :      +-
PhotonRowToColumnar (1612)
:      :      :      :      +- Scan
JDBCRelation((SELECT pdf_id FROM public.pdf_record) SPARK_GEN_SUBQ_4248) [numPartitions=1] (486)
:      :      :      +- PhotonShuffleExchangeSource (1728)
:      :      :      +- PhotonShuffleMapStage (1727)
:      :      :      +- PhotonShuffleExchangeSink (1726)
:      :      :      +- PhotonGroupingAgg (1725)
:      :      :      +- PhotonShuffleExchangeSource (1724)
:      :      :      +- PhotonShuffleMapStage (1723)
:      :      :      +- PhotonShuffleExchangeSink (1722)
:      :      :      +- PhotonGroupingAgg (1721)
:      :      :      +- PhotonGroupingAgg (1720)
:      :      :      +- PhotonShuffleExchangeSource (1719)
:      :      :      +- PhotonShuffleMapStage (1718)
:      :      :      +- PhotonShuffleExchangeSink (1717)
:      :      :      +- PhotonGroupingAgg (1716)
:      :      :      +- PhotonGroupingAgg (1715)
:      :      :      +- PhotonShuffleExchangeSource (1714)
:      :      :      +- PhotonShuffleMapStage (1713)
:      :      :      +- PhotonShuffleExchangeSink (1712)
:      :      :      +- PhotonGroupingAgg (1711)
:      :      :      +- PhotonProject (1710)
:      :      :      +- PhotonShuffledHashJoin
LeftOuter (1709)
:      :      :      :      :- PhotonShuffleExchangeSource
(1704)
:      :      :      :      :      +- PhotonShuffleMapStage
(1703)
:      :      :      :      :      +-
PhotonShuffleExchangeSink (1702)
:      :      :      :      :      +- PhotonGroupingAgg
(1701)
:      :      :      :      :      +-
PhotonShuffledHashJoin LeftSemi (1700)
:      :      :      :      :      :-
PhotonShuffleExchangeSource (1662)
:      :      :      :      :      +-
PhotonShuffleMapStage (1661)
:      :      :      :      :      +-
PhotonShuffleExchangeSink (1660)
:      :      :      :      :      +-
PhotonGroupingAgg (1659)
:      :      :      :      :      +-
PhotonProject (1658)
+- PhotonShuffledHashJoin Inner (1657)
:      :      :      :      :      :-
:- PhotonShuffleExchangeSource (1652)
:      :      :      :      :      :-
:      +- PhotonShuffleMapStage (1651)
:      :      :      :      :      :-
:      +- PhotonShuffleExchangeSink (1650)
:      :      :      :      :      :-
:      +- PhotonGroupingAgg (1649)
:      :      :      :      :      :-
:      +- PhotonProject (1648)
:      :      :      :      :      :-
:      +- PhotonShuffledHashJoin Inner (1647)
:      :      :      :      :      :-
:      :- PhotonShuffleExchangeSource (1642)
:      :      :      :      :      :-
:      :      +- PhotonShuffleMapStage (1641)
:      :      :      :      :      :-
:      :      +- PhotonShuffleExchangeSink (1640)
:      :      :      :      :      :-
:      :      +- PhotonRowToColumnar (1639)
:      :      :      :      :      :-
:      :      +- Scan JDBCRelation((SELECT party_name, party_id, company_id, deleted_at, updated_at FROM public.party)
SPARK_GEN_SUBQ_4256) [numPartitions=1] (506)
:      :      :      :      :      :-
:      :      +- PhotonShuffleExchangeSource (1646)
:      :      :      :      :      :-
:      :      +- PhotonShuffleMapStage (1645)
:      :      :      :      :      :-
:      :      +- PhotonShuffleExchangeSink (1644)
:      :      :      :      :      :-
:      :      +- PhotonRowToColumnar (1643)
:      :      :      :      :      :-
:      :      +- Scan JDBCRelation((SELECT distinct party_id, transaction_id FROM public.transaction_party_cross_party)
SPARK_GEN_SUBQ_4264) [numPartitions=1] (511)
:      :      :      :      :      :-
+- PhotonShuffleExchangeSource (1656)

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      :           :           :           :           :
+- PhotonShuffleMapStage (1655)
      :           :           :           :           :
+- PhotonShuffleExchangeSink (1654)
      :           :           :           :           :
+- PhotonRowToColumnar (1653)
      :           :           :           :           :
+- Scan JDBCRelation((
SELECT
  "County" as county,
  "Transaction_Type" as transaction_type,
  "FC_Transaction_Date" as fc_transaction_date,
  "FC_Recorded_Date" as fc_recorded_date,
  "FC_Cross_Party" as fc_cross_party,
  fcdateupdated,
  fctransactionid,
  "PDF_ID" as pdf_id
FROM public.transaction) SPARK_GEN_SUBQ_4272) [numPartitions=1] (520)
      :           :           :           :           +-
PhotonShuffleExchangeSource (1699)
      :           :           :           :           +-
PhotonUnionShuffleMapStage (1698)
      :           :           :           :           +-
PhotonUnionShuffleExchangeSink (1697)
      :           :           :           :           :-
PhotonShuffleExchangeSink (1679)
      :           :           :           :           : +-
PhotonGroupingAgg (1678)
      :           :           :           :           :
+- PhotonGroupingAgg (1677)
      :           :           :           :           :
+- PhotonShuffleExchangeSource (1676)
      :           :           :           :           :
+- PhotonShuffleMapStage (1675)
      :           :           :           :           :
+- PhotonShuffleExchangeSink (1674)
      :           :           :           :           :
+- PhotonGroupingAgg (1673)
      :           :           :           :           :
+- PhotonProject (1672)
      :           :           :           :           :
+- PhotonShuffledHashJoin LeftSemi (1671)
      :           :           :           :           :
:- PhotonShuffleExchangeSource (1666)
      :           :           :           :           :
: +- PhotonShuffleMapStage (1665)
      :           :           :           :           :
:   +- PhotonShuffleExchangeSink (1664)
      :           :           :           :           :
:     +- PhotonRowToColumnar (1663)
      :           :           :           :           :
:       +- Scan JDBCRelation((SELECT distinct party_id, transaction_id FROM public.transaction_party_name) SPARK_GEN_SUBQ_4280)
[numPartitions=1] (529)
      :           :           :           :           :
+- PhotonShuffleExchangeSource (1670)
      :           :           :           :           :
+- PhotonShuffleMapStage (1669)
      :           :           :           :           :
+- PhotonShuffleExchangeSink (1668)
      :           :           :           :           :
+- PhotonRowToColumnar (1667)
      :           :           :           :           :
+- Scan JDBCRelation((SELECT fc_transaction_id FROM publish.transactions WHERE fc_updated_at > '2000-04-16 12:00:00') SPARK_GEN_SUBQ_4288)
[numPartitions=1] (534)
      :           :           :           :           +-
PhotonShuffleExchangeSink (1696)
      :           :           :           :           +-
PhotonGroupingAgg (1695)
      :           :           :           :           :
+- PhotonGroupingAgg (1694)
      :           :           :           :           :
+- PhotonShuffleExchangeSource (1693)
      :           :           :           :           :
+- PhotonShuffleMapStage (1692)
      :           :           :           :           :
+- PhotonShuffleExchangeSink (1691)
      :           :           :           :           :
+- PhotonGroupingAgg (1690)
      :           :           :           :           :
+- PhotonProject (1689)
      :           :           :           :           :
+- PhotonShuffledHashJoin LeftSemi (1688)
      :           :           :           :           :

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:- PhotonShuffleExchangeSource (1683)
:
:
: +- PhotonShuffleMapStage (1682)
:
: +- PhotonShuffleExchangeSink (1681)
:
: +- PhotonRowToColumnar (1680)
:
: +- Scan JDBCRelation((SELECT distinct party_id, transaction_id FROM public.transaction_party_cross_party) SPARK_GEN_SUBQ_4296)
[numPartitions=1] (544)
+- PhotonShuffleExchangeSource (1687)
+- PhotonShuffleMapStage (1686)
+- PhotonShuffleExchangeSink (1685)
+- PhotonRowToColumnar (1684)
+- Scan JDBCRelation((SELECT fc_transaction_id FROM publish.transactions WHERE fc_updated_at > '2000-04-16 12:00:00') SPARK_GEN_SUBQ_4304)
[numPartitions=1] (549)
(1708) +- PhotonShuffleExchangeSource
(1707) +- PhotonShuffleMapStage
PhotonShuffleExchangeSink (1706) +-
PhotonRowToColumnar (1705) +-
JDBCRelation((SELECT pdf_id FROM public.pdf_record) SPARK_GEN_SUBQ_4312) [numPartitions=1] (565) +- Scan
: +- PhotonShuffleExchangeSource (1916)
: +- PhotonShuffleMapStage (1915)
: +- PhotonShuffleExchangeSink (1914)
: +- PhotonProject (1913)
: +- PhotonShuffledHashJoin Inner (1912)
: +- PhotonShuffleExchangeSource (1907)
: +- PhotonShuffleMapStage (1906)
: +- PhotonShuffleExchangeSink (1905)
: +- PhotonProject (1904)
: +- PhotonFilter (1903)
: +- PhotonWindow (1902)
: +- PhotonSort (1901)
: +- PhotonShuffleExchangeSource (1900)
: +- PhotonShuffleMapStage (1899)
: +- PhotonShuffleExchangeSink (1898)
: +- PhotonProject (1897)
: +- PhotonFilter (1896)
: +- PhotonWindow (1895)
: +- PhotonSort (1894)
: +- PhotonGroupingAgg (1893)
: +- PhotonShuffleExchangeSource (1892)
: +- PhotonUnionShuffleMapStage (1891)
(1890) +- PhotonUnionShuffleExchangeSink
(1810) :- PhotonShuffleExchangeSink
: +- PhotonGroupingAgg (1809)
(1808) +- PhotonGroupingAgg
PhotonShuffleExchangeSource (1807) +-
PhotonShuffleMapStage (1806) +-
PhotonShuffleExchangeSink (1805) +-
PhotonGroupingAgg (1804) +-
PhotonProject (1803) +-
PhotonShuffledHashJoin LeftOuter (1802) +-
PhotonShuffleExchangeSource (1797) :-
+- PhotonShuffleMapStage (1796)
+- PhotonShuffleExchangeSink (1795)
+- PhotonGroupingAgg (1794)
+- PhotonShuffledHashJoin LeftSemi (1793)

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:- PhotonShuffleExchangeSource (1755)
:
:
: +- PhotonShuffleMapStage (1754)
:
: +- PhotonShuffleExchangeSink (1753)
:
: +- PhotonGroupingAgg (1752)
:
: +- PhotonProject (1751)
:
: +- PhotonShuffledHashJoin Inner (1750)
:
: :- PhotonShuffleExchangeSource (1745)
:
: +- PhotonShuffleMapStage (1744)
:
: +- PhotonShuffleExchangeSink (1743)
:
: +- PhotonGroupingAgg (1742)
:
: +- PhotonProject (1741)
:
: +- PhotonShuffledHashJoin Inner (1740)
:
: :- PhotonShuffleExchangeSource (1735)
:
: +- PhotonShuffleMapStage (1734)
:
: +- PhotonShuffleExchangeSink (1733)
:
: +- PhotonRowToColumnar (1732)
:
: +- Scan JDBCRelation((SELECT party_name, party_id, company_id, deleted_at, updated_at FROM
public.party) SPARK_GEN_SUBQ_4320) [numPartitions=1] (585)
:
: +- PhotonShuffleExchangeSource (1739)
:
: +- PhotonShuffleMapStage (1738)
:
: +- PhotonShuffleExchangeSink (1737)
:
: +- PhotonRowToColumnar (1736)
:
: +- Scan JDBCRelation((SELECT distinct party_id, transaction_id FROM
public.transaction_party_name) SPARK_GEN_SUBQ_4328) [numPartitions=1] (590)
:
: +- PhotonShuffleExchangeSource (1749)
:
: +- PhotonShuffleMapStage (1748)
:
: +- PhotonShuffleExchangeSink (1747)
:
: +- PhotonRowToColumnar (1746)
:
: +- Scan JDBCRelation((
SELECT
  "County" as county,
  "Transaction_Type" as transaction_type,
  "FC_Transaction_Date" as fc_transaction_date,
  "FC_Recorded_Date" as fc_recorded_date,
  "FC_Cross_Party" as fc_cross_party,
  fcdateupdated,
  fctransactionid,
  "PDF_ID" as pdf_id
FROM public.transaction) SPARK_GEN_SUBQ_4336) [numPartitions=1] (599)
:
+- PhotonShuffleExchangeSource (1792)
:
+- PhotonUnionShuffleMapStage (1791)
:
+- PhotonUnionShuffleExchangeSink (1790)
:
:- PhotonShuffleExchangeSink (1772)
:
: +- PhotonGroupingAgg (1771)
:
: +- PhotonGroupingAgg (1770)
:
: +- PhotonShuffleExchangeSource (1769)
:
: +- PhotonShuffleMapStage (1768)
:
: +- PhotonShuffleExchangeSink (1767)

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:      :      :      :      :      :
:      +- PhotonGroupingAgg (1766)      :      :      :
:      :      :      :      :      :
:      +- PhotonProject (1765)          :      :      :
:      :      :      :      :      :
:      +- PhotonShuffledHashJoin LeftSemi (1764)
:      :      :      :      :      :
:      :- PhotonShuffleExchangeSource (1759)
:      :      :      :      :      :
:      : +- PhotonShuffleMapStage (1758)
:      :      :      :      :      :
:      : +- PhotonShuffleExchangeSink (1757)
:      :      :      :      :      :
:      : +- PhotonRowToColumnar (1756)
:      :      :      :      :      :
:      : +- Scan JDBCRelation((SELECT distinct party_id, transaction_id FROM public.transaction_party_name)
SPARK_GEN_SUBQ_4344) [numPartitions=1] (608)
:      :      :      :      :      :
:      +- PhotonShuffleExchangeSource (1763)
:      :      :      :      :      :
:      +- PhotonShuffleMapStage (1762)
:      :      :      :      :      :
:      +- PhotonShuffleExchangeSink (1761)
:      :      :      :      :      :
:      +- PhotonRowToColumnar (1760)
:      :      :      :      :      :
:      +- Scan JDBCRelation((SELECT fc_transaction_id FROM publish.transactions WHERE fc_updated_at >
'2000-04-16 12:00:00') SPARK_GEN_SUBQ_4352) [numPartitions=1] (613)
+- PhotonShuffleExchangeSink (1789)
:      :      :      :      :      :
+- PhotonGroupingAgg (1788)
:      :      :      :      :      :
+- PhotonGroupingAgg (1787)
:      :      :      :      :      :
+- PhotonShuffleExchangeSource (1786)
:      :      :      :      :      :
+- PhotonShuffleMapStage (1785)
:      :      :      :      :      :
+- PhotonShuffleExchangeSink (1784)
:      :      :      :      :      :
+- PhotonGroupingAgg (1783)
:      :      :      :      :      :
+- PhotonProject (1782)
:      :      :      :      :      :
+- PhotonShuffledHashJoin LeftSemi (1781)
:      :      :      :      :      :
:- PhotonShuffleExchangeSource (1776)
:      :      :      :      :      :
: +- PhotonShuffleMapStage (1775)
:      :      :      :      :      :
: +- PhotonShuffleExchangeSink (1774)
:      :      :      :      :      :
: +- PhotonRowToColumnar (1773)
:      :      :      :      :      :
: +- Scan JDBCRelation((SELECT distinct party_id, transaction_id FROM public.transaction_party_cross_party) SPARK_GEN_SUBQ_4360)
[numPartitions=1] (623)
+- PhotonShuffleExchangeSource (1780)
:      :      :      :      :      :
+- PhotonShuffleMapStage (1779)
:      :      :      :      :      :
+- PhotonShuffleExchangeSink (1778)
:      :      :      :      :      :
+- PhotonRowToColumnar (1777)
:      :      :      :      :      :
+- Scan JDBCRelation((SELECT fc_transaction_id FROM publish.transactions WHERE fc_updated_at > '2000-04-16 12:00:00') SPARK_GEN_SUBQ_4368)
[numPartitions=1] (628)
PhotonShuffleExchangeSource (1801)
:      :      :      :      :      +-
+- PhotonShuffleMapStage (1800)
:      :      :      :      :      :
+- PhotonShuffleExchangeSink (1799)
:      :      :      :      :      :
+- PhotonRowToColumnar (1798)
:      :      :      :      :      :
+- Scan JDBCRelation((SELECT pdf_id FROM public.pdf_record) SPARK_GEN_SUBQ_4376) [numPartitions=1] (644)
(1889)      :      :      :      :      +- PhotonShuffleExchangeSink
:      :      :      :      :      :
:      :      :      :      :      +- PhotonGroupingAgg (1888)
:      :      :      :      :      +- PhotonGroupingAgg
(1887)

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:           :           :           +-
PhotonShuffleExchangeSource (1886)
:           :           :           +-
PhotonShuffleMapStage (1885)
:           :           :           +-
PhotonShuffleExchangeSink (1884)
:           :           :           +-
PhotonGroupingAgg (1883)
:           :           :           +-
PhotonProject (1882)
:           :           :           +-
PhotonShuffledHashJoin LeftOuter (1881)
:           :           :           :-
PhotonShuffleExchangeSource (1876)
:           :           :           :
+- PhotonShuffleMapStage (1875)
:           :           :           :
+- PhotonShuffleExchangeSink (1874)
:           :           :           :
+- PhotonGroupingAgg (1873)
:           :           :           :
+- PhotonShuffledHashJoin LeftSemi (1872)
:           :           :           :
:- PhotonShuffleExchangeSource (1834)
:           :           :           :
: +- PhotonShuffleMapStage (1833)
:           :           :           :
:   +- PhotonShuffleExchangeSink (1832)
:           :           :           :
:   +- PhotonGroupingAgg (1831)
:           :           :           :
:   +- PhotonProject (1830)
:           :           :           :
:     +- PhotonShuffledHashJoin Inner (1829)
:           :           :           :
:       :- PhotonShuffleExchangeSource (1824)
:           :           :           :
:         +- PhotonShuffleMapStage (1823)
:           :           :           :
:           +- PhotonShuffleExchangeSink (1822)
:           :           :           :
:             +- PhotonGroupingAgg (1821)
:           :           :           :
:               +- PhotonProject (1820)
:           :           :           :
:                 +- PhotonShuffledHashJoin Inner (1819)
:           :           :           :
:                   :- PhotonShuffleExchangeSource (1814)
:           :           :           :
:                       +- PhotonShuffleMapStage (1813)
:           :           :           :
:                           +- PhotonShuffleExchangeSink (1812)
:           :           :           :
:                               +- PhotonRowToColumnar (1811)
:           :           :           :
:                                   +- Scan JDBCRelation((SELECT party_name, party_id, company_id, deleted_at, updated_at FROM
public.party) SPARK_GEN_SUBQ_4384) [numPartitions=1] (654)
:           :           :           :
:                                       +- PhotonShuffleExchangeSource (1818)
:           :           :           :
:                                           +- PhotonShuffleMapStage (1817)
:           :           :           :
:                                               +- PhotonShuffleExchangeSink (1816)
:           :           :           :
:                                                   +- PhotonRowToColumnar (1815)
:           :           :           :
:                                                       +- Scan JDBCRelation((SELECT distinct party_id, transaction_id FROM
public.transaction_party_cross_party) SPARK_GEN_SUBQ_4392) [numPartitions=1] (659)
:           :           :           :
:                                       +- PhotonShuffleExchangeSource (1828)
:           :           :           :
:                                           +- PhotonShuffleMapStage (1827)
:           :           :           :
:                                               +- PhotonShuffleExchangeSink (1826)
:           :           :           :
:                                                   +- PhotonRowToColumnar (1825)
:           :           :           :
:                                                       +- Scan JDBCRelation((
SELECT
  "County" as county,
  "Transaction_Type" as transaction_type,
  "FC_Transaction_Date" as fc_transaction_date,
  "FC_Recorded_Date" as fc_recorded_date,

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"FC_Cross_Party" as fc_cross_party,
fcdateupdated,
fctransactionid,
"PDF_ID" as pdf_id
FROM public.transaction) SPARK_GEN_SUBQ_4400) [numPartitions=1] (668)
:
:
+- PhotonShuffleExchangeSource (1871)
:
+- PhotonUnionShuffleMapStage (1870)
:
+- PhotonUnionShuffleExchangeSink (1869)
:
:- PhotonShuffleExchangeSink (1851)
:
: +- PhotonGroupingAgg (1850)
:
:   +- PhotonGroupingAgg (1849)
:
:     +- PhotonShuffleExchangeSource (1848)
:
:       +- PhotonShuffleMapStage (1847)
:
:         +- PhotonShuffleExchangeSink (1846)
:
:           +- PhotonGroupingAgg (1845)
:
:             +- PhotonProject (1844)
:
:               +- PhotonShuffledHashJoin LeftSemi (1843)
:
:                 :- PhotonShuffleExchangeSource (1838)
:
:                   +- PhotonShuffleMapStage (1837)
:
:                     +- PhotonShuffleExchangeSink (1836)
:
:                       +- PhotonRowToColumnar (1835)
:
:                         +- Scan JDBCRelation((SELECT distinct party_id, transaction_id FROM public.transaction_party_name)
SPARK_GEN_SUBQ_4408) [numPartitions=1] (677)
:
:   +- PhotonShuffleExchangeSource (1842)
:
:     +- PhotonShuffleMapStage (1841)
:
:       +- PhotonShuffleExchangeSink (1840)
:
:         +- PhotonRowToColumnar (1839)
:
:           +- Scan JDBCRelation((SELECT fc_transaction_id FROM publish.transactions WHERE fc_updated_at >
'2000-04-16 12:00:00') SPARK_GEN_SUBQ_4416) [numPartitions=1] (682)
:
+- PhotonShuffleExchangeSink (1868)
:
+- PhotonGroupingAgg (1867)
:
+- PhotonGroupingAgg (1866)
:
+- PhotonShuffleExchangeSource (1865)
:
+- PhotonShuffleMapStage (1864)
:
+- PhotonShuffleExchangeSink (1863)
:
+- PhotonGroupingAgg (1862)
:
+- PhotonProject (1861)
:
+- PhotonShuffledHashJoin LeftSemi (1860)
:
:- PhotonShuffleExchangeSource (1855)
:
: +- PhotonShuffleMapStage (1854)
:
:   +- PhotonShuffleExchangeSink (1853)
:
:     +- PhotonRowToColumnar (1852)
:
:       +- Scan JDBCRelation((SELECT distinct party_id, transaction_id FROM public.transaction_party_cross_party) SPARK_GEN_SUBQ_4424)
[numPartitions=1] (692)
:
+- PhotonShuffleExchangeSource (1859)
:
:

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+- PhotonProject (1994)
:
:
+- PhotonShuffledHashJoin LeftOuter (1993)
:
:
:- PhotonShuffleExchangeSource (1988)
:
:
: +- PhotonShuffleMapStage (1987)
:
: +- PhotonShuffleExchangeSink (1986)
:
: +- PhotonGroupingAgg (1985)
:
: +- PhotonShuffledHashJoin LeftSemi (1984)
:
: :- PhotonShuffleExchangeSource (1946)
:
: +- PhotonShuffleMapStage (1945)
:
: +- PhotonShuffleExchangeSink (1944)
:
: +- PhotonGroupingAgg (1943)
:
: +- PhotonProject (1942)
:
: +- PhotonShuffledHashJoin Inner (1941)
:
: :- PhotonShuffleExchangeSource (1936)
:
: +- PhotonShuffleMapStage (1935)
:
: +- PhotonShuffleExchangeSink (1934)
:
: +- PhotonGroupingAgg (1933)
:
: +- PhotonProject (1932)
:
: +- PhotonShuffledHashJoin Inner (1931)
:
: :- PhotonShuffleExchangeSource (1926)
:
: +- PhotonShuffleMapStage (1925)
:
: +- PhotonShuffleExchangeSink (1924)
:
: +- PhotonRowToColumnar (1923)
:
: +- Scan JDBCRelation((SELECT party_name, party_id, company_id, deleted_at,
updated_at FROM public.party) SPARK_GEN_SUBQ_4456) [numPartitions=1] (748)
:
: +- PhotonShuffleExchangeSource (1930)
:
: +- PhotonShuffleMapStage (1929)
:
: +- PhotonShuffleExchangeSink (1928)
:
: +- PhotonRowToColumnar (1927)
:
: +- Scan JDBCRelation((SELECT distinct party_id, transaction_id FROM
public.transaction_party_name) SPARK_GEN_SUBQ_4464) [numPartitions=1] (753)
:
: +- PhotonShuffleExchangeSource (1940)
:
: +- PhotonShuffleMapStage (1939)
:
: +- PhotonShuffleExchangeSink (1938)
:
: +- PhotonRowToColumnar (1937)
:
: +- Scan JDBCRelation((
SELECT
"County" as county,
"Transaction_Type" as transaction_type,
"FC_Transaction_Date" as fc_transaction_date,
"FC_Recorded_Date" as fc_recorded_date,
"FC_Cross_Party" as fc_cross_party,
fcdateupdated,
fctransactionid,
"PDF_ID" as pdf_id
FROM public.transaction) SPARK_GEN_SUBQ_4472) [numPartitions=1] (762)
:
: +- PhotonShuffleExchangeSource (1983)
:
: +- PhotonUnionShuffleMapStage (1982)

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:      :      +- PhotonUnionShuffleExchangeSink (1981)      :      :
:      :      :- PhotonShuffleExchangeSink (1963)          :      :
:      :      : +- PhotonGroupingAgg (1962)                :      :
:      :      : +- PhotonGroupingAgg (1961)                :      :
:      :      : +- PhotonShuffleExchangeSource (1960)       :      :
:      :      : +- PhotonShuffleMapStage (1959)            :      :
:      :      : +- PhotonShuffleExchangeSink (1958)        :      :
:      :      : +- PhotonGroupingAgg (1957)                :      :
:      :      : +- PhotonProject (1956)                    :      :
:      :      : +- PhotonShuffledHashJoin LeftSemi (1955)   :      :
:      :      : :- PhotonShuffleExchangeSource (1950)       :      :
:      :      : : +- PhotonShuffleMapStage (1949)           :      :
:      :      : : +- PhotonShuffleExchangeSink (1948)      :      :
:      :      : : +- PhotonRowToColumnar (1947)            :      :
:      :      : : +- Scan JDBCRelation((SELECT distinct party_id, transaction_id FROM
public.transaction_party_name) SPARK_GEN_SUBQ_4480) [numPartitions=1] (771)
:      :      :      +- PhotonShuffleExchangeSource (1954)   :      :
:      :      :      +- PhotonShuffleMapStage (1953)        :      :
:      :      :      +- PhotonShuffleExchangeSink (1952)    :      :
:      :      :      +- PhotonRowToColumnar (1951)          :      :
:      :      :      +- Scan JDBCRelation((SELECT fc_transaction_id FROM publish.transactions
WHERE fc_updated_at > '2000-04-16 12:00:00') SPARK_GEN_SUBQ_4488) [numPartitions=1] (776)
:      :      :      +- PhotonShuffleExchangeSink (1980)    :      :
:      :      :      +- PhotonGroupingAgg (1979)            :      :
:      :      :      +- PhotonGroupingAgg (1978)            :      :
:      :      :      +- PhotonShuffleExchangeSource (1977)   :      :
:      :      :      +- PhotonShuffleMapStage (1976)        :      :
:      :      :      +- PhotonShuffleExchangeSink (1975)    :      :
:      :      :      +- PhotonGroupingAgg (1974)            :      :
:      :      :      +- PhotonProject (1973)                :      :
:      :      :      +- PhotonShuffledHashJoin LeftSemi (1972) :      :
:      :      :      :- PhotonShuffleExchangeSource (1967)   :      :
:      :      :      : +- PhotonShuffleMapStage (1966)       :      :
:      :      :      : +- PhotonShuffleExchangeSink (1965)   :      :
:      :      :      : +- PhotonRowToColumnar (1964)         :      :
:      :      :      : +- Scan JDBCRelation((SELECT distinct party_id, transaction_id FROM
public.transaction_party_cross_party) SPARK_GEN_SUBQ_4496) [numPartitions=1] (786)
:      :      :      :      +- PhotonShuffleExchangeSource (1971) :      :
:      :      :      :      +- PhotonShuffleMapStage (1970)   :      :
:      :      :      :      +- PhotonShuffleExchangeSink (1969) :      :
:      :      :      :      +- PhotonRowToColumnar (1968)    :      :
:      :      :      :      +- Scan JDBCRelation((SELECT fc_transaction_id FROM publish.transactions
WHERE fc_updated_at > '2000-04-16 12:00:00') SPARK_GEN_SUBQ_4504) [numPartitions=1] (791)
:      :      :      :      :

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+- PhotonShuffleExchangeSource (1992)
:
:
+- PhotonShuffleMapStage (1991)
:
:
+- PhotonShuffleExchangeSink (1990)
:
:
+- PhotonRowToColumnar (1989)
:
:
+- Scan JDBCRelation((SELECT pdf_id FROM public.pdf_record) SPARK_GEN_SUBQ_4512) [numPartitions=1] (807)
:
PhotonShuffleExchangeSink (2080)
:
PhotonGroupingAgg (2079)
:
PhotonGroupingAgg (2078)
:
PhotonShuffleExchangeSource (2077)
:
PhotonShuffleMapStage (2076)
:
PhotonShuffleExchangeSink (2075)
:
PhotonGroupingAgg (2074)
:
+- PhotonProject (2073)
:
+- PhotonShuffledHashJoin LeftOuter (2072)
:
:- PhotonShuffleExchangeSource (2067)
:
: +- PhotonShuffleMapStage (2066)
:
: +- PhotonShuffleExchangeSink (2065)
:
: +- PhotonGroupingAgg (2064)
:
: +- PhotonShuffledHashJoin LeftSemi (2063)
:
: :- PhotonShuffleExchangeSource (2025)
:
: : +- PhotonShuffleMapStage (2024)
:
: : +- PhotonShuffleExchangeSink (2023)
:
: : +- PhotonGroupingAgg (2022)
:
: : +- PhotonProject (2021)
:
: : +- PhotonShuffledHashJoin Inner (2020)
:
: : :- PhotonShuffleExchangeSource (2015)
:
: : : +- PhotonShuffleMapStage (2014)
:
: : : +- PhotonShuffleExchangeSink (2013)
:
: : : +- PhotonGroupingAgg (2012)
:
: : : +- PhotonProject (2011)
:
: : : +- PhotonShuffledHashJoin Inner (2010)
:
: : : :- PhotonShuffleExchangeSource (2005)
:
: : : : +- PhotonShuffleMapStage (2004)
:
: : : : +- PhotonShuffleExchangeSink (2003)
:
: : : : +- PhotonRowToColumnar (2002)
:
: : : : +- Scan JDBCRelation((SELECT party_name, party_id, company_id, deleted_at,
updated_at FROM public.party) SPARK_GEN_SUBQ_4520) [numPartitions=1] (817)
:
: : : : +- PhotonShuffleExchangeSource (2009)
:
: : : : +- PhotonShuffleMapStage (2008)
:
: : : : +- PhotonShuffleExchangeSink (2007)
:
: : : : +- PhotonRowToColumnar (2006)
:
: : : : +- Scan JDBCRelation((SELECT distinct party_id, transaction_id FROM
public.transaction_party_cross_party) SPARK_GEN_SUBQ_4528) [numPartitions=1] (822)

```

```

:      :      :      +- PhotonShuffleExchangeSource (2019)      :
:      :      :      +- PhotonShuffleMapStage (2018)             :
:      :      :      +- PhotonShuffleExchangeSink (2017)        :
:      :      :      +- PhotonRowToColumnar (2016)              :
:      :      :      +- Scan JDBCRelation((
SELECT
  "County" as county,
  "Transaction_Type" as transaction_type,
  "FC_Transaction_Date" as fc_transaction_date,
  "FC_Recorded_Date" as fc_recorded_date,
  "FC_Cross_Party" as fc_cross_party,
  fcdateupdated,
  fctransactionid,
  "PDF_ID" as pdf_id
FROM public.transaction) SPARK_GEN_SUBQ_4536) [numPartitions=1] (831)
:      :      :      +- PhotonShuffleExchangeSource (2062)      :
:      :      :      +- PhotonUnionShuffleMapStage (2061)        :
:      :      :      +- PhotonUnionShuffleExchangeSink (2060)    :
:      :      :      :- PhotonShuffleExchangeSink (2042)        :
:      :      :      : +- PhotonGroupingAgg (2041)              :
:      :      :      : +- PhotonGroupingAgg (2040)              :
:      :      :      : +- PhotonShuffleExchangeSource (2039)    :
:      :      :      : +- PhotonShuffleMapStage (2038)          :
:      :      :      : +- PhotonShuffleExchangeSink (2037)      :
:      :      :      : +- PhotonGroupingAgg (2036)              :
:      :      :      : +- PhotonProject (2035)                  :
:      :      :      : +- PhotonShuffledHashJoin LeftSemi (2034) :
:      :      :      : :- PhotonShuffleExchangeSource (2029)    :
:      :      :      : : +- PhotonShuffleMapStage (2028)        :
:      :      :      : : +- PhotonShuffleExchangeSink (2027)    :
:      :      :      : : +- PhotonRowToColumnar (2026)          :
:      :      :      : : +- Scan JDBCRelation((SELECT distinct party_id, transaction_id FROM
public.transaction_party_name) SPARK_GEN_SUBQ_4544) [numPartitions=1] (840)
:      :      :      : +- PhotonShuffleExchangeSource (2033)    :
:      :      :      : +- PhotonShuffleMapStage (2032)          :
:      :      :      : +- PhotonShuffleExchangeSink (2031)      :
:      :      :      : +- PhotonRowToColumnar (2030)            :
:      :      :      : +- Scan JDBCRelation((SELECT fc_transaction_id FROM publish.transactions
WHERE fc_updated_at > '2000-04-16 12:00:00') SPARK_GEN_SUBQ_4552) [numPartitions=1] (845)
:      :      :      : +- PhotonShuffleExchangeSink (2059)      :
:      :      :      : +- PhotonGroupingAgg (2058)              :
:      :      :      : +- PhotonGroupingAgg (2057)              :
:      :      :      : +- PhotonShuffleExchangeSource (2056)    :
:      :      :      : +- PhotonShuffleMapStage (2055)          :
:      :      :      : +- PhotonShuffleExchangeSink (2054)      :
:      :      :      : +- PhotonGroupingAgg (2053)              :
:      :      :      : +- PhotonProject (2052)                  :
:      :      :      :

```



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Inner (2139)
PhotonShuffleExchangeSource (2134)
PhotonShuffleMapStage (2133)
PhotonShuffleExchangeSink (2132)
PhotonGroupingAgg (2131)
PhotonProject (2130)
PhotonShuffledHashJoin Inner (2129)
PhotonShuffleExchangeSource (2124)
PhotonShuffleMapStage (2123)
+-- PhotonShuffleExchangeSink (2122)
+-- PhotonRowToColumnar (2121)
+-- Scan JDBCRelation((SELECT party_name, party_id, company_id, deleted_at, updated_at FROM public.party) SPARK_GEN_SUBQ_3552)
[numPartitions=1] (917)
PhotonShuffleExchangeSource (2128)
PhotonShuffleMapStage (2127)
+-- PhotonShuffleExchangeSink (2126)
+-- PhotonRowToColumnar (2125)
+-- Scan JDBCRelation((SELECT distinct party_id, transaction_id FROM public.transaction_party_name) SPARK_GEN_SUBQ_3560) [numPartitions=1]
(922)
PhotonShuffleExchangeSource (2138)
PhotonShuffleMapStage (2137)
PhotonShuffleExchangeSink (2136)
PhotonRowToColumnar (2135)
JDBCRelation((
SELECT
  "County" as county,
  "Transaction_Type" as transaction_type,
  "FC_Transaction_Date" as fc_transaction_date,
  "FC_Recorded_Date" as fc_recorded_date,
  "FC_Cross_Party" as fc_cross_party,
  fcdateupdated,
  fctransactionid,
  "PDF_ID" as pdf_id
FROM public.transaction) SPARK_GEN_SUBQ_3568) [numPartitions=1] (931)
+-- PhotonShuffleExchangeSource (2181)
+-- PhotonUnionShuffleMapStage (2180)
+-- PhotonUnionShuffleExchangeSink
(2179)
(2161)
+-- PhotonShuffleExchangeSink
+-- PhotonGroupingAgg (2160)
+-- PhotonGroupingAgg (2159)
PhotonShuffleExchangeSource (2158)
PhotonShuffleMapStage (2157)
PhotonShuffleExchangeSink (2156)
PhotonGroupingAgg (2155)
PhotonProject (2154)
PhotonShuffledHashJoin LeftSemi (2153)
PhotonShuffleExchangeSource (2148)
PhotonShuffleMapStage (2147)
+-- PhotonShuffleExchangeSink (2146)
+-- PhotonRowToColumnar (2145)

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+-- Scan JDBCRelation((SELECT distinct party_id, transaction_id FROM public.transaction_party_name) SPARK_GEN_SUBQ_3576) [numPartitions=1]
(940)
PhotonShuffleExchangeSource (2152)
PhotonShuffleMapStage (2151)
+-- PhotonShuffleExchangeSink (2150)
+-- PhotonRowToColumnar (2149)
+-- Scan JDBCRelation((SELECT fc_transaction_id FROM publish.transactions WHERE fc_updated_at > '2000-04-16 12:00:00') SPARK_GEN_SUBQ_3584)
[numPartitions=1] (945)
(2178)
PhotonShuffleExchangeSink
PhotonGroupingAgg (2177)
PhotonGroupingAgg (2176)
PhotonShuffleExchangeSource (2175)
PhotonShuffleMapStage (2174)
PhotonShuffleExchangeSink (2173)
PhotonGroupingAgg (2172)
PhotonProject (2171)
PhotonShuffledHashJoin LeftSemi (2170)
PhotonShuffleExchangeSource (2165)
PhotonShuffleMapStage (2164)
+-- PhotonShuffleExchangeSink (2163)
+-- PhotonRowToColumnar (2162)
+-- Scan JDBCRelation((SELECT distinct party_id, transaction_id FROM public.transaction_party_cross_party) SPARK_GEN_SUBQ_3592)
[numPartitions=1] (955)
PhotonShuffleExchangeSource (2169)
PhotonShuffleMapStage (2168)
+-- PhotonShuffleExchangeSink (2167)
+-- PhotonRowToColumnar (2166)
+-- Scan JDBCRelation((SELECT fc_transaction_id FROM publish.transactions WHERE fc_updated_at > '2000-04-16 12:00:00') SPARK_GEN_SUBQ_3600)
[numPartitions=1] (960)
PhotonShuffleExchangeSource (2190)
PhotonShuffleMapStage (2189)
PhotonShuffleExchangeSink (2188)
PhotonRowToColumnar (2187)
+-- Scan JDBCRelation((SELECT pdf_id FROM
public.pdf_record) SPARK_GEN_SUBQ_3608) [numPartitions=1] (976)
PhotonShuffleExchangeSink (2278)
PhotonGroupingAgg (2277)
PhotonGroupingAgg (2276)
PhotonShuffleExchangeSource (2275)
PhotonShuffleMapStage (2274)
PhotonShuffleExchangeSink (2273)
PhotonGroupingAgg (2272)
PhotonProject (2271)
PhotonShuffledHashJoin LeftOuter (2270)
PhotonShuffleExchangeSource (2265)
PhotonShuffleMapStage (2264)
PhotonShuffleExchangeSink (2263)
PhotonGroupingAgg (2262)
PhotonShuffledHashJoin LeftSemi (2261)
PhotonShuffleExchangeSource (2223)
PhotonShuffleMapStage (2222)
PhotonShuffleExchangeSink (2221)
PhotonGroupingAgg (2220)
PhotonProject (2219)
PhotonShuffledHashJoin
Inner (2218)
PhotonShuffleExchangeSource (2213)
PhotonShuffleMapStage (2212)

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PhotonShuffleExchangeSink (2211)           :           :           : +-
PhotonGroupingAgg (2210)                   :           :           : +-
PhotonProject (2209)                       :           :           : +-
PhotonShuffledHashJoin Inner (2208)        :           :           : +-
PhotonShuffleExchangeSource (2203)         :           :           : :-
PhotonShuffleMapStage (2202)               :           :           : +-
+- PhotonShuffleExchangeSink (2201)        :           :           :
+- PhotonRowToColumnar (2200)              :           :           :
+- Scan JDBCRelation((SELECT party_name, party_id, company_id, deleted_at, updated_at FROM public.party) SPARK_GEN_SUBQ_3616) [numPartitions=1] (986) :           :           :
PhotonShuffleExchangeSource (2207)         :           :           : +-
PhotonShuffleMapStage (2206)               :           :           : +-
+- PhotonShuffleExchangeSink (2205)        :           :           :
+- PhotonRowToColumnar (2204)              :           :           :
+- Scan JDBCRelation((SELECT distinct party_id, transaction_id FROM public.transaction_party_cross_party) SPARK_GEN_SUBQ_3624) [numPartitions=1] (991) :           :           :
PhotonShuffleExchangeSource (2217)         :           :           : +-
PhotonShuffleMapStage (2216)               :           :           : +-
PhotonShuffleExchangeSink (2215)          :           :           : +-
PhotonRowToColumnar (2214)                 :           :           : +- Scan
JDBCRelation((
SELECT
  "County" as county,
  "Transaction_Type" as transaction_type,
  "FC_Transaction_Date" as fc_transaction_date,
  "FC_Recorded_Date" as fc_recorded_date,
  "FC_Cross_Party" as fc_cross_party,
  fcdateupdated,
  fctransactionid,
  "PDF_ID" as pdf_id
FROM public.transaction) SPARK_GEN_SUBQ_3632) [numPartitions=1] (1000) :           :           : +- PhotonShuffleExchangeSource (2260)
(2258)                                     :           :           : +- PhotonUnionShuffleMapStage (2259)
(2240)                                     :           :           : +- PhotonUnionShuffleExchangeSink
                                           :           :           : :- PhotonShuffleExchangeSink
                                           :           :           : +- PhotonGroupingAgg (2239)
                                           :           :           : +- PhotonGroupingAgg (2238)
PhotonShuffleExchangeSource (2237)         :           :           : +-
PhotonShuffleMapStage (2236)               :           :           : +-
PhotonShuffleExchangeSink (2235)          :           :           : +-
PhotonGroupingAgg (2234)                   :           :           : +-
PhotonProject (2233)                       :           :           : +-
PhotonShuffledHashJoin LeftSemi (2232)     :           :           : :-
PhotonShuffleExchangeSource (2227)         :           :           : +-
PhotonShuffleMapStage (2226)               :           :           :
+- PhotonShuffleExchangeSink (2225)        :           :           :
+- PhotonRowToColumnar (2224)              :           :           :
+- Scan JDBCRelation((SELECT distinct party_id, transaction_id FROM public.transaction_party_name) SPARK_GEN_SUBQ_3640) [numPartitions=1] (1009) :           :           :
PhotonShuffleExchangeSource (2231)         :           :           : +-

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PhotonShuffleMapStage (2230) : : +-
+- PhotonShuffleExchangeSink (2229) : :
+- PhotonRowToColumnar (2228) : :
+- Scan JDBCRelation((SELECT fc_transaction_id FROM publish.transactions WHERE fc_updated_at > '2000-04-16 12:00:00') SPARK_GEN_SUBQ_3648) [numPartitions=1] (1014) : :
(2257) : +- PhotonShuffleExchangeSink
: +- PhotonGroupingAgg (2256)
: +- PhotonGroupingAgg (2255)
: +-
PhotonShuffleExchangeSource (2254) : +-
PhotonShuffleMapStage (2253) : +-
PhotonShuffleExchangeSink (2252) : +-
PhotonGroupingAgg (2251) : +-
PhotonProject (2250) : +-
PhotonShuffledHashJoin LeftSemi (2249) : +-
PhotonShuffleExchangeSource (2244) : :-
PhotonShuffleMapStage (2243) : : +-
+- PhotonShuffleExchangeSink (2242) : :
+- PhotonRowToColumnar (2241) : :
+- Scan JDBCRelation((SELECT distinct party_id, transaction_id FROM public.transaction_party_cross_party) SPARK_GEN_SUBQ_3656) [numPartitions=1] (1024) : :
PhotonShuffleExchangeSource (2248) : +-
PhotonShuffleMapStage (2247) : +-
+- PhotonShuffleExchangeSink (2246) : :
+- PhotonRowToColumnar (2245) : :
+- Scan JDBCRelation((SELECT fc_transaction_id FROM publish.transactions WHERE fc_updated_at > '2000-04-16 12:00:00') SPARK_GEN_SUBQ_3664) [numPartitions=1] (1029) : :
: +- PhotonShuffleExchangeSource (2269)
: +- PhotonShuffleMapStage (2268)
: +- PhotonShuffleExchangeSink (2267)
: +- PhotonRowToColumnar (2266)
: +- Scan JDBCRelation((SELECT pdf_id FROM
public.pdf_record) SPARK_GEN_SUBQ_3672) [numPartitions=1] (1045)

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```

(1) Scan JDBCRelation((SELECT party_name, party_id, company_id, deleted_at, updated_at FROM public.party) SPARK_GEN_SUBQ_3808) [numPartitions=1] [codegen id : 1]
Output [5]: [party_name#12417, party_id#12418, company_id#12419, deleted_at#12420, updated_at#12421]
Arguments: [party_name#12417, party_id#12418, company_id#12419, deleted_at#12420, updated_at#12421],
[StructField(party_name,StringType,true), StructField(party_id,IntegerType,true), StructField(company_id,IntegerType,true),
StructField(deleted_at,TimestampType,true), StructField(updated_at,TimestampType,true)], {NotNull(party_id)}, {NotNull(party_id)},
PushedDownOperators(None,None,None,None,List(),List()), JDBCRDD[1580] at Spark Connect - session_id: "1b4f6863-c045-4bc4-8d01-46ee376b2f58"
user_context {
  user_id: "6106180720153940"
  user_name: "anton@forecasa...., JDBCRelation((SELECT party_name, party_id, company_id, deleted_at, updated_at FROM public.party) SPARK_GEN_SUBQ_3808) [numPartitions=1], Statistics(sizeInBytes=8.0 EiB, ColumnStat: N/A)
External engine query: SELECT "party_name","party_id","company_id","deleted_at","updated_at" FROM (SELECT party_name, party_id, company_id, deleted_at, updated_at FROM public.party) SPARK_GEN_SUBQ_3808 WHERE ("party_id" IS NOT NULL)

(2) PhotonRowToColumnar
Input [5]: [party_name#12417, party_id#12418, company_id#12419, deleted_at#12420, updated_at#12421]

(3) PhotonShuffleExchangeSink
Input [5]: [party_name#12417, party_id#12418, company_id#12419, deleted_at#12420, updated_at#12421]
Arguments: hashpartitioning(party_id#12418, 200)

(4) PhotonShuffleMapStage
Input [5]: [party_name#12417, party_id#12418, company_id#12419, deleted_at#12420, updated_at#12421]
Arguments: ENSURE_REQUIREMENTS, [id=#154568]

(5) ShuffleQueryStage
Output [5]: [party_name#12417, party_id#12418, company_id#12419, deleted_at#12420, updated_at#12421]

```


Arguments: 0, Statistics(sizeInBytes=8.0 EiB, ColumnStat: N/A)

(6) Scan JDBCRelation((SELECT distinct party_id, transaction_id FROM public.transaction_party_name) SPARK_GEN_SUBQ_3816) [numPartitions=1] [codegen id : 2]

Output [2]: [party_id#12427, transaction_id#12428]

Arguments: [party_id#12427, transaction_id#12428], [StructField(party_id,IntegerType,true), StructField(transaction_id,StringType,true)], {NotNull(party_id), IsNotNull(transaction_id)}, {NotNull(party_id), IsNotNull(transaction_id)},

PushedDownOperators(None,None,None,None,List(),List()), JDBCRDD[1581] at Spark Connect - session_id: "1b4f6863-c045-4bc4-8d01-46ee376b2f58"

user_context {

user_id: "6106180720153940"

user_name: "anton@forecasa...., JDBCRelation((SELECT distinct party_id, transaction_id FROM public.transaction_party_name) SPARK_GEN_SUBQ_3816) [numPartitions=1], Statistics(sizeInBytes=8.0 EiB, ColumnStat: N/A)

External engine query: SELECT "party_id","transaction_id" FROM (SELECT distinct party_id, transaction_id FROM public.transaction_party_name) SPARK_GEN_SUBQ_3816 WHERE ("party_id" IS NOT NULL) AND ("transaction_id" IS NOT NULL)

(7) PhotonRowToColumnar

Input [2]: [party_id#12427, transaction_id#12428]

(8) PhotonShuffleExchangeSink

Input [2]: [party_id#12427, transaction_id#12428]

Arguments: hashpartitioning(party_id#12427, 200)

(9) PhotonShuffleMapStage

Input [2]: [party_id#12427, transaction_id#12428]

Arguments: ENSURE_REQUIREMENTS, [id=#154578]

(10) ShuffleQueryStage

Output [2]: [party_id#12427, transaction_id#12428]

Arguments: 1, Statistics(sizeInBytes=8.0 EiB, ColumnStat: N/A)

(11) ShuffledHashJoin

Left keys [1]: [party_id#12418]

Right keys [1]: [party_id#12427]

Join type: Inner

Join condition: None

(12) Project

Output [6]: [party_id#12418, party_name#12417, company_id#12419, deleted_at#12420, updated_at#12421, transaction_id#12428]

Input [7]: [party_name#12417, party_id#12418, company_id#12419, deleted_at#12420, updated_at#12421, party_id#12427, transaction_id#12428]

(13) HashAggregate

Input [6]: [party_id#12418, party_name#12417, company_id#12419, deleted_at#12420, updated_at#12421, transaction_id#12428]

Keys [6]: [party_name#12417, party_id#12418, company_id#12419, deleted_at#12420, transaction_id#12428, updated_at#12421]

Functions: []

Aggregate Attributes: []

Results [6]: [party_name#12417, party_id#12418, company_id#12419, deleted_at#12420, transaction_id#12428, updated_at#12421]

(14) Exchange

Input [6]: [party_name#12417, party_id#12418, company_id#12419, deleted_at#12420, transaction_id#12428, updated_at#12421]

Arguments: hashpartitioning(transaction_id#12428, 200), ENSURE_REQUIREMENTS, [plan_id=154584]

(15) Scan JDBCRelation((

SELECT

"County" as county,
"Transaction_Type" as transaction_type,
"FC_Transaction_Date" as fc_transaction_date,
"FC_Recorded_Date" as fc_recorded_date,
"FC_Cross_Party" as fc_cross_party,
fcdateupdated,
fctransactionid,
"PDF_ID" as pdf_id

FROM public.transaction) SPARK_GEN_SUBQ_3824) [numPartitions=1] [codegen id : 3]

Output [7]: [county#12431, transaction_type#12432, fc_transaction_date#12433, fc_recorded_date#12434, fcdateupdated#12436, fctransactionid#12437, pdf_id#12438]

Arguments: [county#12431, transaction_type#12432, fc_transaction_date#12433, fc_recorded_date#12434, fcdateupdated#12436, fctransactionid#12437, pdf_id#12438], [StructField(county,StringType,true), StructField(transaction_type,StringType,true), StructField(fc_transaction_date,StringType,true), StructField(fc_recorded_date,StringType,true), StructField(fcdateupdated,TimestampType,true), StructField(fctransactionid,StringType,true), StructField(pdf_id,StringType,true)], {NotNull(fctransactionid)}, {NotNull(fctransactionid)}, PushedDownOperators(None,None,None,None,List(),List()), JDBCRDD[1582] at Spark

Connect - session_id: "1b4f6863-c045-4bc4-8d01-46ee376b2f58"

user_context {

user_id: "6106180720153940"

user_name: "anton@forecasa...., JDBCRelation((SELECT

"County" as county,
"Transaction_Type" as transaction_type,
"FC_Transaction_Date" as fc_transaction_date,
"FC_Recorded_Date" as fc_recorded_date,
"FC_Cross_Party" as fc_cross_party,
fcdateupdated,
fctransactionid,
"PDF_ID" as pdf_id

```
FROM public.transaction) SPARK_GEN_SUBQ_3824) [numPartitions=1], Statistics(sizeInBytes=8.0 EiB, ColumnStat: N/A)
External engine query: SELECT
"county","transaction_type","fc_transaction_date","fc_recorded_date","fcdateupdated","fctransactionid","pdf_id" FROM (
SELECT
  "County" as county,
  "Transaction_Type" as transaction_type,
  "FC_Transaction_Date" as fc_transaction_date,
  "FC_Recorded_Date" as fc_recorded_date,
  "FC_Cross_Party" as fc_cross_party,
  fcdateupdated,
  fctransactionid,
  "PDF_ID" as pdf_id
FROM public.transaction) SPARK_GEN_SUBQ_3824 WHERE ("fctransactionid" IS NOT NULL)
```

(16) PhotonRowToColumnar

Input [7]: [county#12431, transaction_type#12432, fc_transaction_date#12433, fc_recorded_date#12434, fcdateupdated#12436, fctransactionid#12437, pdf_id#12438]

(17) PhotonShuffleExchangeSink

Input [7]: [county#12431, transaction_type#12432, fc_transaction_date#12433, fc_recorded_date#12434, fcdateupdated#12436, fctransactionid#12437, pdf_id#12438]

Arguments: hashpartitioning(fctransactionid#12437, 200)

(18) PhotonShuffleMapStage

Input [7]: [county#12431, transaction_type#12432, fc_transaction_date#12433, fc_recorded_date#12434, fcdateupdated#12436, fctransactionid#12437, pdf_id#12438]

Arguments: ENSURE_REQUIREMENTS, [id=#154592]

(19) ShuffleQueryStage

Output [7]: [county#12431, transaction_type#12432, fc_transaction_date#12433, fc_recorded_date#12434, fcdateupdated#12436, fctransactionid#12437, pdf_id#12438]

Arguments: 2, Statistics(sizeInBytes=8.0 EiB, ColumnStat: N/A)

(20) ShuffledHashJoin

Left keys [1]: [transaction_id#12428]

Right keys [1]: [fctransactionid#12437]

Join type: Inner

Join condition: None

(21) Project

Output [11]: [party_name#12417, party_id#12418, company_id#12419, deleted_at#12420, county#12431, transaction_type#12432, fc_transaction_date#12433, fc_recorded_date#12434, greatest(fcdateupdated#12436, updated_at#12421) AS fcdateupdated#12477, fctransactionid#12437, pdf_id#12438]

Input [13]: [party_name#12417, party_id#12418, company_id#12419, deleted_at#12420, transaction_id#12428, updated_at#12421, county#12431, transaction_type#12432, fc_transaction_date#12433, fc_recorded_date#12434, fcdateupdated#12436, fctransactionid#12437, pdf_id#12438]

(22) HashAggregate

Input [11]: [party_name#12417, party_id#12418, company_id#12419, deleted_at#12420, county#12431, transaction_type#12432, fc_transaction_date#12433, fc_recorded_date#12434, fcdateupdated#12477, fctransactionid#12437, pdf_id#12438]

Keys [11]: [party_name#12417, party_id#12418, company_id#12419, deleted_at#12420, county#12431, transaction_type#12432, fc_transaction_date#12433, fc_recorded_date#12434, fcdateupdated#12477, fctransactionid#12437, pdf_id#12438]

Functions: []

Aggregate Attributes: []

Results [11]: [party_name#12417, party_id#12418, company_id#12419, deleted_at#12420, county#12431, transaction_type#12432, fc_transaction_date#12433, fc_recorded_date#12434, fcdateupdated#12477, fctransactionid#12437, pdf_id#12438]

(23) Exchange

Input [11]: [party_name#12417, party_id#12418, company_id#12419, deleted_at#12420, county#12431, transaction_type#12432, fc_transaction_date#12433, fc_recorded_date#12434, fcdateupdated#12477, fctransactionid#12437, pdf_id#12438]

Arguments: hashpartitioning(party_id#12418, 200), ENSURE_REQUIREMENTS, [plan_id=154598]

(24) Scan JDBCRelation((SELECT distinct party_id, transaction_id FROM public.transaction_party_name) SPARK_GEN_SUBQ_3832)

[numPartitions=1] [codegen id : 4]

Output [2]: [party_id#12447, transaction_id#12448]

Arguments: [party_id#12447, transaction_id#12448], [StructField(party_id,IntegerType,true), StructField(transaction_id,StringType,true)], {NotNull(party_id), NotNull(transaction_id)}, {NotNull(party_id), NotNull(transaction_id)},

PushedDownOperators(None,None,None,None,List(),List()), JDBCRDD[1583] at Spark Connect - session_id: "1b4f6863-c045-4bc4-8d01-46ee376b2f58"

user_context {

user_id: "6106180720153940"

user_name: "anton@forecasa..., JDBCRelation((SELECT distinct party_id, transaction_id FROM public.transaction_party_name)

SPARK_GEN_SUBQ_3832) [numPartitions=1], Statistics(sizeInBytes=8.0 EiB, ColumnStat: N/A)

External engine query: SELECT "party_id","transaction_id" FROM (SELECT distinct party_id, transaction_id FROM

public.transaction_party_name) SPARK_GEN_SUBQ_3832 WHERE ("party_id" IS NOT NULL) AND ("transaction_id" IS NOT NULL)

(25) PhotonRowToColumnar

Input [2]: [party_id#12447, transaction_id#12448]

(26) PhotonShuffleExchangeSink

Input [2]: [party_id#12447, transaction_id#12448]

Arguments: hashpartitioning(transaction_id#12448, 200)

(27) PhotonShuffleMapStage

```
Input [2]: [party_id#12447, transaction_id#12448]
Arguments: ENSURE_REQUIREMENTS, [id=#154606]

(28) ShuffleQueryStage
Output [2]: [party_id#12447, transaction_id#12448]
Arguments: 3, Statistics(sizeInBytes=8.0 EiB, ColumnStat: N/A)

(29) Scan JDBCRelation((SELECT fc_transaction_id FROM publish.transactions WHERE fc_updated_at > '2000-04-16 12:00:00')
SPARK_GEN_SUBQ_3840) [numPartitions=1] [codegen id : 5]
Output [1]: [fc_transaction_id#12451]
Arguments: [fc_transaction_id#12451], [StructField(fc_transaction_id,StringType,true)], {IsNull(fc_transaction_id)},
{NotNull(fc_transaction_id)}, PushedDownOperators(None,None,None,None,List(),List()), JDBCRDD[1584] at Spark Connect - session_id:
"1b4f6863-c045-4bc4-8d01-46ee376b2f58"
user_context {
  user_id: "6106180720153940"
  user_name: "anton@forecasa...., JDBCRelation((SELECT fc_transaction_id FROM publish.transactions WHERE fc_updated_at > '2000-04-16
12:00:00') SPARK_GEN_SUBQ_3840) [numPartitions=1], Statistics(sizeInBytes=8.0 EiB, ColumnStat: N/A)
External engine query: SELECT "fc_transaction_id" FROM (SELECT fc_transaction_id FROM publish.transactions WHERE fc_updated_at > '2000-04-
16 12:00:00') SPARK_GEN_SUBQ_3840 WHERE ("fc_transaction_id" IS NOT NULL)

(30) PhotonRowToColumnar
Input [1]: [fc_transaction_id#12451]

(31) PhotonShuffleExchangeSink
Input [1]: [fc_transaction_id#12451]
Arguments: hashpartitioning(fc_transaction_id#12451, 200)

(32) PhotonShuffleMapStage
Input [1]: [fc_transaction_id#12451]
Arguments: ENSURE_REQUIREMENTS, [id=#154616]

(33) ShuffleQueryStage
Output [1]: [fc_transaction_id#12451]
Arguments: 4, Statistics(sizeInBytes=8.0 EiB, ColumnStat: N/A)

(34) ShuffledHashJoin
Left keys [1]: [transaction_id#12448]
Right keys [1]: [fc_transaction_id#12451]
Join type: LeftSemi
Join condition: None

(35) Project
Output [1]: [party_id#12447]
Input [2]: [party_id#12447, transaction_id#12448]

(36) HashAggregate
Input [1]: [party_id#12447]
Keys [1]: [party_id#12447]
Functions: []
Aggregate Attributes: []
Results [1]: [party_id#12447]

(37) Exchange
Input [1]: [party_id#12447]
Arguments: hashpartitioning(party_id#12447, 200), ENSURE_REQUIREMENTS, [plan_id=154622]

(38) HashAggregate
Input [1]: [party_id#12447]
Keys [1]: [party_id#12447]
Functions: []
Aggregate Attributes: []
Results [1]: [party_id#12447]

(39) Scan JDBCRelation((SELECT distinct party_id, transaction_id FROM public.transaction_party_cross_party) SPARK_GEN_SUBQ_3848)
[numPartitions=1] [codegen id : 6]
Output [2]: [party_id#12453, transaction_id#12454]
Arguments: [party_id#12453, transaction_id#12454], [StructField(party_id,IntegerType,true), StructField(transaction_id,StringType,true)],
{NotNull(party_id)}, {NotNull(transaction_id)}, {NotNull(party_id)}, {NotNull(transaction_id)},
PushedDownOperators(None,None,None,None,List(),List()), JDBCRDD[1585] at Spark Connect - session_id: "1b4f6863-c045-4bc4-8d01-
46ee376b2f58"
user_context {
  user_id: "6106180720153940"
  user_name: "anton@forecasa...., JDBCRelation((SELECT distinct party_id, transaction_id FROM public.transaction_party_cross_party)
SPARK_GEN_SUBQ_3848) [numPartitions=1], Statistics(sizeInBytes=8.0 EiB, ColumnStat: N/A)
External engine query: SELECT "party_id","transaction_id" FROM (SELECT distinct party_id, transaction_id FROM
public.transaction_party_cross_party) SPARK_GEN_SUBQ_3848 WHERE ("party_id" IS NOT NULL) AND ("transaction_id" IS NOT NULL)

(40) PhotonRowToColumnar
Input [2]: [party_id#12453, transaction_id#12454]

(41) PhotonShuffleExchangeSink
Input [2]: [party_id#12453, transaction_id#12454]
Arguments: hashpartitioning(transaction_id#12454, 200)
```

(42) PhotonShuffleMapStage
Input [2]: [party_id#12453, transaction_id#12454]
Arguments: ENSURE_REQUIREMENTS, [id=#154631]

(43) ShuffleQueryStage
Output [2]: [party_id#12453, transaction_id#12454]
Arguments: 5, Statistics(sizeInBytes=8.0 EiB, ColumnStat: N/A)

(44) Scan JDBCRelation((SELECT fc_transaction_id FROM publish.transactions WHERE fc_updated_at > '2000-04-16 12:00:00') SPARK_GEN_SUBQ_3856) [numPartitions=1] [codegen id : 7]
Output [1]: [fc_transaction_id#12457]
Arguments: [fc_transaction_id#12457], [StructField(fc_transaction_id,StringType,true)], {NotNull(fc_transaction_id)}, {NotNull(fc_transaction_id)}, PushedDownOperators(None,None,None,None,List(),List()), JDBCRDD[1586] at Spark Connect - session_id: "1b4f6863-c045-4bc4-8d01-46ee376b2f58"
user_context {
 user_id: "6106180720153940"
 user_name: "anton@forecasa...., JDBCRelation((SELECT fc_transaction_id FROM publish.transactions WHERE fc_updated_at > '2000-04-16 12:00:00') SPARK_GEN_SUBQ_3856) [numPartitions=1], Statistics(sizeInBytes=8.0 EiB, ColumnStat: N/A)
External engine query: SELECT "fc_transaction_id" FROM (SELECT fc_transaction_id FROM publish.transactions WHERE fc_updated_at > '2000-04-16 12:00:00') SPARK_GEN_SUBQ_3856 WHERE ("fc_transaction_id" IS NOT NULL)

(45) PhotonRowToColumnar
Input [1]: [fc_transaction_id#12457]

(46) PhotonShuffleExchangeSink
Input [1]: [fc_transaction_id#12457]
Arguments: hashpartitioning(fc_transaction_id#12457, 200)

(47) PhotonShuffleMapStage
Input [1]: [fc_transaction_id#12457]
Arguments: ENSURE_REQUIREMENTS, [id=#154641]

(48) ShuffleQueryStage
Output [1]: [fc_transaction_id#12457]
Arguments: 6, Statistics(sizeInBytes=8.0 EiB, ColumnStat: N/A)

(49) ShuffledHashJoin
Left keys [1]: [transaction_id#12454]
Right keys [1]: [fc_transaction_id#12457]
Join type: LeftSemi
Join condition: None

(50) Project
Output [1]: [party_id#12453]
Input [2]: [party_id#12453, transaction_id#12454]

(51) HashAggregate
Input [1]: [party_id#12453]
Keys [1]: [party_id#12453]
Functions: []
Aggregate Attributes: []
Results [1]: [party_id#12453]

(52) Exchange
Input [1]: [party_id#12453]
Arguments: hashpartitioning(party_id#12453, 200), ENSURE_REQUIREMENTS, [plan_id=154647]

(53) HashAggregate
Input [1]: [party_id#12453]
Keys [1]: [party_id#12453]
Functions: []
Aggregate Attributes: []
Results [1]: [party_id#12453]

(54) Union

(55) HashAggregate
Input [1]: [party_id#12447]
Keys [1]: [party_id#12447]
Functions: []
Aggregate Attributes: []
Results [1]: [party_id#12447]

(56) Exchange
Input [1]: [party_id#12447]
Arguments: hashpartitioning(party_id#12447, 200), ENSURE_REQUIREMENTS, [plan_id=154651]

(57) ShuffledHashJoin
Left keys [1]: [party_id#12418]
Right keys [1]: [party_id#12447]
Join type: LeftSemi
Join condition: None

(58) HashAggregate

Input [11]: [party_name#12417, party_id#12418, company_id#12419, deleted_at#12420, county#12431, transaction_type#12432, fc_transaction_date#12433, fc_recorded_date#12434, fcdateupdated#12477, fctransactionid#12437, pdf_id#12438]

Keys [11]: [party_name#12417, party_id#12418, company_id#12419, deleted_at#12420, county#12431, transaction_type#12432, fc_transaction_date#12433, fc_recorded_date#12434, fcdateupdated#12477, fctransactionid#12437, pdf_id#12438]

Functions: []

Aggregate Attributes: []

Results [11]: [party_name#12417, party_id#12418, company_id#12419, deleted_at#12420, county#12431, transaction_type#12432, fc_transaction_date#12433, fc_recorded_date#12434, fcdateupdated#12477, fctransactionid#12437, pdf_id#12438]

(59) Exchange

Input [11]: [party_name#12417, party_id#12418, company_id#12419, deleted_at#12420, county#12431, transaction_type#12432, fc_transaction_date#12433, fc_recorded_date#12434, fcdateupdated#12477, fctransactionid#12437, pdf_id#12438]

Arguments: hashpartitioning(pdf_id#12438, 200), ENSURE_REQUIREMENTS, [plan_id=154654]

(60) Scan JDBCRelation((SELECT pdf_id FROM public.pdf_record) SPARK_GEN_SUBQ_3864) [numPartitions=1] [codegen id : 8]

Output [1]: [pdf_id#12459]

Arguments: [pdf_id#12459], [StructField(pdf_id,StringType,true)], {IsNotNull(pdf_id)}, {IsNotNull(pdf_id)},

PushedDownOperators(None,None,None,None,List(),List()), JDBCRDD[1587] at Spark Connect - session_id: "1b4f6863-c045-4bc4-8d01-46ee376b2f58"

user_context {

user_id: "6106180720153940"

user_name: "anton@forecasa...., JDBCRelation((SELECT pdf_id FROM public.pdf_record) SPARK_GEN_SUBQ_3864) [numPartitions=1],

Statistics(sizeInBytes=8.0 EiB, ColumnStat: N/A)

External engine query: SELECT "pdf_id" FROM (SELECT pdf_id FROM public.pdf_record) SPARK_GEN_SUBQ_3864 WHERE ("pdf_id" IS NOT NULL)

(61) PhotonRowToColumnar

Input [1]: [pdf_id#12459]

(62) PhotonShuffleExchangeSink

Input [1]: [pdf_id#12459]

Arguments: hashpartitioning(pdf_id#12459, 200)

(63) PhotonShuffleMapStage

Input [1]: [pdf_id#12459]

Arguments: ENSURE_REQUIREMENTS, [id=#154662]

(64) ShuffleQueryStage

Output [1]: [pdf_id#12459]

Arguments: 7, Statistics(sizeInBytes=8.0 EiB, ColumnStat: N/A)

(65) ShuffledHashJoin

Left keys [1]: [pdf_id#12438]

Right keys [1]: [pdf_id#12459]

Join type: LeftOuter

Join condition: None

(66) Project

Output [11]: [party_name#12417, party_id#12418, company_id#12419, deleted_at#12420, county#12431, transaction_type#12432, fc_transaction_date#12433, fc_recorded_date#12434, fcdateupdated#12477, fctransactionid#12437, ((isnotnull(pdf_id#12459) AND (transaction_type#12432 = MORTGAGE)) <=> true) AS has_pdf#12509]

Input [12]: [party_name#12417, party_id#12418, company_id#12419, deleted_at#12420, county#12431, transaction_type#12432, fc_transaction_date#12433, fc_recorded_date#12434, fcdateupdated#12477, fctransactionid#12437, pdf_id#12438, pdf_id#12459]

(67) HashAggregate

Input [11]: [party_name#12417, party_id#12418, company_id#12419, deleted_at#12420, county#12431, transaction_type#12432, fc_transaction_date#12433, fc_recorded_date#12434, fcdateupdated#12477, fctransactionid#12437, has_pdf#12509]

Keys [11]: [party_name#12417, party_id#12418, company_id#12419, deleted_at#12420, county#12431, transaction_type#12432, fc_transaction_date#12433, fc_recorded_date#12434, fcdateupdated#12477, fctransactionid#12437, has_pdf#12509]

Functions: []

Aggregate Attributes: []

Results [11]: [party_name#12417, party_id#12418, company_id#12419, deleted_at#12420, county#12431, transaction_type#12432, fc_transaction_date#12433, fc_recorded_date#12434, fcdateupdated#12477, fctransactionid#12437, has_pdf#12509]

(68) Exchange

Input [11]: [party_name#12417, party_id#12418, company_id#12419, deleted_at#12420, county#12431, transaction_type#12432, fc_transaction_date#12433, fc_recorded_date#12434, fcdateupdated#12477, fctransactionid#12437, has_pdf#12509]

Arguments: hashpartitioning(party_name#12417, party_id#12418, company_id#12419, deleted_at#12420, county#12431, transaction_type#12432, fc_transaction_date#12433, fc_recorded_date#12434, fcdateupdated#12477, fctransactionid#12437, has_pdf#12509, 200), ENSURE_REQUIREMENTS, [plan_id=154668]

(69) HashAggregate

Input [11]: [party_name#12417, party_id#12418, company_id#12419, deleted_at#12420, county#12431, transaction_type#12432, fc_transaction_date#12433, fc_recorded_date#12434, fcdateupdated#12477, fctransactionid#12437, has_pdf#12509]

Keys [11]: [party_name#12417, party_id#12418, company_id#12419, deleted_at#12420, county#12431, transaction_type#12432, fc_transaction_date#12433, fc_recorded_date#12434, fcdateupdated#12477, fctransactionid#12437, has_pdf#12509]

Functions: []

Aggregate Attributes: []

Results [11]: [party_name#12417, party_id#12418, company_id#12419, deleted_at#12420, county#12431, transaction_type#12432, fc_transaction_date#12433, fc_recorded_date#12434, fcdateupdated#12477, fctransactionid#12437, has_pdf#12509]

(70) Scan JDBCRelation((SELECT party_name, party_id, company_id, deleted_at, updated_at FROM public.party) SPARK_GEN_SUBQ_3872)

```
[numPartitions=1] [codegen id : 9]
Output [5]: [party_name#12526, party_id#12527, company_id#12528, deleted_at#12529, updated_at#12530]
Arguments: [party_name#12526, party_id#12527, company_id#12528, deleted_at#12529, updated_at#12530],
[StructField(party_name,StringType,true), StructField(party_id,IntegerType,true), StructField(company_id,IntegerType,true),
StructField(deleted_at,TimestampType,true), StructField(updated_at,TimestampType,true)], {NotNull(party_id)}, {NotNull(party_id)},
PushedDownOperators(None,None,None,None,List(),List()), JDBCRDD[1588] at Spark Connect - session_id: "1b4f6863-c045-4bc4-8d01-
46ee376b2f58"
user_context {
  user_id: "6106180720153940"
  user_name: "anton@forecasa..., JDBCRelation((SELECT party_name, party_id, company_id, deleted_at, updated_at FROM public.party)
SPARK_GEN_SUBQ_3872) [numPartitions=1], Statistics(sizeInBytes=8.0 EiB, ColumnStat: N/A)
External engine query: SELECT "party_name","party_id","company_id","deleted_at","updated_at" FROM (SELECT party_name, party_id,
company_id, deleted_at, updated_at FROM public.party) SPARK_GEN_SUBQ_3872 WHERE ("party_id" IS NOT NULL)

(71) PhotonRowToColumnar
Input [5]: [party_name#12526, party_id#12527, company_id#12528, deleted_at#12529, updated_at#12530]

(72) PhotonShuffleExchangeSink
Input [5]: [party_name#12526, party_id#12527, company_id#12528, deleted_at#12529, updated_at#12530]
Arguments: hashpartitioning(party_id#12527, 200)

(73) PhotonShuffleMapStage
Input [5]: [party_name#12526, party_id#12527, company_id#12528, deleted_at#12529, updated_at#12530]
Arguments: ENSURE_REQUIREMENTS, [id=#154677]

(74) ShuffleQueryStage
Output [5]: [party_name#12526, party_id#12527, company_id#12528, deleted_at#12529, updated_at#12530]
Arguments: 8, Statistics(sizeInBytes=8.0 EiB, ColumnStat: N/A)

(75) Scan JDBCRelation((SELECT distinct party_id, transaction_id FROM public.transaction_party_cross_party) SPARK_GEN_SUBQ_3880)
[numPartitions=1] [codegen id : 10]
Output [2]: [party_id#12536, transaction_id#12537]
Arguments: [party_id#12536, transaction_id#12537], [StructField(party_id,IntegerType,true), StructField(transaction_id,StringType,true)],
{NotNull(party_id)}, {NotNull(transaction_id)}, {NotNull(party_id)}, {NotNull(transaction_id)},
PushedDownOperators(None,None,None,None,List(),List()), JDBCRDD[1589] at Spark Connect - session_id: "1b4f6863-c045-4bc4-8d01-
46ee376b2f58"
user_context {
  user_id: "6106180720153940"
  user_name: "anton@forecasa..., JDBCRelation((SELECT distinct party_id, transaction_id FROM public.transaction_party_cross_party)
SPARK_GEN_SUBQ_3880) [numPartitions=1], Statistics(sizeInBytes=8.0 EiB, ColumnStat: N/A)
External engine query: SELECT "party_id","transaction_id" FROM (SELECT distinct party_id, transaction_id FROM
public.transaction_party_cross_party) SPARK_GEN_SUBQ_3880 WHERE ("party_id" IS NOT NULL) AND ("transaction_id" IS NOT NULL)

(76) PhotonRowToColumnar
Input [2]: [party_id#12536, transaction_id#12537]

(77) PhotonShuffleExchangeSink
Input [2]: [party_id#12536, transaction_id#12537]
Arguments: hashpartitioning(party_id#12536, 200)

(78) PhotonShuffleMapStage
Input [2]: [party_id#12536, transaction_id#12537]
Arguments: ENSURE_REQUIREMENTS, [id=#154687]

(79) ShuffleQueryStage
Output [2]: [party_id#12536, transaction_id#12537]
Arguments: 9, Statistics(sizeInBytes=8.0 EiB, ColumnStat: N/A)

(80) ShuffledHashJoin
Left keys [1]: [party_id#12527]
Right keys [1]: [party_id#12536]
Join type: Inner
Join condition: None

(81) Project
Output [6]: [party_id#12527, party_name#12526, company_id#12528, deleted_at#12529, updated_at#12530, transaction_id#12537]
Input [7]: [party_name#12526, party_id#12527, company_id#12528, deleted_at#12529, updated_at#12530, party_id#12536, transaction_id#12537]

(82) HashAggregate
Input [6]: [party_id#12527, party_name#12526, company_id#12528, deleted_at#12529, updated_at#12530, transaction_id#12537]
Keys [6]: [party_name#12526, party_id#12527, company_id#12528, deleted_at#12529, transaction_id#12537, updated_at#12530]
Functions: []
Aggregate Attributes: []
Results [6]: [party_name#12526, party_id#12527, company_id#12528, deleted_at#12529, transaction_id#12537, updated_at#12530]

(83) Exchange
Input [6]: [party_name#12526, party_id#12527, company_id#12528, deleted_at#12529, transaction_id#12537, updated_at#12530]
Arguments: hashpartitioning(transaction_id#12537, 200), ENSURE_REQUIREMENTS, [plan_id=154693]

(84) Scan JDBCRelation((
SELECT
  "County" as county,
  "Transaction_Type" as transaction_type,
```



```

"FC_Transaction_Date" as fc_transaction_date,
"FC_Recorded_Date" as fc_recorded_date,
"FC_Cross_Party" as fc_cross_party,
fcdateupdated,
fctransactionid,
"PDF_ID" as pdf_id
FROM public.transaction) SPARK_GEN_SUBQ_3888) [numPartitions=1] [codegen id : 11]
Output [7]: [county#12540, transaction_type#12541, fc_transaction_date#12542, fc_recorded_date#12543, fcdateupdated#12545,
fctransactionid#12546, pdf_id#12547]
Arguments: [county#12540, transaction_type#12541, fc_transaction_date#12542, fc_recorded_date#12543, fcdateupdated#12545,
fctransactionid#12546, pdf_id#12547], [StructField(county,StringType,true), StructField(transaction_type,StringType,true),
StructField(fc_transaction_date,StringType,true), StructField(fc_recorded_date,StringType,true),
StructField(fcdateupdated,TimestampType,true), StructField(fctransactionid,StringType,true), StructField(pdf_id,StringType,true)],
{NotNull(fctransactionid)}, {NotNull(fctransactionid)}, PushedDownOperators(None,None,None,None,List(),List()), JDBCRDD[1590] at Spark
Connect - session_id: "1b4f6863-c045-4bc4-8d01-46ee376b2f58"
user_context {
  user_id: "6106180720153940"
  user_name: "anton@forecasa...., JDBCRelation((
SELECT
  "County" as county,
  "Transaction_Type" as transaction_type,
  "FC_Transaction_Date" as fc_transaction_date,
  "FC_Recorded_Date" as fc_recorded_date,
  "FC_Cross_Party" as fc_cross_party,
  fcdateupdated,
  fctransactionid,
  "PDF_ID" as pdf_id
FROM public.transaction) SPARK_GEN_SUBQ_3888) [numPartitions=1], Statistics(sizeInBytes=8.0 EiB, ColumnStat: N/A)
External engine query: SELECT
"county","transaction_type","fc_transaction_date","fc_recorded_date","fcdateupdated","fctransactionid","pdf_id" FROM (
SELECT
  "County" as county,
  "Transaction_Type" as transaction_type,
  "FC_Transaction_Date" as fc_transaction_date,
  "FC_Recorded_Date" as fc_recorded_date,
  "FC_Cross_Party" as fc_cross_party,
  fcdateupdated,
  fctransactionid,
  "PDF_ID" as pdf_id
FROM public.transaction) SPARK_GEN_SUBQ_3888 WHERE ("fctransactionid" IS NOT NULL)

(85) PhotonRowToColumnar
Input [7]: [county#12540, transaction_type#12541, fc_transaction_date#12542, fc_recorded_date#12543, fcdateupdated#12545,
fctransactionid#12546, pdf_id#12547]

(86) PhotonShuffleExchangeSink
Input [7]: [county#12540, transaction_type#12541, fc_transaction_date#12542, fc_recorded_date#12543, fcdateupdated#12545,
fctransactionid#12546, pdf_id#12547]
Arguments: hashpartitioning(fctransactionid#12546, 200)

(87) PhotonShuffleMapStage
Input [7]: [county#12540, transaction_type#12541, fc_transaction_date#12542, fc_recorded_date#12543, fcdateupdated#12545,
fctransactionid#12546, pdf_id#12547]
Arguments: ENSURE_REQUIREMENTS, [id=#154701]

(88) ShuffleQueryStage
Output [7]: [county#12540, transaction_type#12541, fc_transaction_date#12542, fc_recorded_date#12543, fcdateupdated#12545,
fctransactionid#12546, pdf_id#12547]
Arguments: 10, Statistics(sizeInBytes=8.0 EiB, ColumnStat: N/A)

(89) ShuffledHashJoin
Left keys [1]: [transaction_id#12537]
Right keys [1]: [fctransactionid#12546]
Join type: Inner
Join condition: None

(90) Project
Output [11]: [party_name#12526, party_id#12527, company_id#12528, deleted_at#12529, county#12540, transaction_type#12541,
fc_transaction_date#12542, fc_recorded_date#12543, greatest(fcdateupdated#12545, updated_at#12530) AS fcdateupdated#12587,
fctransactionid#12546, pdf_id#12547]
Input [13]: [party_name#12526, party_id#12527, company_id#12528, deleted_at#12529, transaction_id#12537, updated_at#12530, county#12540,
transaction_type#12541, fc_transaction_date#12542, fc_recorded_date#12543, fcdateupdated#12545, fctransactionid#12546, pdf_id#12547]

(91) HashAggregate
Input [11]: [party_name#12526, party_id#12527, company_id#12528, deleted_at#12529, county#12540, transaction_type#12541,
fc_transaction_date#12542, fc_recorded_date#12543, fcdateupdated#12587, fctransactionid#12546, pdf_id#12547]
Keys [11]: [party_name#12526, party_id#12527, company_id#12528, deleted_at#12529, county#12540, transaction_type#12541,
fc_transaction_date#12542, fc_recorded_date#12543, fcdateupdated#12587, fctransactionid#12546, pdf_id#12547]
Functions: []
Aggregate Attributes: []
Results [11]: [party_name#12526, party_id#12527, company_id#12528, deleted_at#12529, county#12540, transaction_type#12541,
fc_transaction_date#12542, fc_recorded_date#12543, fcdateupdated#12587, fctransactionid#12546, pdf_id#12547]

```

(92) Exchange

Input [11]: [party_name#12526, party_id#12527, company_id#12528, deleted_at#12529, county#12540, transaction_type#12541, fc_transaction_date#12542, fc_recorded_date#12543, fcdateupdated#12587, fctransactionid#12546, pdf_id#12547]
Arguments: hashpartitioning(party_id#12527, 200), ENSURE_REQUIREMENTS, [plan_id=154707]

(93) Scan JDBCRelation((SELECT distinct party_id, transaction_id FROM public.transaction_party_name) SPARK_GEN_SUBQ_3896)
[numPartitions=1] [codegen id : 12]

Output [2]: [party_id#12556, transaction_id#12557]

Arguments: [party_id#12556, transaction_id#12557], [StructField(party_id,IntegerType,true), StructField(transaction_id,StringType,true)], {NotNull(party_id), NotNull(transaction_id)}, {NotNull(party_id), NotNull(transaction_id)}, PushedDownOperators(None,None,None,None,List(),List()), JDBCRDD[1591] at Spark Connect - session_id: "1b4f6863-c045-4bc4-8d01-46ee376b2f58"

user_context {

user_id: "6106180720153940"
user_name: "anton@forecasa...., JDBCRelation((SELECT distinct party_id, transaction_id FROM public.transaction_party_name) SPARK_GEN_SUBQ_3896) [numPartitions=1], Statistics(sizeInBytes=8.0 EiB, ColumnStat: N/A)

External engine query: SELECT "party_id","transaction_id" FROM (SELECT distinct party_id, transaction_id FROM public.transaction_party_name) SPARK_GEN_SUBQ_3896 WHERE ("party_id" IS NOT NULL) AND ("transaction_id" IS NOT NULL)

(94) PhotonRowToColumnar

Input [2]: [party_id#12556, transaction_id#12557]

(95) PhotonShuffleExchangeSink

Input [2]: [party_id#12556, transaction_id#12557]

Arguments: hashpartitioning(transaction_id#12557, 200)

(96) PhotonShuffleMapStage

Input [2]: [party_id#12556, transaction_id#12557]

Arguments: ENSURE_REQUIREMENTS, [id=#154715]

(97) ShuffleQueryStage

Output [2]: [party_id#12556, transaction_id#12557]

Arguments: 11, Statistics(sizeInBytes=8.0 EiB, ColumnStat: N/A)

(98) Scan JDBCRelation((SELECT fc_transaction_id FROM publish.transactions WHERE fc_updated_at > '2000-04-16 12:00:00') SPARK_GEN_SUBQ_3904) [numPartitions=1] [codegen id : 13]

Output [1]: [fc_transaction_id#12560]

Arguments: [fc_transaction_id#12560], [StructField(fc_transaction_id,StringType,true)], {NotNull(fc_transaction_id)}, {NotNull(fc_transaction_id)}, PushedDownOperators(None,None,None,None,List(),List()), JDBCRDD[1592] at Spark Connect - session_id: "1b4f6863-c045-4bc4-8d01-46ee376b2f58"

user_context {

user_id: "6106180720153940"
user_name: "anton@forecasa...., JDBCRelation((SELECT fc_transaction_id FROM publish.transactions WHERE fc_updated_at > '2000-04-16 12:00:00') SPARK_GEN_SUBQ_3904) [numPartitions=1], Statistics(sizeInBytes=8.0 EiB, ColumnStat: N/A)

External engine query: SELECT "fc_transaction_id" FROM (SELECT fc_transaction_id FROM publish.transactions WHERE fc_updated_at > '2000-04-16 12:00:00') SPARK_GEN_SUBQ_3904 WHERE ("fc_transaction_id" IS NOT NULL)

(99) PhotonRowToColumnar

Input [1]: [fc_transaction_id#12560]

(100) PhotonShuffleExchangeSink

Input [1]: [fc_transaction_id#12560]

Arguments: hashpartitioning(fc_transaction_id#12560, 200)

(101) PhotonShuffleMapStage

Input [1]: [fc_transaction_id#12560]

Arguments: ENSURE_REQUIREMENTS, [id=#154725]

(102) ShuffleQueryStage

Output [1]: [fc_transaction_id#12560]

Arguments: 12, Statistics(sizeInBytes=8.0 EiB, ColumnStat: N/A)

(103) ShuffledHashJoin

Left keys [1]: [transaction_id#12557]

Right keys [1]: [fc_transaction_id#12560]

Join type: LeftSemi

Join condition: None

(104) Project

Output [1]: [party_id#12556]

Input [2]: [party_id#12556, transaction_id#12557]

(105) HashAggregate

Input [1]: [party_id#12556]

Keys [1]: [party_id#12556]

Functions: []

Aggregate Attributes: []

Results [1]: [party_id#12556]

(106) Exchange

Input [1]: [party_id#12556]

Arguments: hashpartitioning(party_id#12556, 200), ENSURE_REQUIREMENTS, [plan_id=154731]


```
(107) HashAggregate
Input [1]: [party_id#12556]
Keys [1]: [party_id#12556]
Functions: []
Aggregate Attributes: []
Results [1]: [party_id#12556]

(108) Scan JDBCRelation((SELECT distinct party_id, transaction_id FROM public.transaction_party_cross_party) SPARK_GEN_SUBQ_3912)
[numPartitions=1] [codegen id : 14]
Output [2]: [party_id#12562, transaction_id#12563]
Arguments: [party_id#12562, transaction_id#12563], [StructField(party_id,IntegerType,true), StructField(transaction_id,StringType,true)],
{NotNull(party_id), NotNull(transaction_id)}, {NotNull(party_id), NotNull(transaction_id)},
PushedDownOperators(None,None,None,None,List(),List()), JDBCRDD[1593] at Spark Connect - session_id: "1b4f6863-c045-4bc4-8d01-46ee376b2f58"
user_context {
  user_id: "6106180720153940"
  user_name: "anton@forecasa...., JDBCRelation((SELECT distinct party_id, transaction_id FROM public.transaction_party_cross_party)
SPARK_GEN_SUBQ_3912) [numPartitions=1], Statistics(sizeInBytes=8.0 EiB, ColumnStat: N/A)
External engine query: SELECT "party_id","transaction_id" FROM (SELECT distinct party_id, transaction_id FROM
public.transaction_party_cross_party) SPARK_GEN_SUBQ_3912 WHERE ("party_id" IS NOT NULL) AND ("transaction_id" IS NOT NULL)

(109) PhotonRowToColumnar
Input [2]: [party_id#12562, transaction_id#12563]

(110) PhotonShuffleExchangeSink
Input [2]: [party_id#12562, transaction_id#12563]
Arguments: hashpartitioning(transaction_id#12563, 200)

(111) PhotonShuffleMapStage
Input [2]: [party_id#12562, transaction_id#12563]
Arguments: ENSURE_REQUIREMENTS, [id=#154740]

(112) ShuffleQueryStage
Output [2]: [party_id#12562, transaction_id#12563]
Arguments: 13, Statistics(sizeInBytes=8.0 EiB, ColumnStat: N/A)

(113) Scan JDBCRelation((SELECT fc_transaction_id FROM publish.transactions WHERE fc_updated_at > '2000-04-16 12:00:00')
SPARK_GEN_SUBQ_3920) [numPartitions=1] [codegen id : 15]
Output [1]: [fc_transaction_id#12566]
Arguments: [fc_transaction_id#12566], [StructField(fc_transaction_id,StringType,true)], {NotNull(fc_transaction_id)},
{NotNull(fc_transaction_id)}, PushedDownOperators(None,None,None,None,List(),List()), JDBCRDD[1594] at Spark Connect - session_id:
"1b4f6863-c045-4bc4-8d01-46ee376b2f58"
user_context {
  user_id: "6106180720153940"
  user_name: "anton@forecasa...., JDBCRelation((SELECT fc_transaction_id FROM publish.transactions WHERE fc_updated_at > '2000-04-16
12:00:00') SPARK_GEN_SUBQ_3920) [numPartitions=1], Statistics(sizeInBytes=8.0 EiB, ColumnStat: N/A)
External engine query: SELECT "fc_transaction_id" FROM (SELECT fc_transaction_id FROM publish.transactions WHERE fc_updated_at > '2000-04-
16 12:00:00') SPARK_GEN_SUBQ_3920 WHERE ("fc_transaction_id" IS NOT NULL)

(114) PhotonRowToColumnar
Input [1]: [fc_transaction_id#12566]

(115) PhotonShuffleExchangeSink
Input [1]: [fc_transaction_id#12566]
Arguments: hashpartitioning(fc_transaction_id#12566, 200)

(116) PhotonShuffleMapStage
Input [1]: [fc_transaction_id#12566]
Arguments: ENSURE_REQUIREMENTS, [id=#154750]

(117) ShuffleQueryStage
Output [1]: [fc_transaction_id#12566]
Arguments: 14, Statistics(sizeInBytes=8.0 EiB, ColumnStat: N/A)

(118) ShuffledHashJoin
Left keys [1]: [transaction_id#12563]
Right keys [1]: [fc_transaction_id#12566]
Join type: LeftSemi
Join condition: None

(119) Project
Output [1]: [party_id#12562]
Input [2]: [party_id#12562, transaction_id#12563]

(120) HashAggregate
Input [1]: [party_id#12562]
Keys [1]: [party_id#12562]
Functions: []
Aggregate Attributes: []
Results [1]: [party_id#12562]

(121) Exchange
Input [1]: [party_id#12562]
```

Arguments: hashpartitioning(party_id#12562, 200), ENSURE_REQUIREMENTS, [plan_id=154756]

(122) HashAggregate
Input [1]: [party_id#12562]
Keys [1]: [party_id#12562]
Functions: []
Aggregate Attributes: []
Results [1]: [party_id#12562]

(123) Union

(124) HashAggregate
Input [1]: [party_id#12556]
Keys [1]: [party_id#12556]
Functions: []
Aggregate Attributes: []
Results [1]: [party_id#12556]

(125) Exchange
Input [1]: [party_id#12556]
Arguments: hashpartitioning(party_id#12556, 200), ENSURE_REQUIREMENTS, [plan_id=154760]

(126) ShuffledHashJoin
Left keys [1]: [party_id#12527]
Right keys [1]: [party_id#12556]
Join type: LeftSemi
Join condition: None

(127) HashAggregate
Input [11]: [party_name#12526, party_id#12527, company_id#12528, deleted_at#12529, county#12540, transaction_type#12541, fc_transaction_date#12542, fc_recorded_date#12543, fcdateupdated#12587, fctransactionid#12546, pdf_id#12547]
Keys [11]: [party_name#12526, party_id#12527, company_id#12528, deleted_at#12529, county#12540, transaction_type#12541, fc_transaction_date#12542, fc_recorded_date#12543, fcdateupdated#12587, fctransactionid#12546, pdf_id#12547]
Functions: []
Aggregate Attributes: []
Results [11]: [party_name#12526, party_id#12527, company_id#12528, deleted_at#12529, county#12540, transaction_type#12541, fc_transaction_date#12542, fc_recorded_date#12543, fcdateupdated#12587, fctransactionid#12546, pdf_id#12547]

(128) Exchange
Input [11]: [party_name#12526, party_id#12527, company_id#12528, deleted_at#12529, county#12540, transaction_type#12541, fc_transaction_date#12542, fc_recorded_date#12543, fcdateupdated#12587, fctransactionid#12546, pdf_id#12547]
Arguments: hashpartitioning(pdf_id#12547, 200), ENSURE_REQUIREMENTS, [plan_id=154763]

(129) Scan JDBCRelation((SELECT pdf_id FROM public.pdf_record) SPARK_GEN_SUBQ_3928) [numPartitions=1] [codegen id : 16]
Output [1]: [pdf_id#12568]
Arguments: [pdf_id#12568], [StructField(pdf_id,StringType,true)], {IsNotNull(pdf_id)}, {IsNotNull(pdf_id)},
PushedDownOperators(None,None,None,None,List(),List()), JDBCRDD[1595] at Spark Connect - session_id: "1b4f6863-c045-4bc4-8d01-46ee376b2f58"
user_context {
 user_id: "6106180720153940"
 user_name: "anton@forecasa...., JDBCRelation((SELECT pdf_id FROM public.pdf_record) SPARK_GEN_SUBQ_3928) [numPartitions=1],
Statistics(sizeInBytes=8.0 EiB, ColumnStat: N/A)
External engine query: SELECT "pdf_id" FROM (SELECT pdf_id FROM public.pdf_record) SPARK_GEN_SUBQ_3928 WHERE ("pdf_id" IS NOT NULL)

(130) PhotonRowToColumnar
Input [1]: [pdf_id#12568]

(131) PhotonShuffleExchangeSink
Input [1]: [pdf_id#12568]
Arguments: hashpartitioning(pdf_id#12568, 200)

(132) PhotonShuffleMapStage
Input [1]: [pdf_id#12568]
Arguments: ENSURE_REQUIREMENTS, [id=#154771]

(133) ShuffleQueryStage
Output [1]: [pdf_id#12568]
Arguments: 15, Statistics(sizeInBytes=8.0 EiB, ColumnStat: N/A)

(134) ShuffledHashJoin
Left keys [1]: [pdf_id#12547]
Right keys [1]: [pdf_id#12568]
Join type: LeftOuter
Join condition: None

(135) Project
Output [11]: [party_name#12526, party_id#12527, company_id#12528, deleted_at#12529, county#12540, transaction_type#12541, fc_transaction_date#12542, fc_recorded_date#12543, fcdateupdated#12587, fctransactionid#12546, ((isnotnull(pdf_id#12568) AND (transaction_type#12541 = MORTGAGE)) <=> true) AS has_pdf#12621]
Input [12]: [party_name#12526, party_id#12527, company_id#12528, deleted_at#12529, county#12540, transaction_type#12541, fc_transaction_date#12542, fc_recorded_date#12543, fcdateupdated#12587, fctransactionid#12546, pdf_id#12547, pdf_id#12568]

(136) HashAggregate

Input [11]: [party_name#12526, party_id#12527, company_id#12528, deleted_at#12529, county#12540, transaction_type#12541, fc_transaction_date#12542, fc_recorded_date#12543, fcdateupdated#12587, fctransactionid#12546, has_pdf#12621]
Keys [11]: [party_name#12526, party_id#12527, company_id#12528, deleted_at#12529, county#12540, transaction_type#12541, fc_transaction_date#12542, fc_recorded_date#12543, fcdateupdated#12587, fctransactionid#12546, has_pdf#12621]
Functions: []
Aggregate Attributes: []
Results [11]: [party_name#12526, party_id#12527, company_id#12528, deleted_at#12529, county#12540, transaction_type#12541, fc_transaction_date#12542, fc_recorded_date#12543, fcdateupdated#12587, fctransactionid#12546, has_pdf#12621]

(137) Exchange

Input [11]: [party_name#12526, party_id#12527, company_id#12528, deleted_at#12529, county#12540, transaction_type#12541, fc_transaction_date#12542, fc_recorded_date#12543, fcdateupdated#12587, fctransactionid#12546, has_pdf#12621]
Arguments: hashpartitioning(party_name#12526, party_id#12527, company_id#12528, deleted_at#12529, county#12540, transaction_type#12541, fc_transaction_date#12542, fc_recorded_date#12543, fcdateupdated#12587, fctransactionid#12546, has_pdf#12621, 200), ENSURE_REQUIREMENTS, [plan_id=154777]

(138) HashAggregate

Input [11]: [party_name#12526, party_id#12527, company_id#12528, deleted_at#12529, county#12540, transaction_type#12541, fc_transaction_date#12542, fc_recorded_date#12543, fcdateupdated#12587, fctransactionid#12546, has_pdf#12621]
Keys [11]: [party_name#12526, party_id#12527, company_id#12528, deleted_at#12529, county#12540, transaction_type#12541, fc_transaction_date#12542, fc_recorded_date#12543, fcdateupdated#12587, fctransactionid#12546, has_pdf#12621]
Functions: []
Aggregate Attributes: []
Results [11]: [party_name#12526, party_id#12527, company_id#12528, deleted_at#12529, county#12540, transaction_type#12541, fc_transaction_date#12542, fc_recorded_date#12543, fcdateupdated#12587, fctransactionid#12546, has_pdf#12621]

(139) Union

(140) HashAggregate

Input [11]: [party_name#12417, party_id#12418, company_id#12419, deleted_at#12420, county#12431, transaction_type#12432, fc_transaction_date#12433, fc_recorded_date#12434, fcdateupdated#12477, fctransactionid#12437, has_pdf#12509]
Keys [11]: [party_name#12417, party_id#12418, company_id#12419, deleted_at#12420, county#12431, transaction_type#12432, fc_transaction_date#12433, fc_recorded_date#12434, fcdateupdated#12477, fctransactionid#12437, has_pdf#12509]
Functions: []
Aggregate Attributes: []
Results [11]: [party_name#12417, party_id#12418, company_id#12419, deleted_at#12420, county#12431, transaction_type#12432, fc_transaction_date#12433, fc_recorded_date#12434, fcdateupdated#12477, fctransactionid#12437, has_pdf#12509]

(141) Exchange

Input [11]: [party_name#12417, party_id#12418, company_id#12419, deleted_at#12420, county#12431, transaction_type#12432, fc_transaction_date#12433, fc_recorded_date#12434, fcdateupdated#12477, fctransactionid#12437, has_pdf#12509]
Arguments: hashpartitioning(party_name#12417, party_id#12418, company_id#12419, deleted_at#12420, county#12431, transaction_type#12432, fc_transaction_date#12433, fc_recorded_date#12434, fcdateupdated#12477, fctransactionid#12437, has_pdf#12509, 200), ENSURE_REQUIREMENTS, [plan_id=154781]

(142) HashAggregate

Input [11]: [party_name#12417, party_id#12418, company_id#12419, deleted_at#12420, county#12431, transaction_type#12432, fc_transaction_date#12433, fc_recorded_date#12434, fcdateupdated#12477, fctransactionid#12437, has_pdf#12509]
Keys [11]: [party_name#12417, party_id#12418, company_id#12419, deleted_at#12420, county#12431, transaction_type#12432, fc_transaction_date#12433, fc_recorded_date#12434, fcdateupdated#12477, fctransactionid#12437, has_pdf#12509]
Functions: []
Aggregate Attributes: []
Results [6]: [party_name#12417, party_id#12418, company_id#12419, deleted_at#12420, transaction_type#12432, has_pdf#12509]

(143) HashAggregate

Input [6]: [party_name#12417, party_id#12418, company_id#12419, deleted_at#12420, transaction_type#12432, has_pdf#12509]
Keys [4]: [party_name#12417, party_id#12418, company_id#12419, Transaction_Type#12432]
Functions [3]: [partial_min(deleted_at#12420) AS min#14201, partial_max(has_pdf#12509) AS max#14203, partial_count(1) AS count#14205L]
Aggregate Attributes [3]: [min#14201, max#14203, count#14205L]
Results [7]: [party_name#12417, party_id#12418, company_id#12419, Transaction_Type#12432, min#14201, max#14203, count#14205L]

(144) Exchange

Input [7]: [party_name#12417, party_id#12418, company_id#12419, Transaction_Type#12432, min#14201, max#14203, count#14205L]
Arguments: hashpartitioning(party_name#12417, party_id#12418, company_id#12419, Transaction_Type#12432, 200), ENSURE_REQUIREMENTS, [plan_id=154784]

(145) HashAggregate

Input [7]: [party_name#12417, party_id#12418, company_id#12419, Transaction_Type#12432, min#14201, max#14203, count#14205L]
Keys [4]: [party_name#12417, party_id#12418, company_id#12419, Transaction_Type#12432]
Functions [3]: [finalmerge_min(merge min#14201) AS min(deleted_at#12420)#14059, finalmerge_max(merge max#14203) AS max(has_pdf#12509)#14060, finalmerge_count(merge count#14205L) AS count(1)#14046L]
Aggregate Attributes [3]: [min(deleted_at#12420)#14059, max(has_pdf#12509)#14060, count(1)#14046L]
Results [12]: [party_name#12417, party_id#12418, company_id#12419, min(deleted_at#12420)#14059 AS deleted_at#12639, max(has_pdf#12509)#14060 AS has_pdf#12640, CASE WHEN (Transaction_Type#12432 = MORTGAGE) THEN count(1)#14046L END AS Mortgage Transactions#12641L, CASE WHEN (Transaction_Type#12432 = DEED) THEN count(1)#14046L END AS Deed Transactions#12642L, CASE WHEN (Transaction_Type#12432 = RELEASE) THEN count(1)#14046L END AS Satisfaction of Mortgage Transactions#12643L, CASE WHEN (Transaction_Type#12432 = ASSIGNMENT) THEN count(1)#14046L END AS Assignment of Mortgage Transactions#12644L, CASE WHEN (Transaction_Type#12432 = LIS PENDENS) THEN count(1)#14046L END AS lis_pendens_transactions#12645L, CASE WHEN (Transaction_Type#12432 = JUDGMENT) THEN count(1)#14046L END AS judgment_transactions#12646L, CASE WHEN (Transaction_Type#12432 = LOAN MODIFICATION) THEN count(1)#14046L END AS loan_modification_transactions#12647L]

(146) HashAggregate

Input [12]: [party_name#12417, party_id#12418, company_id#12419, deleted_at#12639, has_pdf#12640, Mortgage Transactions#12641L, Deed

Transactions#12642L, Satisfaction of Mortgage Transactions#12643L, Assignment of Mortgage Transactions#12644L, lis_pendens_transactions#12645L, judgment_transactions#12646L, loan_modification_transactions#12647L]
Keys [3]: [party_name#12417, party_id#12418, company_id#12419]
Functions [9]: [partial_min(deleted_at#12639) AS min#14183, partial_max(has_pdf#12640) AS max#14185, partial_sum(Mortgage Transactions#12641L) AS sum#14187L, partial_sum(Deed Transactions#12642L) AS sum#14189L, partial_sum(Satisfaction of Mortgage Transactions#12643L) AS sum#14191L, partial_sum(Assignment of Mortgage Transactions#12644L) AS sum#14193L, partial_sum(lis_pendens_transactions#12645L) AS sum#14195L, partial_sum(judgment_transactions#12646L) AS sum#14197L, partial_sum(loan_modification_transactions#12647L) AS sum#14199L]
Aggregate Attributes [9]: [min#14182, max#14184, sum#14186L, sum#14188L, sum#14190L, sum#14192L, sum#14194L, sum#14196L, sum#14198L]
Results [12]: [party_name#12417, party_id#12418, company_id#12419, min#14183, max#14185, sum#14187L, sum#14189L, sum#14191L, sum#14193L, sum#14195L, sum#14197L, sum#14199L]

(147) Exchange

Input [12]: [party_name#12417, party_id#12418, company_id#12419, min#14183, max#14185, sum#14187L, sum#14189L, sum#14191L, sum#14193L, sum#14195L, sum#14197L, sum#14199L]
Arguments: hashpartitioning(party_name#12417, party_id#12418, company_id#12419, 200), ENSURE_REQUIREMENTS, [plan_id=154787]

(148) HashAggregate

Input [12]: [party_name#12417, party_id#12418, company_id#12419, min#14183, max#14185, sum#14187L, sum#14189L, sum#14191L, sum#14193L, sum#14195L, sum#14197L, sum#14199L]
Keys [3]: [party_name#12417, party_id#12418, company_id#12419]
Functions [9]: [finalmerge_min(merge min#14183) AS min(deleted_at#12639)#14068, finalmerge_max(merge max#14185) AS max(has_pdf#12640)#14069, finalmerge_sum(merge sum#14187L) AS sum(Mortgage Transactions#12641L)#14070L, finalmerge_sum(merge sum#14189L) AS sum(Deed Transactions#12642L)#14071L, finalmerge_sum(merge sum#14191L) AS sum(Satisfaction of Mortgage Transactions#12643L)#14072L, finalmerge_sum(merge sum#14193L) AS sum(Assignment of Mortgage Transactions#12644L)#14073L, finalmerge_sum(merge sum#14195L) AS sum(lis_pendens_transactions#12645L)#14074L, finalmerge_sum(merge sum#14197L) AS sum(judgment_transactions#12646L)#14075L, finalmerge_sum(merge sum#14199L) AS sum(loan_modification_transactions#12647L)#14076L]
Aggregate Attributes [9]: [min(deleted_at#12639)#14068, max(has_pdf#12640)#14069, sum(Mortgage Transactions#12641L)#14070L, sum(Deed Transactions#12642L)#14071L, sum(Satisfaction of Mortgage Transactions#12643L)#14072L, sum(Assignment of Mortgage Transactions#12644L)#14073L, sum(lis_pendens_transactions#12645L)#14074L, sum(judgment_transactions#12646L)#14075L, sum(loan_modification_transactions#12647L)#14076L]
Results [12]: [party_name#12417, party_id#12418, company_id#12419, min(deleted_at#12639)#14068 AS deleted_at#12648, max(has_pdf#12640)#14069 AS has_pdf#12649, sum(Mortgage Transactions#12641L)#14070L AS Mortgage Transactions#12650L, sum(Deed Transactions#12642L)#14071L AS Deed Transactions#12651L, sum(Satisfaction of Mortgage Transactions#12643L)#14072L AS Satisfaction of Mortgage Transactions#12652L, sum(Assignment of Mortgage Transactions#12644L)#14073L AS Assignment of Mortgage Transactions#12653L, sum(lis_pendens_transactions#12645L)#14074L AS lis_pendens_transactions#12654L, sum(judgment_transactions#12646L)#14075L AS judgment_transactions#12655L, sum(loan_modification_transactions#12647L)#14076L AS loan_modification_transactions#12656L]

(149) LocalLimit

Input [12]: [party_name#12417, party_id#12418, company_id#12419, deleted_at#12648, has_pdf#12649, Mortgage Transactions#12650L, Deed Transactions#12651L, Satisfaction of Mortgage Transactions#12652L, Assignment of Mortgage Transactions#12653L, lis_pendens_transactions#12654L, judgment_transactions#12655L, loan_modification_transactions#12656L]
Arguments: 21

(150) Exchange

Input [12]: [party_name#12417, party_id#12418, company_id#12419, deleted_at#12648, has_pdf#12649, Mortgage Transactions#12650L, Deed Transactions#12651L, Satisfaction of Mortgage Transactions#12652L, Assignment of Mortgage Transactions#12653L, lis_pendens_transactions#12654L, judgment_transactions#12655L, loan_modification_transactions#12656L]
Arguments: hashpartitioning(party_id#12418, 200), ENSURE_REQUIREMENTS, [plan_id=154790]

(151) Scan JDBCRelation((SELECT party_name, party_id, company_id, deleted_at, updated_at FROM public.party) SPARK_GEN_SUBQ_3936) [numPartitions=1] [codegen id : 17]

Output [5]: [party_name#12657, party_id#12658, company_id#12659, deleted_at#12660, updated_at#12661]
Arguments: [party_name#12657, party_id#12658, company_id#12659, deleted_at#12660, updated_at#12661], [StructField(party_name,StringType,true), StructField(party_id,IntegerType,true), StructField(company_id,IntegerType,true), StructField(deleted_at,TimestampType,true), StructField(updated_at,TimestampType,true)], {NotNull(party_id)}, {NotNull(party_id)}, PushedDownOperators(None,None,None,None,List(),List()), JDBCRDD[1596] at Spark Connect - session_id: "1b4f6863-c045-4bc4-8d01-46ee376b2f58"
user_context {
 user_id: "6106180720153940"
 user_name: "anton@forecasa...., JDBCRelation((SELECT party_name, party_id, company_id, deleted_at, updated_at FROM public.party) SPARK_GEN_SUBQ_3936) [numPartitions=1], Statistics(sizeInBytes=8.0 EiB, ColumnStat: N/A)
External engine query: SELECT "party_name","party_id","company_id","deleted_at","updated_at" FROM (SELECT party_name, party_id, company_id, deleted_at, updated_at FROM public.party) SPARK_GEN_SUBQ_3936 WHERE ("party_id" IS NOT NULL)

(152) PhotonRowToColumnar

Input [5]: [party_name#12657, party_id#12658, company_id#12659, deleted_at#12660, updated_at#12661]

(153) PhotonShuffleExchangeSink

Input [5]: [party_name#12657, party_id#12658, company_id#12659, deleted_at#12660, updated_at#12661]
Arguments: hashpartitioning(party_id#12658, 200)

(154) PhotonShuffleMapStage

Input [5]: [party_name#12657, party_id#12658, company_id#12659, deleted_at#12660, updated_at#12661]
Arguments: ENSURE_REQUIREMENTS, [id=154798]

(155) ShuffleQueryStage

Output [5]: [party_name#12657, party_id#12658, company_id#12659, deleted_at#12660, updated_at#12661]
Arguments: 16, Statistics(sizeInBytes=8.0 EiB, ColumnStat: N/A)

(156) Scan JDBCRelation((SELECT distinct party_id, transaction_id FROM public.transaction_party_name) SPARK_GEN_SUBQ_3944) [numPartitions=1] [codegen id : 18]

Output [2]: [party_id#12667, transaction_id#12668]

```

Arguments: [party_id#12667, transaction_id#12668], [StructField(party_id,IntegerType,true), StructField(transaction_id,StringType,true)],
{NotNull(party_id), NotNull(transaction_id)}, {NotNull(party_id), NotNull(transaction_id)},
PushedDownOperators(None,None,None,None,List(),List()), JDBCRDD[1597] at Spark Connect - session_id: "1b4f6863-c045-4bc4-8d01-46ee376b2f58"
user_context {
  user_id: "6106180720153940"
  user_name: "anton@forecasa...., JDBCRelation((SELECT distinct party_id, transaction_id FROM public.transaction_party_name)
SPARK_GEN_SUBQ_3944) [numPartitions=1], Statistics(sizeInBytes=8.0 EiB, ColumnStat: N/A)
External engine query: SELECT "party_id","transaction_id" FROM (SELECT distinct party_id, transaction_id FROM
public.transaction_party_name) SPARK_GEN_SUBQ_3944 WHERE ("party_id" IS NOT NULL) AND ("transaction_id" IS NOT NULL)

(157) PhotonRowToColumnar
Input [2]: [party_id#12667, transaction_id#12668]

(158) PhotonShuffleExchangeSink
Input [2]: [party_id#12667, transaction_id#12668]
Arguments: hashpartitioning(party_id#12667, 200)

(159) PhotonShuffleMapStage
Input [2]: [party_id#12667, transaction_id#12668]
Arguments: ENSURE_REQUIREMENTS, [id=#154808]

(160) ShuffleQueryStage
Output [2]: [party_id#12667, transaction_id#12668]
Arguments: 17, Statistics(sizeInBytes=8.0 EiB, ColumnStat: N/A)

(161) ShuffledHashJoin
Left keys [1]: [party_id#12658]
Right keys [1]: [party_id#12667]
Join type: Inner
Join condition: None

(162) Project
Output [6]: [party_id#12658, party_name#12657, company_id#12659, deleted_at#12660, updated_at#12661, transaction_id#12668]
Input [7]: [party_name#12657, party_id#12658, company_id#12659, deleted_at#12660, updated_at#12661, party_id#12667, transaction_id#12668]

(163) HashAggregate
Input [6]: [party_id#12658, party_name#12657, company_id#12659, deleted_at#12660, updated_at#12661, transaction_id#12668]
Keys [6]: [party_name#12657, party_id#12658, company_id#12659, deleted_at#12660, transaction_id#12668, updated_at#12661]
Functions: []
Aggregate Attributes: []
Results [6]: [party_name#12657, party_id#12658, company_id#12659, deleted_at#12660, transaction_id#12668, updated_at#12661]

(164) Exchange
Input [6]: [party_name#12657, party_id#12658, company_id#12659, deleted_at#12660, transaction_id#12668, updated_at#12661]
Arguments: hashpartitioning(transaction_id#12668, 200), ENSURE_REQUIREMENTS, [plan_id=154814]

(165) Scan JDBCRelation((
SELECT
  "County" as county,
  "Transaction_Type" as transaction_type,
  "FC_Transaction_Date" as fc_transaction_date,
  "FC_Recorded_Date" as fc_recorded_date,
  "FC_Cross_Party" as fc_cross_party,
  fcdateupdated,
  fctransactionid,
  "PDF_ID" as pdf_id
FROM public.transaction) SPARK_GEN_SUBQ_3952) [numPartitions=1] [codegen id : 19]
Output [7]: [county#12671, transaction_type#12672, fc_transaction_date#12673, fc_recorded_date#12674, fcdateupdated#12676,
fctransactionid#12677, pdf_id#12678]
Arguments: [county#12671, transaction_type#12672, fc_transaction_date#12673, fc_recorded_date#12674, fcdateupdated#12676,
fctransactionid#12677, pdf_id#12678], [StructField(county,StringType,true), StructField(transaction_type,StringType,true),
StructField(fc_transaction_date,StringType,true), StructField(fc_recorded_date,StringType,true),
StructField(fcdateupdated,TimestampType,true), StructField(fctransactionid,StringType,true), StructField(pdf_id,StringType,true)],
{NotNull(fctransactionid)}, {NotNull(fctransactionid)}, PushedDownOperators(None,None,None,None,List(),List()), JDBCRDD[1598] at Spark
Connect - session_id: "1b4f6863-c045-4bc4-8d01-46ee376b2f58"
user_context {
  user_id: "6106180720153940"
  user_name: "anton@forecasa...., JDBCRelation((
SELECT
  "County" as county,
  "Transaction_Type" as transaction_type,
  "FC_Transaction_Date" as fc_transaction_date,
  "FC_Recorded_Date" as fc_recorded_date,
  "FC_Cross_Party" as fc_cross_party,
  fcdateupdated,
  fctransactionid,
  "PDF_ID" as pdf_id
FROM public.transaction) SPARK_GEN_SUBQ_3952) [numPartitions=1], Statistics(sizeInBytes=8.0 EiB, ColumnStat: N/A)
External engine query: SELECT
"county","transaction_type","fc_transaction_date","fc_recorded_date","fcdateupdated","fctransactionid","pdf_id" FROM (
SELECT
  "County" as county,

```

```
"Transaction_Type" as transaction_type,
"FC_Transaction_Date" as fc_transaction_date,
"FC_Recorded_Date" as fc_recorded_date,
"FC_Cross_Party" as fc_cross_party,
fcdateupdated,
fctransactionid,
"PDF_ID" as pdf_id
FROM public.transaction) SPARK_GEN_SUBQ_3952 WHERE ("fctransactionid" IS NOT NULL)
```

(166) PhotonRowToColumnar

Input [7]: [county#12671, transaction_type#12672, fc_transaction_date#12673, fc_recorded_date#12674, fcdateupdated#12676, fctransactionid#12677, pdf_id#12678]

(167) PhotonShuffleExchangeSink

Input [7]: [county#12671, transaction_type#12672, fc_transaction_date#12673, fc_recorded_date#12674, fcdateupdated#12676, fctransactionid#12677, pdf_id#12678]

Arguments: hashpartitioning(fctransactionid#12677, 200)

(168) PhotonShuffleMapStage

Input [7]: [county#12671, transaction_type#12672, fc_transaction_date#12673, fc_recorded_date#12674, fcdateupdated#12676, fctransactionid#12677, pdf_id#12678]

Arguments: ENSURE_REQUIREMENTS, [id=#154822]

(169) ShuffleQueryStage

Output [7]: [county#12671, transaction_type#12672, fc_transaction_date#12673, fc_recorded_date#12674, fcdateupdated#12676, fctransactionid#12677, pdf_id#12678]

Arguments: 18, Statistics(sizeInBytes=8.0 EiB, ColumnStat: N/A)

(170) ShuffledHashJoin

Left keys [1]: [transaction_id#12668]

Right keys [1]: [fctransactionid#12677]

Join type: Inner

Join condition: None

(171) Project

Output [11]: [party_name#12657, party_id#12658, company_id#12659, deleted_at#12660, county#12671, transaction_type#12672, fc_transaction_date#12673, fc_recorded_date#12674, greatest(fcdateupdated#12676, updated_at#12661) AS fcdateupdated#12717, fctransactionid#12677, pdf_id#12678]

Input [13]: [party_name#12657, party_id#12658, company_id#12659, deleted_at#12660, transaction_id#12668, updated_at#12661, county#12671, transaction_type#12672, fc_transaction_date#12673, fc_recorded_date#12674, fcdateupdated#12676, fctransactionid#12677, pdf_id#12678]

(172) HashAggregate

Input [11]: [party_name#12657, party_id#12658, company_id#12659, deleted_at#12660, county#12671, transaction_type#12672, fc_transaction_date#12673, fc_recorded_date#12674, fcdateupdated#12717, fctransactionid#12677, pdf_id#12678]

Keys [11]: [party_name#12657, party_id#12658, company_id#12659, deleted_at#12660, county#12671, transaction_type#12672, fc_transaction_date#12673, fc_recorded_date#12674, fcdateupdated#12717, fctransactionid#12677, pdf_id#12678]

Functions: []

Aggregate Attributes: []

Results [11]: [party_name#12657, party_id#12658, company_id#12659, deleted_at#12660, county#12671, transaction_type#12672, fc_transaction_date#12673, fc_recorded_date#12674, fcdateupdated#12717, fctransactionid#12677, pdf_id#12678]

(173) Exchange

Input [11]: [party_name#12657, party_id#12658, company_id#12659, deleted_at#12660, county#12671, transaction_type#12672, fc_transaction_date#12673, fc_recorded_date#12674, fcdateupdated#12717, fctransactionid#12677, pdf_id#12678]

Arguments: hashpartitioning(party_id#12658, 200), ENSURE_REQUIREMENTS, [plan_id=154828]

(174) Scan JDBCRelation((SELECT distinct party_id, transaction_id FROM public.transaction_party_name) SPARK_GEN_SUBQ_3960)

[numPartitions=1] [codegen id : 20]

Output [2]: [party_id#12687, transaction_id#12688]

Arguments: [party_id#12687, transaction_id#12688], [StructField(party_id,IntegerType,true), StructField(transaction_id,StringType,true)], {IsNotNull(party_id), IsNotNull(transaction_id)}, {IsNotNull(party_id), IsNotNull(transaction_id)},

PushedDownOperators(None,None,None,None,List(),List()), JDBCRDD[1599] at Spark Connect - session_id: "1b4f6863-c045-4bc4-8d01-46ee376b2f58"

user_context {

user_id: "6106180720153940"

user_name: "anton@forecasa...., JDBCRelation((SELECT distinct party_id, transaction_id FROM public.transaction_party_name)

SPARK_GEN_SUBQ_3960) [numPartitions=1], Statistics(sizeInBytes=8.0 EiB, ColumnStat: N/A)

External engine query: SELECT "party_id","transaction_id" FROM (SELECT distinct party_id, transaction_id FROM public.transaction_party_name) SPARK_GEN_SUBQ_3960 WHERE ("party_id" IS NOT NULL) AND ("transaction_id" IS NOT NULL)

(175) PhotonRowToColumnar

Input [2]: [party_id#12687, transaction_id#12688]

(176) PhotonShuffleExchangeSink

Input [2]: [party_id#12687, transaction_id#12688]

Arguments: hashpartitioning(transaction_id#12688, 200)

(177) PhotonShuffleMapStage

Input [2]: [party_id#12687, transaction_id#12688]

Arguments: ENSURE_REQUIREMENTS, [id=#154836]

(178) ShuffleQueryStage

Output [2]: [party_id#12687, transaction_id#12688]

Arguments: 19, Statistics(sizeInBytes=8.0 EiB, ColumnStat: N/A)

(179) Scan JDBCRelation((SELECT fc_transaction_id FROM publish.transactions WHERE fc_updated_at > '2000-04-16 12:00:00') SPARK_GEN_SUBQ_3968) [numPartitions=1] [codegen id : 21]

Output [1]: [fc_transaction_id#12691]

Arguments: [fc_transaction_id#12691], [StructField(fc_transaction_id,StringType,true)], {IsNull(fc_transaction_id)}, {IsNull(fc_transaction_id)}, PushedDownOperators(None,None,None,None,List(),List()), JDBCRDD[1600] at Spark Connect - session_id: "1b4f6863-c045-4bc4-8d01-46ee376b2f58"

user_context {

user_id: "6106180720153940"

user_name: "anton@forecasa...", JDBCRelation((SELECT fc_transaction_id FROM publish.transactions WHERE fc_updated_at > '2000-04-16 12:00:00') SPARK_GEN_SUBQ_3968) [numPartitions=1], Statistics(sizeInBytes=8.0 EiB, ColumnStat: N/A)

External engine query: SELECT "fc_transaction_id" FROM (SELECT fc_transaction_id FROM publish.transactions WHERE fc_updated_at > '2000-04-16 12:00:00') SPARK_GEN_SUBQ_3968 WHERE ("fc_transaction_id" IS NOT NULL)

(180) PhotonRowToColumnar

Input [1]: [fc_transaction_id#12691]

(181) PhotonShuffleExchangeSink

Input [1]: [fc_transaction_id#12691]

Arguments: hashpartitioning(fc_transaction_id#12691, 200)

(182) PhotonShuffleMapStage

Input [1]: [fc_transaction_id#12691]

Arguments: ENSURE_REQUIREMENTS, [id=#154846]

(183) ShuffleQueryStage

Output [1]: [fc_transaction_id#12691]

Arguments: 20, Statistics(sizeInBytes=8.0 EiB, ColumnStat: N/A)

(184) ShuffledHashJoin

Left keys [1]: [transaction_id#12688]

Right keys [1]: [fc_transaction_id#12691]

Join type: LeftSemi

Join condition: None

(185) Project

Output [1]: [party_id#12687]

Input [2]: [party_id#12687, transaction_id#12688]

(186) HashAggregate

Input [1]: [party_id#12687]

Keys [1]: [party_id#12687]

Functions: []

Aggregate Attributes: []

Results [1]: [party_id#12687]

(187) Exchange

Input [1]: [party_id#12687]

Arguments: hashpartitioning(party_id#12687, 200), ENSURE_REQUIREMENTS, [plan_id=154852]

(188) HashAggregate

Input [1]: [party_id#12687]

Keys [1]: [party_id#12687]

Functions: []

Aggregate Attributes: []

Results [1]: [party_id#12687]

(189) Scan JDBCRelation((SELECT distinct party_id, transaction_id FROM public.transaction_party_cross_party) SPARK_GEN_SUBQ_3976) [numPartitions=1] [codegen id : 22]

Output [2]: [party_id#12693, transaction_id#12694]

Arguments: [party_id#12693, transaction_id#12694], [StructField(party_id,IntegerType,true), StructField(transaction_id,StringType,true)], {IsNull(party_id)}, {IsNull(transaction_id)}, {IsNull(party_id)}, {IsNull(transaction_id)}, PushedDownOperators(None,None,None,None,List(),List()), JDBCRDD[1601] at Spark Connect - session_id: "1b4f6863-c045-4bc4-8d01-46ee376b2f58"

user_context {

user_id: "6106180720153940"

user_name: "anton@forecasa...", JDBCRelation((SELECT distinct party_id, transaction_id FROM public.transaction_party_cross_party) SPARK_GEN_SUBQ_3976) [numPartitions=1], Statistics(sizeInBytes=8.0 EiB, ColumnStat: N/A)

External engine query: SELECT "party_id","transaction_id" FROM (SELECT distinct party_id, transaction_id FROM public.transaction_party_cross_party) SPARK_GEN_SUBQ_3976 WHERE ("party_id" IS NOT NULL) AND ("transaction_id" IS NOT NULL)

(190) PhotonRowToColumnar

Input [2]: [party_id#12693, transaction_id#12694]

(191) PhotonShuffleExchangeSink

Input [2]: [party_id#12693, transaction_id#12694]

Arguments: hashpartitioning(transaction_id#12694, 200)

(192) PhotonShuffleMapStage

Input [2]: [party_id#12693, transaction_id#12694]

Arguments: ENSURE_REQUIREMENTS, [id=#154861]

(193) ShuffleQueryStage
Output [2]: [party_id#12693, transaction_id#12694]
Arguments: 21, Statistics(sizeInBytes=8.0 EiB, ColumnStat: N/A)

(194) Scan JDBCRelation((SELECT fc_transaction_id FROM publish.transactions WHERE fc_updated_at > '2000-04-16 12:00:00') SPARK_GEN_SUBQ_3984) [numPartitions=1] [codegen id : 23]
Output [1]: [fc_transaction_id#12697]
Arguments: [fc_transaction_id#12697], [StructField(fc_transaction_id,StringType,true)], {IsNull(fc_transaction_id)}, {IsNull(fc_transaction_id)}, PushedDownOperators(None,None,None,None,List(),List()), JDBCRDD[1602] at Spark Connect - session_id: "1b4f6863-c045-4bc4-8d01-46ee376b2f58"
user_context {
 user_id: "6106180720153940"
 user_name: "anton@forecasa...., JDBCRelation((SELECT fc_transaction_id FROM publish.transactions WHERE fc_updated_at > '2000-04-16 12:00:00') SPARK_GEN_SUBQ_3984) [numPartitions=1], Statistics(sizeInBytes=8.0 EiB, ColumnStat: N/A)
External engine query: SELECT "fc_transaction_id" FROM (SELECT fc_transaction_id FROM publish.transactions WHERE fc_updated_at > '2000-04-16 12:00:00') SPARK_GEN_SUBQ_3984 WHERE ("fc_transaction_id" IS NOT NULL)

(195) PhotonRowToColumnar
Input [1]: [fc_transaction_id#12697]

(196) PhotonShuffleExchangeSink
Input [1]: [fc_transaction_id#12697]
Arguments: hashpartitioning(fc_transaction_id#12697, 200)

(197) PhotonShuffleMapStage
Input [1]: [fc_transaction_id#12697]
Arguments: ENSURE_REQUIREMENTS, [id=#154871]

(198) ShuffleQueryStage
Output [1]: [fc_transaction_id#12697]
Arguments: 22, Statistics(sizeInBytes=8.0 EiB, ColumnStat: N/A)

(199) ShuffledHashJoin
Left keys [1]: [transaction_id#12694]
Right keys [1]: [fc_transaction_id#12697]
Join type: LeftSemi
Join condition: None

(200) Project
Output [1]: [party_id#12693]
Input [2]: [party_id#12693, transaction_id#12694]

(201) HashAggregate
Input [1]: [party_id#12693]
Keys [1]: [party_id#12693]
Functions: []
Aggregate Attributes: []
Results [1]: [party_id#12693]

(202) Exchange
Input [1]: [party_id#12693]
Arguments: hashpartitioning(party_id#12693, 200), ENSURE_REQUIREMENTS, [plan_id=154877]

(203) HashAggregate
Input [1]: [party_id#12693]
Keys [1]: [party_id#12693]
Functions: []
Aggregate Attributes: []
Results [1]: [party_id#12693]

(204) Union

(205) HashAggregate
Input [1]: [party_id#12687]
Keys [1]: [party_id#12687]
Functions: []
Aggregate Attributes: []
Results [1]: [party_id#12687]

(206) Exchange
Input [1]: [party_id#12687]
Arguments: hashpartitioning(party_id#12687, 200), ENSURE_REQUIREMENTS, [plan_id=154881]

(207) ShuffledHashJoin
Left keys [1]: [party_id#12658]
Right keys [1]: [party_id#12687]
Join type: LeftSemi
Join condition: None

(208) HashAggregate
Input [11]: [party_name#12657, party_id#12658, company_id#12659, deleted_at#12660, county#12671, transaction_type#12672, fc_transaction_date#12673, fc_recorded_date#12674, fcdateupdated#12717, fctransactionid#12677, pdf_id#12678]
Keys [11]: [party_name#12657, party_id#12658, company_id#12659, deleted_at#12660, county#12671, transaction_type#12672,


```
fc_transaction_date#12673, fc_recorded_date#12674, fcdateupdated#12717, fctransactionid#12677, pdf_id#12678]
Functions: []
Aggregate Attributes: []
Results [11]: [party_name#12657, party_id#12658, company_id#12659, deleted_at#12660, county#12671, transaction_type#12672,
fc_transaction_date#12673, fc_recorded_date#12674, fcdateupdated#12717, fctransactionid#12677, pdf_id#12678]

(209) Exchange
Input [11]: [party_name#12657, party_id#12658, company_id#12659, deleted_at#12660, county#12671, transaction_type#12672,
fc_transaction_date#12673, fc_recorded_date#12674, fcdateupdated#12717, fctransactionid#12677, pdf_id#12678]
Arguments: hashpartitioning(pdf_id#12678, 200), ENSURE_REQUIREMENTS, [plan_id=154884]

(210) Scan JDBCRelation((SELECT pdf_id FROM public.pdf_record) SPARK_GEN_SUBQ_3992) [numPartitions=1] [codegen id : 24]
Output [1]: [pdf_id#12699]
Arguments: [pdf_id#12699], [StructField(pdf_id,StringType,true)], {IsNotNull(pdf_id)}, {IsNotNull(pdf_id)},
PushedDownOperators(None,None,None,None,List(),List()), JDBCRDD[1603] at Spark Connect - session_id: "1b4f6863-c045-4bc4-8d01-
46ee376b2f58"
user_context {
  user_id: "6106180720153940"
  user_name: "anton@forecasa...., JDBCRelation((SELECT pdf_id FROM public.pdf_record) SPARK_GEN_SUBQ_3992) [numPartitions=1],
Statistics(sizeInBytes=8.0 EiB, ColumnStat: N/A)
External engine query: SELECT "pdf_id" FROM (SELECT pdf_id FROM public.pdf_record) SPARK_GEN_SUBQ_3992 WHERE ("pdf_id" IS NOT NULL)

(211) PhotonRowToColumnar
Input [1]: [pdf_id#12699]

(212) PhotonShuffleExchangeSink
Input [1]: [pdf_id#12699]
Arguments: hashpartitioning(pdf_id#12699, 200)

(213) PhotonShuffleMapStage
Input [1]: [pdf_id#12699]
Arguments: ENSURE_REQUIREMENTS, [id=#154892]

(214) ShuffleQueryStage
Output [1]: [pdf_id#12699]
Arguments: 23, Statistics(sizeInBytes=8.0 EiB, ColumnStat: N/A)

(215) ShuffledHashJoin
Left keys [1]: [pdf_id#12678]
Right keys [1]: [pdf_id#12699]
Join type: LeftOuter
Join condition: None

(216) Project
Output [11]: [party_name#12657, party_id#12658, company_id#12659, deleted_at#12660, county#12671, transaction_type#12672,
fc_transaction_date#12673, fc_recorded_date#12674, fcdateupdated#12717, fctransactionid#12677, ((isnotnull(pdf_id#12699) AND
(transaction_type#12672 = MORTGAGE)) <=> true) AS has_pdf#12749]
Input [12]: [party_name#12657, party_id#12658, company_id#12659, deleted_at#12660, county#12671, transaction_type#12672,
fc_transaction_date#12673, fc_recorded_date#12674, fcdateupdated#12717, fctransactionid#12677, pdf_id#12678, pdf_id#12699]

(217) HashAggregate
Input [11]: [party_name#12657, party_id#12658, company_id#12659, deleted_at#12660, county#12671, transaction_type#12672,
fc_transaction_date#12673, fc_recorded_date#12674, fcdateupdated#12717, fctransactionid#12677, has_pdf#12749]
Keys [11]: [party_name#12657, party_id#12658, company_id#12659, deleted_at#12660, county#12671, transaction_type#12672,
fc_transaction_date#12673, fc_recorded_date#12674, fcdateupdated#12717, fctransactionid#12677, has_pdf#12749]
Functions: []
Aggregate Attributes: []
Results [11]: [party_name#12657, party_id#12658, company_id#12659, deleted_at#12660, county#12671, transaction_type#12672,
fc_transaction_date#12673, fc_recorded_date#12674, fcdateupdated#12717, fctransactionid#12677, has_pdf#12749]

(218) Exchange
Input [11]: [party_name#12657, party_id#12658, company_id#12659, deleted_at#12660, county#12671, transaction_type#12672,
fc_transaction_date#12673, fc_recorded_date#12674, fcdateupdated#12717, fctransactionid#12677, has_pdf#12749]
Arguments: hashpartitioning(party_name#12657, party_id#12658, company_id#12659, deleted_at#12660, county#12671, transaction_type#12672,
fc_transaction_date#12673, fc_recorded_date#12674, fcdateupdated#12717, fctransactionid#12677, has_pdf#12749, 200), ENSURE_REQUIREMENTS,
[plan_id=154898]

(219) HashAggregate
Input [11]: [party_name#12657, party_id#12658, company_id#12659, deleted_at#12660, county#12671, transaction_type#12672,
fc_transaction_date#12673, fc_recorded_date#12674, fcdateupdated#12717, fctransactionid#12677, has_pdf#12749]
Keys [11]: [party_name#12657, party_id#12658, company_id#12659, deleted_at#12660, county#12671, transaction_type#12672,
fc_transaction_date#12673, fc_recorded_date#12674, fcdateupdated#12717, fctransactionid#12677, has_pdf#12749]
Functions: []
Aggregate Attributes: []
Results [4]: [party_name#12657, party_id#12658, fc_recorded_date#12674, fcdateupdated#12717]

(220) Scan JDBCRelation((SELECT party_name, party_id, company_id, deleted_at, updated_at FROM public.party) SPARK_GEN_SUBQ_4000)
[numPartitions=1] [codegen id : 25]
Output [5]: [party_name#12766, party_id#12767, company_id#12768, deleted_at#12769, updated_at#12770]
Arguments: [party_name#12766, party_id#12767, company_id#12768, deleted_at#12769, updated_at#12770],
[StructField(party_name,StringType,true), StructField(party_id,IntegerType,true), StructField(company_id,IntegerType,true),
StructField(deleted_at,TimestampType,true), StructField(updated_at,TimestampType,true)], {IsNotNull(party_id)}, {IsNotNull(party_id)},
PushedDownOperators(None,None,None,None,List(),List()), JDBCRDD[1604] at Spark Connect - session_id: "1b4f6863-c045-4bc4-8d01-
```

```
46ee376b2f58"
user_context {
  user_id: "6106180720153940"
  user_name: "anton@forecasa...., JDBCRelation((SELECT party_name, party_id, company_id, deleted_at, updated_at FROM public.party)
SPARK_GEN_SUBQ_4000) [numPartitions=1], Statistics(sizeInBytes=8.0 EiB, ColumnStat: N/A)
External engine query: SELECT "party_name","party_id","company_id","deleted_at","updated_at" FROM (SELECT party_name, party_id,
company_id, deleted_at, updated_at FROM public.party) SPARK_GEN_SUBQ_4000 WHERE ("party_id" IS NOT NULL)

(221) PhotonRowToColumnar
Input [5]: [party_name#12766, party_id#12767, company_id#12768, deleted_at#12769, updated_at#12770]

(222) PhotonShuffleExchangeSink
Input [5]: [party_name#12766, party_id#12767, company_id#12768, deleted_at#12769, updated_at#12770]
Arguments: hashpartitioning(party_id#12767, 200)

(223) PhotonShuffleMapStage
Input [5]: [party_name#12766, party_id#12767, company_id#12768, deleted_at#12769, updated_at#12770]
Arguments: ENSURE_REQUIREMENTS, [id=#154907]

(224) ShuffleQueryStage
Output [5]: [party_name#12766, party_id#12767, company_id#12768, deleted_at#12769, updated_at#12770]
Arguments: 24, Statistics(sizeInBytes=8.0 EiB, ColumnStat: N/A)

(225) Scan JDBCRelation((SELECT distinct party_id, transaction_id FROM public.transaction_party_cross_party) SPARK_GEN_SUBQ_4008)
[numPartitions=1] [codegen id : 26]
Output [2]: [party_id#12776, transaction_id#12777]
Arguments: [party_id#12776, transaction_id#12777], [StructField(party_id,IntegerType,true), StructField(transaction_id,StringType,true)],
{NotNull(party_id), NotNull(transaction_id)}, {NotNull(party_id), NotNull(transaction_id)},
PushedDownOperators(None,None,None,None,List(),List()), JDBCRDD[1605] at Spark Connect - session_id: "1b4f6863-c045-4bc4-8d01-
46ee376b2f58"
user_context {
  user_id: "6106180720153940"
  user_name: "anton@forecasa...., JDBCRelation((SELECT distinct party_id, transaction_id FROM public.transaction_party_cross_party)
SPARK_GEN_SUBQ_4008) [numPartitions=1], Statistics(sizeInBytes=8.0 EiB, ColumnStat: N/A)
External engine query: SELECT "party_id","transaction_id" FROM (SELECT distinct party_id, transaction_id FROM
public.transaction_party_cross_party) SPARK_GEN_SUBQ_4008 WHERE ("party_id" IS NOT NULL) AND ("transaction_id" IS NOT NULL)

(226) PhotonRowToColumnar
Input [2]: [party_id#12776, transaction_id#12777]

(227) PhotonShuffleExchangeSink
Input [2]: [party_id#12776, transaction_id#12777]
Arguments: hashpartitioning(party_id#12776, 200)

(228) PhotonShuffleMapStage
Input [2]: [party_id#12776, transaction_id#12777]
Arguments: ENSURE_REQUIREMENTS, [id=#154917]

(229) ShuffleQueryStage
Output [2]: [party_id#12776, transaction_id#12777]
Arguments: 25, Statistics(sizeInBytes=8.0 EiB, ColumnStat: N/A)

(230) ShuffledHashJoin
Left keys [1]: [party_id#12767]
Right keys [1]: [party_id#12776]
Join type: Inner
Join condition: None

(231) Project
Output [6]: [party_id#12767, party_name#12766, company_id#12768, deleted_at#12769, updated_at#12770, transaction_id#12777]
Input [7]: [party_name#12766, party_id#12767, company_id#12768, deleted_at#12769, updated_at#12770, party_id#12776, transaction_id#12777]

(232) HashAggregate
Input [6]: [party_id#12767, party_name#12766, company_id#12768, deleted_at#12769, updated_at#12770, transaction_id#12777]
Keys [6]: [party_name#12766, party_id#12767, company_id#12768, deleted_at#12769, transaction_id#12777, updated_at#12770]
Functions: []
Aggregate Attributes: []
Results [6]: [party_name#12766, party_id#12767, company_id#12768, deleted_at#12769, transaction_id#12777, updated_at#12770]

(233) Exchange
Input [6]: [party_name#12766, party_id#12767, company_id#12768, deleted_at#12769, transaction_id#12777, updated_at#12770]
Arguments: hashpartitioning(transaction_id#12777, 200), ENSURE_REQUIREMENTS, [plan_id=154923]

(234) Scan JDBCRelation((
SELECT
  "County" as county,
  "Transaction_Type" as transaction_type,
  "FC_Transaction_Date" as fc_transaction_date,
  "FC_Recorded_Date" as fc_recorded_date,
  "FC_Cross_Party" as fc_cross_party,
  fcdateupdated,
  fctransactionid,
  "PDF_ID" as pdf_id
```

```
FROM public.transaction) SPARK_GEN_SUBQ_4016) [numPartitions=1] [codegen id : 27]
Output [7]: [county#12780, transaction_type#12781, fc_transaction_date#12782, fc_recorded_date#12783, fcdateupdated#12785,
fctransactionid#12786, pdf_id#12787]
Arguments: [county#12780, transaction_type#12781, fc_transaction_date#12782, fc_recorded_date#12783, fcdateupdated#12785,
fctransactionid#12786, pdf_id#12787], [StructField(county,StringType,true), StructField(transaction_type,StringType,true),
StructField(fc_transaction_date,StringType,true), StructField(fc_recorded_date,StringType,true),
StructField(fcdateupdated,TimestampType,true), StructField(fctransactionid,StringType,true), StructField(pdf_id,StringType,true)],
{IsNull(fctransactionid)}, {IsNull(fctransactionid)}, PushedDownOperators(None,None,None,None,List(),List()), JDBCRDD[1606] at Spark
Connect - session_id: "1b4f6863-c045-4bc4-8d01-46ee376b2f58"
user_context {
  user_id: "6106180720153940"
  user_name: "anton@forecasa...., JDBCRelation((
SELECT
  "County" as county,
  "Transaction_Type" as transaction_type,
  "FC_Transaction_Date" as fc_transaction_date,
  "FC_Recorded_Date" as fc_recorded_date,
  "FC_Cross_Party" as fc_cross_party,
  fcdateupdated,
  fctransactionid,
  "PDF_ID" as pdf_id
FROM public.transaction) SPARK_GEN_SUBQ_4016) [numPartitions=1], Statistics(sizeInBytes=8.0 EiB, ColumnStat: N/A)
External engine query: SELECT
"county","transaction_type","fc_transaction_date","fc_recorded_date","fcdateupdated","fctransactionid","pdf_id" FROM (
SELECT
  "County" as county,
  "Transaction_Type" as transaction_type,
  "FC_Transaction_Date" as fc_transaction_date,
  "FC_Recorded_Date" as fc_recorded_date,
  "FC_Cross_Party" as fc_cross_party,
  fcdateupdated,
  fctransactionid,
  "PDF_ID" as pdf_id
FROM public.transaction) SPARK_GEN_SUBQ_4016 WHERE ("fctransactionid" IS NOT NULL)

(235) PhotonRowToColumnar
Input [7]: [county#12780, transaction_type#12781, fc_transaction_date#12782, fc_recorded_date#12783, fcdateupdated#12785,
fctransactionid#12786, pdf_id#12787]

(236) PhotonShuffleExchangeSink
Input [7]: [county#12780, transaction_type#12781, fc_transaction_date#12782, fc_recorded_date#12783, fcdateupdated#12785,
fctransactionid#12786, pdf_id#12787]
Arguments: hashpartitioning(fctransactionid#12786, 200)

(237) PhotonShuffleMapStage
Input [7]: [county#12780, transaction_type#12781, fc_transaction_date#12782, fc_recorded_date#12783, fcdateupdated#12785,
fctransactionid#12786, pdf_id#12787]
Arguments: ENSURE_REQUIREMENTS, [id=#154931]

(238) ShuffleQueryStage
Output [7]: [county#12780, transaction_type#12781, fc_transaction_date#12782, fc_recorded_date#12783, fcdateupdated#12785,
fctransactionid#12786, pdf_id#12787]
Arguments: 26, Statistics(sizeInBytes=8.0 EiB, ColumnStat: N/A)

(239) ShuffledHashJoin
Left keys [1]: [transaction_id#12777]
Right keys [1]: [fctransactionid#12786]
Join type: Inner
Join condition: None

(240) Project
Output [11]: [party_name#12766, party_id#12767, company_id#12768, deleted_at#12769, county#12780, transaction_type#12781,
fc_transaction_date#12782, fc_recorded_date#12783, greatest(fcdateupdated#12785, updated_at#12770) AS fcdateupdated#12827,
fctransactionid#12786, pdf_id#12787]
Input [13]: [party_name#12766, party_id#12767, company_id#12768, deleted_at#12769, transaction_id#12777, updated_at#12770, county#12780,
transaction_type#12781, fc_transaction_date#12782, fc_recorded_date#12783, fcdateupdated#12785, fctransactionid#12786, pdf_id#12787]

(241) HashAggregate
Input [11]: [party_name#12766, party_id#12767, company_id#12768, deleted_at#12769, county#12780, transaction_type#12781,
fc_transaction_date#12782, fc_recorded_date#12783, fcdateupdated#12827, fctransactionid#12786, pdf_id#12787]
Keys [11]: [party_name#12766, party_id#12767, company_id#12768, deleted_at#12769, county#12780, transaction_type#12781,
fc_transaction_date#12782, fc_recorded_date#12783, fcdateupdated#12827, fctransactionid#12786, pdf_id#12787]
Functions: []
Aggregate Attributes: []
Results [11]: [party_name#12766, party_id#12767, company_id#12768, deleted_at#12769, county#12780, transaction_type#12781,
fc_transaction_date#12782, fc_recorded_date#12783, fcdateupdated#12827, fctransactionid#12786, pdf_id#12787]

(242) Exchange
Input [11]: [party_name#12766, party_id#12767, company_id#12768, deleted_at#12769, county#12780, transaction_type#12781,
fc_transaction_date#12782, fc_recorded_date#12783, fcdateupdated#12827, fctransactionid#12786, pdf_id#12787]
Arguments: hashpartitioning(party_id#12767, 200), ENSURE_REQUIREMENTS, [plan_id=154937]

(243) Scan JDBCRelation((SELECT distinct party_id, transaction_id FROM public.transaction_party_name) SPARK_GEN_SUBQ_4024)
```

```
[numPartitions=1] [codegen id : 28]
Output [2]: [party_id#12796, transaction_id#12797]
Arguments: [party_id#12796, transaction_id#12797], [StructField(party_id,IntegerType,true), StructField(transaction_id,StringType,true)],
{NotNull(party_id), NotNull(transaction_id)}, {NotNull(party_id), NotNull(transaction_id)},
PushedDownOperators(None,None,None,None,List(),List()), JDBCRDD[1607] at Spark Connect - session_id: "1b4f6863-c045-4bc4-8d01-46ee376b2f58"
user_context {
  user_id: "6106180720153940"
  user_name: "anton@forecasa...., JDBCRelation((SELECT distinct party_id, transaction_id FROM public.transaction_party_name)
SPARK_GEN_SUBQ_4024) [numPartitions=1], Statistics(sizeInBytes=8.0 EiB, ColumnStat: N/A)
External engine query: SELECT "party_id","transaction_id" FROM (SELECT distinct party_id, transaction_id FROM
public.transaction_party_name) SPARK_GEN_SUBQ_4024 WHERE ("party_id" IS NOT NULL) AND ("transaction_id" IS NOT NULL)

(244) PhotonRowToColumnar
Input [2]: [party_id#12796, transaction_id#12797]

(245) PhotonShuffleExchangeSink
Input [2]: [party_id#12796, transaction_id#12797]
Arguments: hashpartitioning(transaction_id#12797, 200)

(246) PhotonShuffleMapStage
Input [2]: [party_id#12796, transaction_id#12797]
Arguments: ENSURE_REQUIREMENTS, [id=#154945]

(247) ShuffleQueryStage
Output [2]: [party_id#12796, transaction_id#12797]
Arguments: 27, Statistics(sizeInBytes=8.0 EiB, ColumnStat: N/A)

(248) Scan JDBCRelation((SELECT fc_transaction_id FROM publish.transactions WHERE fc_updated_at > '2000-04-16 12:00:00')
SPARK_GEN_SUBQ_4032) [numPartitions=1] [codegen id : 29]
Output [1]: [fc_transaction_id#12800]
Arguments: [fc_transaction_id#12800], [StructField(fc_transaction_id,StringType,true)], {NotNull(fc_transaction_id)},
{NotNull(fc_transaction_id)}, PushedDownOperators(None,None,None,None,List(),List()), JDBCRDD[1608] at Spark Connect - session_id:
"1b4f6863-c045-4bc4-8d01-46ee376b2f58"
user_context {
  user_id: "6106180720153940"
  user_name: "anton@forecasa...., JDBCRelation((SELECT fc_transaction_id FROM publish.transactions WHERE fc_updated_at > '2000-04-16
12:00:00') SPARK_GEN_SUBQ_4032) [numPartitions=1], Statistics(sizeInBytes=8.0 EiB, ColumnStat: N/A)
External engine query: SELECT "fc_transaction_id" FROM (SELECT fc_transaction_id FROM publish.transactions WHERE fc_updated_at > '2000-04-
16 12:00:00') SPARK_GEN_SUBQ_4032 WHERE ("fc_transaction_id" IS NOT NULL)

(249) PhotonRowToColumnar
Input [1]: [fc_transaction_id#12800]

(250) PhotonShuffleExchangeSink
Input [1]: [fc_transaction_id#12800]
Arguments: hashpartitioning(fc_transaction_id#12800, 200)

(251) PhotonShuffleMapStage
Input [1]: [fc_transaction_id#12800]
Arguments: ENSURE_REQUIREMENTS, [id=#154955]

(252) ShuffleQueryStage
Output [1]: [fc_transaction_id#12800]
Arguments: 28, Statistics(sizeInBytes=8.0 EiB, ColumnStat: N/A)

(253) ShuffledHashJoin
Left keys [1]: [transaction_id#12797]
Right keys [1]: [fc_transaction_id#12800]
Join type: LeftSemi
Join condition: None

(254) Project
Output [1]: [party_id#12796]
Input [2]: [party_id#12796, transaction_id#12797]

(255) HashAggregate
Input [1]: [party_id#12796]
Keys [1]: [party_id#12796]
Functions: []
Aggregate Attributes: []
Results [1]: [party_id#12796]

(256) Exchange
Input [1]: [party_id#12796]
Arguments: hashpartitioning(party_id#12796, 200), ENSURE_REQUIREMENTS, [plan_id=154961]

(257) HashAggregate
Input [1]: [party_id#12796]
Keys [1]: [party_id#12796]
Functions: []
Aggregate Attributes: []
Results [1]: [party_id#12796]
```

(258) Scan JDBCRelation((SELECT distinct party_id, transaction_id FROM public.transaction_party_cross_party) SPARK_GEN_SUBQ_4040) [numPartitions=1] [codegen id : 30]
Output [2]: [party_id#12802, transaction_id#12803]
Arguments: [party_id#12802, transaction_id#12803], [StructField(party_id,IntegerType,true), StructField(transaction_id,StringType,true)], {NotNull(party_id), NotNull(transaction_id)}, {NotNull(party_id), NotNull(transaction_id)}, PushedDownOperators(None,None,None,None,List(),List()), JDBCRDD[1609] at Spark Connect - session_id: "1b4f6863-c045-4bc4-8d01-46ee376b2f58"
user_context {
 user_id: "6106180720153940"
 user_name: "anton@forecasa....", JDBCRelation((SELECT distinct party_id, transaction_id FROM public.transaction_party_cross_party) SPARK_GEN_SUBQ_4040) [numPartitions=1], Statistics(sizeInBytes=8.0 EiB, ColumnStat: N/A)
External engine query: SELECT "party_id","transaction_id" FROM (SELECT distinct party_id, transaction_id FROM public.transaction_party_cross_party) SPARK_GEN_SUBQ_4040 WHERE ("party_id" IS NOT NULL) AND ("transaction_id" IS NOT NULL)

(259) PhotonRowToColumnar
Input [2]: [party_id#12802, transaction_id#12803]

(260) PhotonShuffleExchangeSink
Input [2]: [party_id#12802, transaction_id#12803]
Arguments: hashpartitioning(transaction_id#12803, 200)

(261) PhotonShuffleMapStage
Input [2]: [party_id#12802, transaction_id#12803]
Arguments: ENSURE_REQUIREMENTS, [id=#154970]

(262) ShuffleQueryStage
Output [2]: [party_id#12802, transaction_id#12803]
Arguments: 29, Statistics(sizeInBytes=8.0 EiB, ColumnStat: N/A)

(263) Scan JDBCRelation((SELECT fc_transaction_id FROM publish.transactions WHERE fc_updated_at > '2000-04-16 12:00:00') SPARK_GEN_SUBQ_4048) [numPartitions=1] [codegen id : 31]
Output [1]: [fc_transaction_id#12806]
Arguments: [fc_transaction_id#12806], [StructField(fc_transaction_id,StringType,true)], {NotNull(fc_transaction_id)}, {NotNull(fc_transaction_id)}, PushedDownOperators(None,None,None,None,List(),List()), JDBCRDD[1610] at Spark Connect - session_id: "1b4f6863-c045-4bc4-8d01-46ee376b2f58"
user_context {
 user_id: "6106180720153940"
 user_name: "anton@forecasa....", JDBCRelation((SELECT fc_transaction_id FROM publish.transactions WHERE fc_updated_at > '2000-04-16 12:00:00') SPARK_GEN_SUBQ_4048) [numPartitions=1], Statistics(sizeInBytes=8.0 EiB, ColumnStat: N/A)
External engine query: SELECT "fc_transaction_id" FROM (SELECT fc_transaction_id FROM publish.transactions WHERE fc_updated_at > '2000-04-16 12:00:00') SPARK_GEN_SUBQ_4048 WHERE ("fc_transaction_id" IS NOT NULL)

(264) PhotonRowToColumnar
Input [1]: [fc_transaction_id#12806]

(265) PhotonShuffleExchangeSink
Input [1]: [fc_transaction_id#12806]
Arguments: hashpartitioning(fc_transaction_id#12806, 200)

(266) PhotonShuffleMapStage
Input [1]: [fc_transaction_id#12806]
Arguments: ENSURE_REQUIREMENTS, [id=#154980]

(267) ShuffleQueryStage
Output [1]: [fc_transaction_id#12806]
Arguments: 30, Statistics(sizeInBytes=8.0 EiB, ColumnStat: N/A)

(268) ShuffledHashJoin
Left keys [1]: [transaction_id#12803]
Right keys [1]: [fc_transaction_id#12806]
Join type: LeftSemi
Join condition: None

(269) Project
Output [1]: [party_id#12802]
Input [2]: [party_id#12802, transaction_id#12803]

(270) HashAggregate
Input [1]: [party_id#12802]
Keys [1]: [party_id#12802]
Functions: []
Aggregate Attributes: []
Results [1]: [party_id#12802]

(271) Exchange
Input [1]: [party_id#12802]
Arguments: hashpartitioning(party_id#12802, 200), ENSURE_REQUIREMENTS, [plan_id=154986]

(272) HashAggregate
Input [1]: [party_id#12802]
Keys [1]: [party_id#12802]
Functions: []

Aggregate Attributes: []
Results [1]: [party_id#12802]

(273) Union

(274) HashAggregate
Input [1]: [party_id#12796]
Keys [1]: [party_id#12796]
Functions: []
Aggregate Attributes: []
Results [1]: [party_id#12796]

(275) Exchange
Input [1]: [party_id#12796]
Arguments: hashpartitioning(party_id#12796, 200), ENSURE_REQUIREMENTS, [plan_id=154990]

(276) ShuffledHashJoin
Left keys [1]: [party_id#12767]
Right keys [1]: [party_id#12796]
Join type: LeftSemi
Join condition: None

(277) HashAggregate
Input [11]: [party_name#12766, party_id#12767, company_id#12768, deleted_at#12769, county#12780, transaction_type#12781, fc_transaction_date#12782, fc_recorded_date#12783, fcdateupdated#12827, fctransactionid#12786, pdf_id#12787]
Keys [11]: [party_name#12766, party_id#12767, company_id#12768, deleted_at#12769, county#12780, transaction_type#12781, fc_transaction_date#12782, fc_recorded_date#12783, fcdateupdated#12827, fctransactionid#12786, pdf_id#12787]
Functions: []
Aggregate Attributes: []
Results [11]: [party_name#12766, party_id#12767, company_id#12768, deleted_at#12769, county#12780, transaction_type#12781, fc_transaction_date#12782, fc_recorded_date#12783, fcdateupdated#12827, fctransactionid#12786, pdf_id#12787]

(278) Exchange
Input [11]: [party_name#12766, party_id#12767, company_id#12768, deleted_at#12769, county#12780, transaction_type#12781, fc_transaction_date#12782, fc_recorded_date#12783, fcdateupdated#12827, fctransactionid#12786, pdf_id#12787]
Arguments: hashpartitioning(pdf_id#12787, 200), ENSURE_REQUIREMENTS, [plan_id=154993]

(279) Scan JDBCRelation((SELECT pdf_id FROM public.pdf_record) SPARK_GEN_SUBQ_4056) [numPartitions=1] [codegen id : 32]
Output [1]: [pdf_id#12808]
Arguments: [pdf_id#12808], [StructField(pdf_id,StringType,true)], {IsNotNull(pdf_id)}, {IsNotNull(pdf_id)}, PushedDownOperators(None,None,None,None,List(),List()), JDBCRDD[1611] at Spark Connect - session_id: "1b4f6863-c045-4bc4-8d01-46ee376b2f58"
user_context {
 user_id: "6106180720153940"
 user_name: "anton@forecasa..., JDBCRelation((SELECT pdf_id FROM public.pdf_record) SPARK_GEN_SUBQ_4056) [numPartitions=1],
Statistics(sizeInBytes=8.0 EiB, ColumnStat: N/A)
External engine query: SELECT "pdf_id" FROM (SELECT pdf_id FROM public.pdf_record) SPARK_GEN_SUBQ_4056 WHERE ("pdf_id" IS NOT NULL)

(280) PhotonRowToColumnar
Input [1]: [pdf_id#12808]

(281) PhotonShuffleExchangeSink
Input [1]: [pdf_id#12808]
Arguments: hashpartitioning(pdf_id#12808, 200)

(282) PhotonShuffleMapStage
Input [1]: [pdf_id#12808]
Arguments: ENSURE_REQUIREMENTS, [id=#155001]

(283) ShuffleQueryStage
Output [1]: [pdf_id#12808]
Arguments: 31, Statistics(sizeInBytes=8.0 EiB, ColumnStat: N/A)

(284) ShuffledHashJoin
Left keys [1]: [pdf_id#12787]
Right keys [1]: [pdf_id#12808]
Join type: LeftOuter
Join condition: None

(285) Project
Output [11]: [party_name#12766, party_id#12767, company_id#12768, deleted_at#12769, county#12780, transaction_type#12781, fc_transaction_date#12782, fc_recorded_date#12783, fcdateupdated#12827, fctransactionid#12786, ((isnotnull(pdf_id#12808) AND (transaction_type#12781 = MORTGAGE)) <=> true) AS has_pdf#12861]
Input [12]: [party_name#12766, party_id#12767, company_id#12768, deleted_at#12769, county#12780, transaction_type#12781, fc_transaction_date#12782, fc_recorded_date#12783, fcdateupdated#12827, fctransactionid#12786, pdf_id#12787, pdf_id#12808]

(286) HashAggregate
Input [11]: [party_name#12766, party_id#12767, company_id#12768, deleted_at#12769, county#12780, transaction_type#12781, fc_transaction_date#12782, fc_recorded_date#12783, fcdateupdated#12827, fctransactionid#12786, has_pdf#12861]
Keys [11]: [party_name#12766, party_id#12767, company_id#12768, deleted_at#12769, county#12780, transaction_type#12781, fc_transaction_date#12782, fc_recorded_date#12783, fcdateupdated#12827, fctransactionid#12786, has_pdf#12861]
Functions: []
Aggregate Attributes: []

Results [11]: [party_name#12766, party_id#12767, company_id#12768, deleted_at#12769, county#12780, transaction_type#12781, fc_transaction_date#12782, fc_recorded_date#12783, fcdateupdated#12827, fctransactionid#12786, has_pdf#12861]

(287) Exchange

Input [11]: [party_name#12766, party_id#12767, company_id#12768, deleted_at#12769, county#12780, transaction_type#12781, fc_transaction_date#12782, fc_recorded_date#12783, fcdateupdated#12827, fctransactionid#12786, has_pdf#12861]

Arguments: hashpartitioning(party_name#12766, party_id#12767, company_id#12768, deleted_at#12769, county#12780, transaction_type#12781, fc_transaction_date#12782, fc_recorded_date#12783, fcdateupdated#12827, fctransactionid#12786, has_pdf#12861, 200), ENSURE_REQUIREMENTS, [plan_id=155007]

(288) HashAggregate

Input [11]: [party_name#12766, party_id#12767, company_id#12768, deleted_at#12769, county#12780, transaction_type#12781, fc_transaction_date#12782, fc_recorded_date#12783, fcdateupdated#12827, fctransactionid#12786, has_pdf#12861]

Keys [11]: [party_name#12766, party_id#12767, company_id#12768, deleted_at#12769, county#12780, transaction_type#12781, fc_transaction_date#12782, fc_recorded_date#12783, fcdateupdated#12827, fctransactionid#12786, has_pdf#12861]

Functions: []

Aggregate Attributes: []

Results [4]: [party_name#12766, party_id#12767, fc_recorded_date#12783, fcdateupdated#12827]

(289) Union

(290) Sort

Input [4]: [party_name#12657, party_id#12658, fc_recorded_date#12674, fcdateupdated#12717]

Arguments: [party_id#12658 ASC NULLS FIRST, party_name#12657 ASC NULLS FIRST], false, 0

(291) SortAggregate

Input [4]: [party_name#12657, party_id#12658, fc_recorded_date#12674, fcdateupdated#12717]

Keys [2]: [party_id#12658, party_name#12657]

Functions [2]: [partial_max(date_format(cast(fc_recorded_date#12674 as timestamp), yyyy-MM-dd, Some(Etc/UTC))) AS max#14213, partial_max(fcdateupdated#12717) AS max#14215]

Aggregate Attributes [2]: [max#14212, max#14214]

Results [4]: [party_id#12658, party_name#12657, max#14213, max#14215]

(292) Exchange

Input [4]: [party_id#12658, party_name#12657, max#14213, max#14215]

Arguments: hashpartitioning(party_id#12658, party_name#12657, 200), ENSURE_REQUIREMENTS, [plan_id=155012]

(293) Sort

Input [4]: [party_id#12658, party_name#12657, max#14213, max#14215]

Arguments: [party_id#12658 ASC NULLS FIRST, party_name#12657 ASC NULLS FIRST], false, 0

(294) SortAggregate

Input [4]: [party_id#12658, party_name#12657, max#14213, max#14215]

Keys [2]: [party_id#12658, party_name#12657]

Functions [2]: [finalmerge_max(merge max#14213) AS max(date_format(cast(fc_recorded_date#12674 as timestamp), yyyy-MM-dd, Some(Etc/UTC)))#14077, finalmerge_max(merge max#14215) AS max(fcdateupdated#12717)#14053]

Aggregate Attributes [2]: [max(date_format(cast(fc_recorded_date#12674 as timestamp), yyyy-MM-dd, Some(Etc/UTC)))#14077, max(fcdateupdated#12717)#14053]

Results [3]: [party_id#12658, max(date_format(cast(fc_recorded_date#12674 as timestamp), yyyy-MM-dd, Some(Etc/UTC)))#14077 AS Most Recent Transaction#12879, max(fcdateupdated#12717)#14053 AS fcdateupdated#12880]

(295) Exchange

Input [3]: [party_id#12658, Most Recent Transaction#12879, fcdateupdated#12880]

Arguments: hashpartitioning(party_id#12658, 200), ENSURE_REQUIREMENTS, [plan_id=155015]

(296) ShuffledHashJoin

Left keys [1]: [party_id#12418]

Right keys [1]: [party_id#12658]

Join type: LeftOuter

Join condition: None

(297) Project

Output [14]: [party_name#12417, party_id#12418, company_id#12419, deleted_at#12648, has_pdf#12649, Mortgage Transactions#12650L, Deed Transactions#12651L, Satisfaction of Mortgage Transactions#12652L, Assignment of Mortgage Transactions#12653L, lis_pendens_transactions#12654L, judgment_transactions#12655L, loan_modification_transactions#12656L, Most Recent Transaction#12879, fcdateupdated#12880]

Input [15]: [party_name#12417, party_id#12418, company_id#12419, deleted_at#12648, has_pdf#12649, Mortgage Transactions#12650L, Deed Transactions#12651L, Satisfaction of Mortgage Transactions#12652L, Assignment of Mortgage Transactions#12653L, lis_pendens_transactions#12654L, judgment_transactions#12655L, loan_modification_transactions#12656L, party_id#12658, Most Recent Transaction#12879, fcdateupdated#12880]

(298) LocalLimit

Input [14]: [party_name#12417, party_id#12418, company_id#12419, deleted_at#12648, has_pdf#12649, Mortgage Transactions#12650L, Deed Transactions#12651L, Satisfaction of Mortgage Transactions#12652L, Assignment of Mortgage Transactions#12653L, lis_pendens_transactions#12654L, judgment_transactions#12655L, loan_modification_transactions#12656L, Most Recent Transaction#12879, fcdateupdated#12880]

Arguments: 21

(299) Scan JDBCRelation((SELECT party_name, party_id, company_id, deleted_at, updated_at FROM public.party) SPARK_GEN_SUBQ_4064)

[numPartitions=1] [codegen id : 33]

Output [1]: [party_id#12882]

Arguments: [party_id#12882], [StructField(party_id,IntegerType,true)], {NotNull(party_id)}, {NotNull(party_id)},

PushedDownOperators(None,None,None,None,List(),List()), JDBCRDD[1612] at Spark Connect - session_id: "1b4f6863-c045-4bc4-8d01-

```

46ee376b2f58"
user_context {
  user_id: "6106180720153940"
  user_name: "anton@forecasa...., JDBCRelation((SELECT party_name, party_id, company_id, deleted_at, updated_at FROM public.party)
SPARK_GEN_SUBQ_4064) [numPartitions=1], Statistics(sizeInBytes=8.0 EiB, ColumnStat: N/A)
External engine query: SELECT "party_id" FROM (SELECT party_name, party_id, company_id, deleted_at, updated_at FROM public.party)
SPARK_GEN_SUBQ_4064 WHERE ("party_id" IS NOT NULL)

(300) PhotonRowToColumnar
Input [1]: [party_id#12882]

(301) PhotonShuffleExchangeSink
Input [1]: [party_id#12882]
Arguments: hashpartitioning(party_id#12882, 200)

(302) PhotonShuffleMapStage
Input [1]: [party_id#12882]
Arguments: ENSURE_REQUIREMENTS, [id=#155026]

(303) ShuffleQueryStage
Output [1]: [party_id#12882]
Arguments: 32, Statistics(sizeInBytes=8.0 EiB, ColumnStat: N/A)

(304) Scan JDBCRelation((SELECT distinct party_id, transaction_id FROM public.transaction_party_cross_party) SPARK_GEN_SUBQ_4072)
[numPartitions=1] [codegen id : 34]
Output [2]: [party_id#12891, transaction_id#12892]
Arguments: [party_id#12891, transaction_id#12892], [StructField(party_id,IntegerType,true), StructField(transaction_id,StringType,true)],
{IsNotNull(party_id), IsNotNull(transaction_id)}, {IsNotNull(party_id), IsNotNull(transaction_id)},
PushedDownOperators(None,None,None,None,List(),List()), JDBCRDD[1613] at Spark Connect - session_id: "1b4f6863-c045-4bc4-8d01-
46ee376b2f58"
user_context {
  user_id: "6106180720153940"
  user_name: "anton@forecasa...., JDBCRelation((SELECT distinct party_id, transaction_id FROM public.transaction_party_cross_party)
SPARK_GEN_SUBQ_4072) [numPartitions=1], Statistics(sizeInBytes=8.0 EiB, ColumnStat: N/A)
External engine query: SELECT "party_id","transaction_id" FROM (SELECT distinct party_id, transaction_id FROM
public.transaction_party_cross_party) SPARK_GEN_SUBQ_4072 WHERE ("party_id" IS NOT NULL) AND ("transaction_id" IS NOT NULL)

(305) PhotonRowToColumnar
Input [2]: [party_id#12891, transaction_id#12892]

(306) PhotonShuffleExchangeSink
Input [2]: [party_id#12891, transaction_id#12892]
Arguments: hashpartitioning(party_id#12891, 200)

(307) PhotonShuffleMapStage
Input [2]: [party_id#12891, transaction_id#12892]
Arguments: ENSURE_REQUIREMENTS, [id=#155036]

(308) ShuffleQueryStage
Output [2]: [party_id#12891, transaction_id#12892]
Arguments: 33, Statistics(sizeInBytes=8.0 EiB, ColumnStat: N/A)

(309) ShuffledHashJoin
Left keys [1]: [party_id#12882]
Right keys [1]: [party_id#12891]
Join type: Inner
Join condition: None

(310) Project
Output [2]: [party_id#12882, transaction_id#12892]
Input [3]: [party_id#12882, party_id#12891, transaction_id#12892]

(311) Exchange
Input [2]: [party_id#12882, transaction_id#12892]
Arguments: hashpartitioning(transaction_id#12892, 200), ENSURE_REQUIREMENTS, [plan_id=155041]

(312) Scan JDBCRelation((
SELECT
  "County" as county,
  "Transaction_Type" as transaction_type,
  "FC_Transaction_Date" as fc_transaction_date,
  "FC_Recorded_Date" as fc_recorded_date,
  "FC_Cross_Party" as fc_cross_party,
  fcdateupdated,
  fctransactionid,
  "PDF_ID" as pdf_id
FROM public.transaction) SPARK_GEN_SUBQ_4080) [numPartitions=1] [codegen id : 35]
Output [2]: [fc_recorded_date#12898, fctransactionid#12901]
Arguments: [fc_recorded_date#12898, fctransactionid#12901], [StructField(fc_recorded_date,StringType,true),
StructField(fctransactionid,StringType,true)], {EqualTo(transaction_type,DEED), IsNotNull(fctransactionid), IsNotNull(transaction_type)},
{EqualTo(transaction_type,DEED), IsNotNull(fctransactionid), IsNotNull(transaction_type)},
PushedDownOperators(None,None,None,None,List(),List()), JDBCRDD[1614] at Spark Connect - session_id: "1b4f6863-c045-4bc4-8d01-
46ee376b2f58"

```



```

user_context {
  user_id: "6106180720153940"
  user_name: "anton@forecasa..., JDBCRelation((
SELECT
  "County" as county,
  "Transaction_Type" as transaction_type,
  "FC_Transaction_Date" as fc_transaction_date,
  "FC_Recorded_Date" as fc_recorded_date,
  "FC_Cross_Party" as fc_cross_party,
  fcdateupdated,
  fctransactionid,
  "PDF_ID" as pdf_id
FROM public.transaction) SPARK_GEN_SUBQ_4080) [numPartitions=1], Statistics(sizeInBytes=8.0 EiB, ColumnStat: N/A)
External engine query: SELECT "fc_recorded_date","fctransactionid" FROM (
SELECT
  "County" as county,
  "Transaction_Type" as transaction_type,
  "FC_Transaction_Date" as fc_transaction_date,
  "FC_Recorded_Date" as fc_recorded_date,
  "FC_Cross_Party" as fc_cross_party,
  fcdateupdated,
  fctransactionid,
  "PDF_ID" as pdf_id
FROM public.transaction) SPARK_GEN_SUBQ_4080 WHERE ("transaction_type" IS NOT NULL) AND ("fctransactionid" IS NOT NULL) AND
("transaction_type" = 'DEED')

(313) PhotonRowToColumnar
Input [2]: [fc_recorded_date#12898, fctransactionid#12901]

(314) PhotonShuffleExchangeSink
Input [2]: [fc_recorded_date#12898, fctransactionid#12901]
Arguments: hashpartitioning(fctransactionid#12901, 200)

(315) PhotonShuffleMapStage
Input [2]: [fc_recorded_date#12898, fctransactionid#12901]
Arguments: ENSURE_REQUIREMENTS, [id=#155049]

(316) ShuffleQueryStage
Output [2]: [fc_recorded_date#12898, fctransactionid#12901]
Arguments: 34, Statistics(sizeInBytes=8.0 EiB, ColumnStat: N/A)

(317) ShuffledHashJoin
Left keys [1]: [transaction_id#12892]
Right keys [1]: [fctransactionid#12901]
Join type: Inner
Join condition: None

(318) Project
Output [2]: [party_id#12882, fc_recorded_date#12898]
Input [4]: [party_id#12882, transaction_id#12892, fc_recorded_date#12898, fctransactionid#12901]

(319) Sort
Input [2]: [party_id#12882, fc_recorded_date#12898]
Arguments: [party_id#12882 ASC NULLS FIRST], false, 0

(320) SortAggregate
Input [2]: [party_id#12882, fc_recorded_date#12898]
Keys [1]: [party_id#12882]
Functions [1]: [partial_max(fc_recorded_date#12898) AS max#14223]
Aggregate Attributes [1]: [max#14223]
Results [2]: [party_id#12882, max#14223]

(321) Exchange
Input [2]: [party_id#12882, max#14223]
Arguments: hashpartitioning(party_id#12882, 200), ENSURE_REQUIREMENTS, [plan_id=155056]

(322) Scan JDBCRelation((SELECT distinct party_id, transaction_id FROM public.transaction_party_name) SPARK_GEN_SUBQ_4088)
[numPartitions=1] [codegen id : 36]
Output [2]: [party_id#12911, transaction_id#12912]
Arguments: [party_id#12911, transaction_id#12912], [StructField(party_id,IntegerType,true), StructField(transaction_id,StringType,true)],
{NotNull(party_id), NotNull(transaction_id)}, {NotNull(party_id), NotNull(transaction_id)},
PushedDownOperators(None,None,None,None,List(),List()), JDBCRDD[1615] at Spark Connect - session_id: "1b4f6863-c045-4bc4-8d01-
46ee376b2f58"
user_context {
  user_id: "6106180720153940"
  user_name: "anton@forecasa..., JDBCRelation((SELECT distinct party_id, transaction_id FROM public.transaction_party_name)
SPARK_GEN_SUBQ_4088) [numPartitions=1], Statistics(sizeInBytes=8.0 EiB, ColumnStat: N/A)
External engine query: SELECT "party_id","transaction_id" FROM (SELECT distinct party_id, transaction_id FROM
public.transaction_party_name) SPARK_GEN_SUBQ_4088 WHERE ("party_id" IS NOT NULL) AND ("transaction_id" IS NOT NULL)

(323) PhotonRowToColumnar
Input [2]: [party_id#12911, transaction_id#12912]

```

```
(324) PhotonShuffleExchangeSink
Input [2]: [party_id#12911, transaction_id#12912]
Arguments: hashpartitioning(transaction_id#12912, 200)

(325) PhotonShuffleMapStage
Input [2]: [party_id#12911, transaction_id#12912]
Arguments: ENSURE_REQUIREMENTS, [id=#155064]

(326) ShuffleQueryStage
Output [2]: [party_id#12911, transaction_id#12912]
Arguments: 35, Statistics(sizeInBytes=8.0 EiB, ColumnStat: N/A)

(327) Scan JDBCRelation((SELECT fc_transaction_id FROM publish.transactions WHERE fc_updated_at > '2000-04-16 12:00:00')
SPARK_GEN_SUBQ_4096) [numPartitions=1] [codegen id : 37]
Output [1]: [fc_transaction_id#12915]
Arguments: [fc_transaction_id#12915], [StructField(fc_transaction_id,StringType,true)], {IsNull(fc_transaction_id)},
{IsNull(fc_transaction_id)}, PushedDownOperators(None,None,None,None,List(),List()), JDBCRDD[1616] at Spark Connect - session_id:
"1b4f6863-c045-4bc4-8d01-46ee376b2f58"
user_context {
  user_id: "6106180720153940"
  user_name: "anton@forecasa..., JDBCRelation((SELECT fc_transaction_id FROM publish.transactions WHERE fc_updated_at > '2000-04-16
12:00:00') SPARK_GEN_SUBQ_4096) [numPartitions=1], Statistics(sizeInBytes=8.0 EiB, ColumnStat: N/A)
External engine query: SELECT "fc_transaction_id" FROM (SELECT fc_transaction_id FROM publish.transactions WHERE fc_updated_at > '2000-04-
16 12:00:00') SPARK_GEN_SUBQ_4096 WHERE ("fc_transaction_id" IS NOT NULL)

(328) PhotonRowToColumnar
Input [1]: [fc_transaction_id#12915]

(329) PhotonShuffleExchangeSink
Input [1]: [fc_transaction_id#12915]
Arguments: hashpartitioning(fc_transaction_id#12915, 200)

(330) PhotonShuffleMapStage
Input [1]: [fc_transaction_id#12915]
Arguments: ENSURE_REQUIREMENTS, [id=#155074]

(331) ShuffleQueryStage
Output [1]: [fc_transaction_id#12915]
Arguments: 36, Statistics(sizeInBytes=8.0 EiB, ColumnStat: N/A)

(332) ShuffledHashJoin
Left keys [1]: [transaction_id#12912]
Right keys [1]: [fc_transaction_id#12915]
Join type: LeftSemi
Join condition: None

(333) Project
Output [1]: [party_id#12911]
Input [2]: [party_id#12911, transaction_id#12912]

(334) HashAggregate
Input [1]: [party_id#12911]
Keys [1]: [party_id#12911]
Functions: []
Aggregate Attributes: []
Results [1]: [party_id#12911]

(335) Exchange
Input [1]: [party_id#12911]
Arguments: hashpartitioning(party_id#12911, 200), ENSURE_REQUIREMENTS, [plan_id=155080]

(336) HashAggregate
Input [1]: [party_id#12911]
Keys [1]: [party_id#12911]
Functions: []
Aggregate Attributes: []
Results [1]: [party_id#12911]

(337) Scan JDBCRelation((SELECT distinct party_id, transaction_id FROM public.transaction_party_cross_party) SPARK_GEN_SUBQ_4104)
[numPartitions=1] [codegen id : 38]
Output [2]: [party_id#12917, transaction_id#12918]
Arguments: [party_id#12917, transaction_id#12918], [StructField(party_id,IntegerType,true), StructField(transaction_id,StringType,true)],
{IsNull(party_id)}, {IsNull(transaction_id)}, {IsNull(party_id)}, {IsNull(transaction_id)},
PushedDownOperators(None,None,None,None,List(),List()), JDBCRDD[1617] at Spark Connect - session_id: "1b4f6863-c045-4bc4-8d01-
46ee376b2f58"
user_context {
  user_id: "6106180720153940"
  user_name: "anton@forecasa..., JDBCRelation((SELECT distinct party_id, transaction_id FROM public.transaction_party_cross_party)
SPARK_GEN_SUBQ_4104) [numPartitions=1], Statistics(sizeInBytes=8.0 EiB, ColumnStat: N/A)
External engine query: SELECT "party_id","transaction_id" FROM (SELECT distinct party_id, transaction_id FROM
public.transaction_party_cross_party) SPARK_GEN_SUBQ_4104 WHERE ("party_id" IS NOT NULL) AND ("transaction_id" IS NOT NULL)

(338) PhotonRowToColumnar
```

```
Input [2]: [party_id#12917, transaction_id#12918]

(339) PhotonShuffleExchangeSink
Input [2]: [party_id#12917, transaction_id#12918]
Arguments: hashpartitioning(transaction_id#12918, 200)

(340) PhotonShuffleMapStage
Input [2]: [party_id#12917, transaction_id#12918]
Arguments: ENSURE_REQUIREMENTS, [id=#155089]

(341) ShuffleQueryStage
Output [2]: [party_id#12917, transaction_id#12918]
Arguments: 37, Statistics(sizeInBytes=8.0 EiB, ColumnStat: N/A)

(342) Scan JDBCRelation((SELECT fc_transaction_id FROM publish.transactions WHERE fc_updated_at > '2000-04-16 12:00:00')
SPARK_GEN_SUBQ_4112) [numPartitions=1] [codegen id : 39]
Output [1]: [fc_transaction_id#12921]
Arguments: [fc_transaction_id#12921], [StructField(fc_transaction_id,StringType,true)], {IsNull(fc_transaction_id)},
{IsNull(fc_transaction_id)}, PushedDownOperators(None,None,None,None,List(),List()), JDBCRDD[1618] at Spark Connect - session_id:
"1b4f6863-c045-4bc4-8d01-46ee376b2f58"
user_context {
  user_id: "6106180720153940"
  user_name: "anton@forecasa...., JDBCRelation((SELECT fc_transaction_id FROM publish.transactions WHERE fc_updated_at > '2000-04-16
12:00:00') SPARK_GEN_SUBQ_4112) [numPartitions=1], Statistics(sizeInBytes=8.0 EiB, ColumnStat: N/A)
External engine query: SELECT "fc_transaction_id" FROM (SELECT fc_transaction_id FROM publish.transactions WHERE fc_updated_at > '2000-04-
16 12:00:00') SPARK_GEN_SUBQ_4112 WHERE ("fc_transaction_id" IS NOT NULL)

(343) PhotonRowToColumnar
Input [1]: [fc_transaction_id#12921]

(344) PhotonShuffleExchangeSink
Input [1]: [fc_transaction_id#12921]
Arguments: hashpartitioning(fc_transaction_id#12921, 200)

(345) PhotonShuffleMapStage
Input [1]: [fc_transaction_id#12921]
Arguments: ENSURE_REQUIREMENTS, [id=#155099]

(346) ShuffleQueryStage
Output [1]: [fc_transaction_id#12921]
Arguments: 38, Statistics(sizeInBytes=8.0 EiB, ColumnStat: N/A)

(347) ShuffledHashJoin
Left keys [1]: [transaction_id#12918]
Right keys [1]: [fc_transaction_id#12921]
Join type: LeftSemi
Join condition: None

(348) Project
Output [1]: [party_id#12917]
Input [2]: [party_id#12917, transaction_id#12918]

(349) HashAggregate
Input [1]: [party_id#12917]
Keys [1]: [party_id#12917]
Functions: []
Aggregate Attributes: []
Results [1]: [party_id#12917]

(350) Exchange
Input [1]: [party_id#12917]
Arguments: hashpartitioning(party_id#12917, 200), ENSURE_REQUIREMENTS, [plan_id=155105]

(351) HashAggregate
Input [1]: [party_id#12917]
Keys [1]: [party_id#12917]
Functions: []
Aggregate Attributes: []
Results [1]: [party_id#12917]

(352) Union

(353) Exchange
Input [1]: [party_id#12911]
Arguments: hashpartitioning(party_id#12911, 200), ENSURE_REQUIREMENTS, [plan_id=155108]

(354) ShuffledHashJoin
Left keys [1]: [party_id#12882]
Right keys [1]: [party_id#12911]
Join type: Inner
Join condition: None

(355) Project
```

```
Output [2]: [party_id#12882, max#14223]
Input [3]: [party_id#12882, max#14223, party_id#12911]

(356) Sort
Input [2]: [party_id#12882, max#14223]
Arguments: [party_id#12882 ASC NULLS FIRST], false, 0

(357) SortAggregate
Input [2]: [party_id#12882, max#14223]
Keys [1]: [party_id#12882]
Functions [1]: [merge_max(merge max#14223) AS max#14223]
Aggregate Attributes [1]: [max#14223]
Results [2]: [party_id#12882, max#14223]

(358) SortAggregate
Input [2]: [party_id#12882, max#14223]
Keys [1]: [party_id#12882]
Functions [1]: [finalmerge_max(merge max#14223) AS max(fc_recorded_date#12898)#14061]
Aggregate Attributes [1]: [max(fc_recorded_date#12898)#14061]
Results [2]: [party_id#12882, max(fc_recorded_date#12898)#14061]

(359) Project
Output [2]: [party_id#12882, max(fc_recorded_date#12898)#14061 AS Last Purchase Date#12994]
Input [2]: [party_id#12882, max(fc_recorded_date#12898)#14061]

(360) ShuffledHashJoin
Left keys [1]: [party_id#12418]
Right keys [1]: [party_id#12882]
Join type: LeftOuter
Join condition: None

(361) Project
Output [15]: [party_name#12417, party_id#12418, company_id#12419, deleted_at#12648, has_pdf#12649, Mortgage Transactions#12650L, Deed Transactions#12651L, Satisfaction of Mortgage Transactions#12652L, Assignment of Mortgage Transactions#12653L, lis_pendens_transactions#12654L, judgment_transactions#12655L, loan_modification_transactions#12656L, Most Recent Transaction#12879, fcdateupdated#12880, Last Purchase Date#12994]
Input [16]: [party_name#12417, party_id#12418, company_id#12419, deleted_at#12648, has_pdf#12649, Mortgage Transactions#12650L, Deed Transactions#12651L, Satisfaction of Mortgage Transactions#12652L, Assignment of Mortgage Transactions#12653L, lis_pendens_transactions#12654L, judgment_transactions#12655L, loan_modification_transactions#12656L, Most Recent Transaction#12879, fcdateupdated#12880, party_id#12882, Last Purchase Date#12994]

(362) LocalLimit
Input [15]: [party_name#12417, party_id#12418, company_id#12419, deleted_at#12648, has_pdf#12649, Mortgage Transactions#12650L, Deed Transactions#12651L, Satisfaction of Mortgage Transactions#12652L, Assignment of Mortgage Transactions#12653L, lis_pendens_transactions#12654L, judgment_transactions#12655L, loan_modification_transactions#12656L, Most Recent Transaction#12879, fcdateupdated#12880, Last Purchase Date#12994]
Arguments: 21

(363) Scan JDBCRelation((SELECT party_name, party_id, company_id, deleted_at, updated_at FROM public.party) SPARK_GEN_SUBQ_4128) [numPartitions=1] [codegen id : 40]
Output [1]: [party_id#12996]
Arguments: [party_id#12996], [StructField(party_id,IntegerType,true)], {NotNull(party_id)}, {NotNull(party_id)}, PushedDownOperators(None,None,None,None,List(),List()), JDBCRDD[1619] at Spark Connect - session_id: "1b4f6863-c045-4bc4-8d01-46ee376b2f58"
user_context {
  user_id: "6106180720153940"
  user_name: "anton@forecasa...., JDBCRelation((SELECT party_name, party_id, company_id, deleted_at, updated_at FROM public.party) SPARK_GEN_SUBQ_4128) [numPartitions=1], Statistics(sizeInBytes=8.0 EiB, ColumnStat: N/A)
External engine query: SELECT "party_id" FROM (SELECT party_name, party_id, company_id, deleted_at, updated_at FROM public.party) SPARK_GEN_SUBQ_4128 WHERE ("party_id" IS NOT NULL)

(364) PhotonRowToColumnar
Input [1]: [party_id#12996]

(365) PhotonShuffleExchangeSink
Input [1]: [party_id#12996]
Arguments: hashpartitioning(party_id#12996, 200)

(366) PhotonShuffleMapStage
Input [1]: [party_id#12996]
Arguments: ENSURE_REQUIREMENTS, [id=#155125]

(367) ShuffleQueryStage
Output [1]: [party_id#12996]
Arguments: 39, Statistics(sizeInBytes=8.0 EiB, ColumnStat: N/A)

(368) Scan JDBCRelation((SELECT distinct party_id, transaction_id FROM public.transaction_party_name) SPARK_GEN_SUBQ_4136) [numPartitions=1] [codegen id : 41]
Output [2]: [party_id#13005, transaction_id#13006]
Arguments: [party_id#13005, transaction_id#13006], [StructField(party_id,IntegerType,true), StructField(transaction_id,StringType,true)], {NotNull(party_id), NotNull(transaction_id)}, {NotNull(party_id), NotNull(transaction_id)}, PushedDownOperators(None,None,None,None,List(),List()), JDBCRDD[1620] at Spark Connect - session_id: "1b4f6863-c045-4bc4-8d01-46ee376b2f58"
```

```

user_context {
  user_id: "6106180720153940"
  user_name: "anton@forecasa..., JDBCRelation((SELECT distinct party_id, transaction_id FROM public.transaction_party_name)
SPARK_GEN_SUBQ_4136) [numPartitions=1], Statistics(sizeInBytes=8.0 EiB, ColumnStat: N/A)
External engine query: SELECT "party_id","transaction_id" FROM (SELECT distinct party_id, transaction_id FROM
public.transaction_party_name) SPARK_GEN_SUBQ_4136 WHERE ("party_id" IS NOT NULL) AND ("transaction_id" IS NOT NULL)

(369) PhotonRowToColumnar
Input [2]: [party_id#13005, transaction_id#13006]

(370) PhotonShuffleExchangeSink
Input [2]: [party_id#13005, transaction_id#13006]
Arguments: hashpartitioning(party_id#13005, 200)

(371) PhotonShuffleMapStage
Input [2]: [party_id#13005, transaction_id#13006]
Arguments: ENSURE_REQUIREMENTS, [id=#155135]

(372) ShuffleQueryStage
Output [2]: [party_id#13005, transaction_id#13006]
Arguments: 40, Statistics(sizeInBytes=8.0 EiB, ColumnStat: N/A)

(373) ShuffledHashJoin
Left keys [1]: [party_id#12996]
Right keys [1]: [party_id#13005]
Join type: Inner
Join condition: None

(374) Project
Output [2]: [party_id#12996, transaction_id#13006]
Input [3]: [party_id#12996, party_id#13005, transaction_id#13006]

(375) Exchange
Input [2]: [party_id#12996, transaction_id#13006]
Arguments: hashpartitioning(transaction_id#13006, 200), ENSURE_REQUIREMENTS, [plan_id=155140]

(376) Scan JDBCRelation((
SELECT
  "County" as county,
  "Transaction_Type" as transaction_type,
  "FC_Transaction_Date" as fc_transaction_date,
  "FC_Recorded_Date" as fc_recorded_date,
  "FC_Cross_Party" as fc_cross_party,
  fcdateupdated,
  fctransactionid,
  "PDF_ID" as pdf_id
FROM public.transaction) SPARK_GEN_SUBQ_4144) [numPartitions=1] [codegen id : 42]
Output [2]: [fc_recorded_date#13012, fctransactionid#13015]
Arguments: [fc_recorded_date#13012, fctransactionid#13015], [StructField(fc_recorded_date,StringType,true),
StructField(fctransactionid,StringType,true)], {EqualTo(transaction_type,DEED), IsNotNull(fctransactionid), IsNotNull(transaction_type)},
{EqualTo(transaction_type,DEED), IsNotNull(fctransactionid), IsNotNull(transaction_type)},
PushedDownOperators(None,None,None,None,List(),List()), JDBCRDD[1621] at Spark Connect - session_id: "1b4f6863-c045-4bc4-8d01-
46ee376b2f58"
user_context {
  user_id: "6106180720153940"
  user_name: "anton@forecasa..., JDBCRelation((
SELECT
  "County" as county,
  "Transaction_Type" as transaction_type,
  "FC_Transaction_Date" as fc_transaction_date,
  "FC_Recorded_Date" as fc_recorded_date,
  "FC_Cross_Party" as fc_cross_party,
  fcdateupdated,
  fctransactionid,
  "PDF_ID" as pdf_id
FROM public.transaction) SPARK_GEN_SUBQ_4144) [numPartitions=1], Statistics(sizeInBytes=8.0 EiB, ColumnStat: N/A)
External engine query: SELECT "fc_recorded_date","fctransactionid" FROM (
SELECT
  "County" as county,
  "Transaction_Type" as transaction_type,
  "FC_Transaction_Date" as fc_transaction_date,
  "FC_Recorded_Date" as fc_recorded_date,
  "FC_Cross_Party" as fc_cross_party,
  fcdateupdated,
  fctransactionid,
  "PDF_ID" as pdf_id
FROM public.transaction) SPARK_GEN_SUBQ_4144 WHERE ("transaction_type" IS NOT NULL) AND ("fctransactionid" IS NOT NULL) AND
("transaction_type" = 'DEED')

(377) PhotonRowToColumnar
Input [2]: [fc_recorded_date#13012, fctransactionid#13015]

(378) PhotonShuffleExchangeSink

```

```
Input [2]: [fc_recorded_date#13012, fctransactionid#13015]
Arguments: hashpartitioning(fctransactionid#13015, 200)

(379) PhotonShuffleMapStage
Input [2]: [fc_recorded_date#13012, fctransactionid#13015]
Arguments: ENSURE_REQUIREMENTS, [id=#155148]

(380) ShuffleQueryStage
Output [2]: [fc_recorded_date#13012, fctransactionid#13015]
Arguments: 41, Statistics(sizeInBytes=8.0 EiB, ColumnStat: N/A)

(381) ShuffledHashJoin
Left keys [1]: [transaction_id#13006]
Right keys [1]: [fctransactionid#13015]
Join type: Inner
Join condition: None

(382) Project
Output [2]: [party_id#12996, fc_recorded_date#13012]
Input [4]: [party_id#12996, transaction_id#13006, fc_recorded_date#13012, fctransactionid#13015]

(383) Sort
Input [2]: [party_id#12996, fc_recorded_date#13012]
Arguments: [party_id#12996 ASC NULLS FIRST], false, 0

(384) SortAggregate
Input [2]: [party_id#12996, fc_recorded_date#13012]
Keys [1]: [party_id#12996]
Functions [1]: [partial_max(fc_recorded_date#13012) AS max#14228]
Aggregate Attributes [1]: [max#14228]
Results [2]: [party_id#12996, max#14228]

(385) Exchange
Input [2]: [party_id#12996, max#14228]
Arguments: hashpartitioning(party_id#12996, 200), ENSURE_REQUIREMENTS, [plan_id=155155]

(386) Scan JDBCRelation((SELECT distinct party_id, transaction_id FROM public.transaction_party_name) SPARK_GEN_SUBQ_4152)
[numPartitions=1] [codegen id : 43]
Output [2]: [party_id#13025, transaction_id#13026]
Arguments: [party_id#13025, transaction_id#13026], [StructField(party_id,IntegerType,true), StructField(transaction_id,StringType,true)],
{IsNotNull(party_id), IsNotNull(transaction_id)}, {IsNotNull(party_id), IsNotNull(transaction_id)},
PushedDownOperators(None,None,None,None,List(),List()), JDBCRDD[1622] at Spark Connect - session_id: "1b4f6863-c045-4bc4-8d01-46ee376b2f58"
user_context {
  user_id: "6106180720153940"
  user_name: "anton@forecasa...., JDBCRelation((SELECT distinct party_id, transaction_id FROM public.transaction_party_name)
SPARK_GEN_SUBQ_4152) [numPartitions=1], Statistics(sizeInBytes=8.0 EiB, ColumnStat: N/A)
External engine query: SELECT "party_id","transaction_id" FROM (SELECT distinct party_id, transaction_id FROM
public.transaction_party_name) SPARK_GEN_SUBQ_4152 WHERE ("party_id" IS NOT NULL) AND ("transaction_id" IS NOT NULL)

(387) PhotonRowToColumnar
Input [2]: [party_id#13025, transaction_id#13026]

(388) PhotonShuffleExchangeSink
Input [2]: [party_id#13025, transaction_id#13026]
Arguments: hashpartitioning(transaction_id#13026, 200)

(389) PhotonShuffleMapStage
Input [2]: [party_id#13025, transaction_id#13026]
Arguments: ENSURE_REQUIREMENTS, [id=#155163]

(390) ShuffleQueryStage
Output [2]: [party_id#13025, transaction_id#13026]
Arguments: 42, Statistics(sizeInBytes=8.0 EiB, ColumnStat: N/A)

(391) Scan JDBCRelation((SELECT fc_transaction_id FROM publish.transactions WHERE fc_updated_at > '2000-04-16 12:00:00')
SPARK_GEN_SUBQ_4160) [numPartitions=1] [codegen id : 44]
Output [1]: [fc_transaction_id#13029]
Arguments: [fc_transaction_id#13029], [StructField(fc_transaction_id,StringType,true)], {IsNotNull(fc_transaction_id)},
{IsNotNull(fc_transaction_id)}, PushedDownOperators(None,None,None,None,List(),List()), JDBCRDD[1623] at Spark Connect - session_id:
"1b4f6863-c045-4bc4-8d01-46ee376b2f58"
user_context {
  user_id: "6106180720153940"
  user_name: "anton@forecasa...., JDBCRelation((SELECT fc_transaction_id FROM publish.transactions WHERE fc_updated_at > '2000-04-16
12:00:00') SPARK_GEN_SUBQ_4160) [numPartitions=1], Statistics(sizeInBytes=8.0 EiB, ColumnStat: N/A)
External engine query: SELECT "fc_transaction_id" FROM (SELECT fc_transaction_id FROM publish.transactions WHERE fc_updated_at > '2000-04-
16 12:00:00') SPARK_GEN_SUBQ_4160 WHERE ("fc_transaction_id" IS NOT NULL)

(392) PhotonRowToColumnar
Input [1]: [fc_transaction_id#13029]

(393) PhotonShuffleExchangeSink
Input [1]: [fc_transaction_id#13029]
```

Arguments: hashpartitioning(fc_transaction_id#13029, 200)

(394) PhotonShuffleMapStage

Input [1]: [fc_transaction_id#13029]

Arguments: ENSURE_REQUIREMENTS, [id=#155173]

(395) ShuffleQueryStage

Output [1]: [fc_transaction_id#13029]

Arguments: 43, Statistics(sizeInBytes=8.0 EiB, ColumnStat: N/A)

(396) ShuffledHashJoin

Left keys [1]: [transaction_id#13026]

Right keys [1]: [fc_transaction_id#13029]

Join type: LeftSemi

Join condition: None

(397) Project

Output [1]: [party_id#13025]

Input [2]: [party_id#13025, transaction_id#13026]

(398) HashAggregate

Input [1]: [party_id#13025]

Keys [1]: [party_id#13025]

Functions: []

Aggregate Attributes: []

Results [1]: [party_id#13025]

(399) Exchange

Input [1]: [party_id#13025]

Arguments: hashpartitioning(party_id#13025, 200), ENSURE_REQUIREMENTS, [plan_id=155179]

(400) HashAggregate

Input [1]: [party_id#13025]

Keys [1]: [party_id#13025]

Functions: []

Aggregate Attributes: []

Results [1]: [party_id#13025]

(401) Scan JDBCRelation((SELECT distinct party_id, transaction_id FROM public.transaction_party_cross_party) SPARK_GEN_SUBQ_4168)

[numPartitions=1] [codegen id : 45]

Output [2]: [party_id#13031, transaction_id#13032]

Arguments: [party_id#13031, transaction_id#13032], [StructField(party_id,IntegerType,true), StructField(transaction_id,StringType,true)], {NotNull(party_id), NotNull(transaction_id)}, {NotNull(party_id), NotNull(transaction_id)},

PushedDownOperators(None,None,None,None,List(),List()), JDBCRDD[1624] at Spark Connect - session_id: "1b4f6863-c045-4bc4-8d01-46ee376b2f58"

user_context {

user_id: "6106180720153940"

user_name: "anton@forecasa...., JDBCRelation((SELECT distinct party_id, transaction_id FROM public.transaction_party_cross_party)

SPARK_GEN_SUBQ_4168) [numPartitions=1], Statistics(sizeInBytes=8.0 EiB, ColumnStat: N/A)

External engine query: SELECT "party_id","transaction_id" FROM (SELECT distinct party_id, transaction_id FROM

public.transaction_party_cross_party) SPARK_GEN_SUBQ_4168 WHERE ("party_id" IS NOT NULL) AND ("transaction_id" IS NOT NULL)

(402) PhotonRowToColumnar

Input [2]: [party_id#13031, transaction_id#13032]

(403) PhotonShuffleExchangeSink

Input [2]: [party_id#13031, transaction_id#13032]

Arguments: hashpartitioning(transaction_id#13032, 200)

(404) PhotonShuffleMapStage

Input [2]: [party_id#13031, transaction_id#13032]

Arguments: ENSURE_REQUIREMENTS, [id=#155188]

(405) ShuffleQueryStage

Output [2]: [party_id#13031, transaction_id#13032]

Arguments: 44, Statistics(sizeInBytes=8.0 EiB, ColumnStat: N/A)

(406) Scan JDBCRelation((SELECT fc_transaction_id FROM publish.transactions WHERE fc_updated_at > '2000-04-16 12:00:00')

SPARK_GEN_SUBQ_4176) [numPartitions=1] [codegen id : 46]

Output [1]: [fc_transaction_id#13035]

Arguments: [fc_transaction_id#13035], [StructField(fc_transaction_id,StringType,true)], {NotNull(fc_transaction_id)},

{NotNull(fc_transaction_id)}, PushedDownOperators(None,None,None,None,List(),List()), JDBCRDD[1625] at Spark Connect - session_id:

"1b4f6863-c045-4bc4-8d01-46ee376b2f58"

user_context {

user_id: "6106180720153940"

user_name: "anton@forecasa...., JDBCRelation((SELECT fc_transaction_id FROM publish.transactions WHERE fc_updated_at > '2000-04-16 12:00:00') SPARK_GEN_SUBQ_4176) [numPartitions=1], Statistics(sizeInBytes=8.0 EiB, ColumnStat: N/A)

External engine query: SELECT "fc_transaction_id" FROM (SELECT fc_transaction_id FROM publish.transactions WHERE fc_updated_at > '2000-04-16 12:00:00') SPARK_GEN_SUBQ_4176 WHERE ("fc_transaction_id" IS NOT NULL)

(407) PhotonRowToColumnar

Input [1]: [fc_transaction_id#13035]

(408) PhotonShuffleExchangeSink
Input [1]: [fc_transaction_id#13035]
Arguments: hashpartitioning(fc_transaction_id#13035, 200)

(409) PhotonShuffleMapStage
Input [1]: [fc_transaction_id#13035]
Arguments: ENSURE_REQUIREMENTS, [id=#155198]

(410) ShuffleQueryStage
Output [1]: [fc_transaction_id#13035]
Arguments: 45, Statistics(sizeInBytes=8.0 EiB, ColumnStat: N/A)

(411) ShuffledHashJoin
Left keys [1]: [transaction_id#13032]
Right keys [1]: [fc_transaction_id#13035]
Join type: LeftSemi
Join condition: None

(412) Project
Output [1]: [party_id#13031]
Input [2]: [party_id#13031, transaction_id#13032]

(413) HashAggregate
Input [1]: [party_id#13031]
Keys [1]: [party_id#13031]
Functions: []
Aggregate Attributes: []
Results [1]: [party_id#13031]

(414) Exchange
Input [1]: [party_id#13031]
Arguments: hashpartitioning(party_id#13031, 200), ENSURE_REQUIREMENTS, [plan_id=155204]

(415) HashAggregate
Input [1]: [party_id#13031]
Keys [1]: [party_id#13031]
Functions: []
Aggregate Attributes: []
Results [1]: [party_id#13031]

(416) Union

(417) Exchange
Input [1]: [party_id#13025]
Arguments: hashpartitioning(party_id#13025, 200), ENSURE_REQUIREMENTS, [plan_id=155207]

(418) ShuffledHashJoin
Left keys [1]: [party_id#12996]
Right keys [1]: [party_id#13025]
Join type: Inner
Join condition: None

(419) Project
Output [2]: [party_id#12996, max#14228]
Input [3]: [party_id#12996, max#14228, party_id#13025]

(420) Sort
Input [2]: [party_id#12996, max#14228]
Arguments: [party_id#12996 ASC NULLS FIRST], false, 0

(421) SortAggregate
Input [2]: [party_id#12996, max#14228]
Keys [1]: [party_id#12996]
Functions [1]: [merge_max(merge max#14228) AS max#14228]
Aggregate Attributes [1]: [max#14228]
Results [2]: [party_id#12996, max#14228]

(422) SortAggregate
Input [2]: [party_id#12996, max#14228]
Keys [1]: [party_id#12996]
Functions [1]: [finalmerge_max(merge max#14228) AS max(fc_recorded_date#13012)#14062]
Aggregate Attributes [1]: [max(fc_recorded_date#13012)#14062]
Results [2]: [party_id#12996, max(fc_recorded_date#13012)#14062]

(423) Project
Output [2]: [party_id#12996, max(fc_recorded_date#13012)#14062 AS Last Sale Date#13104]
Input [2]: [party_id#12996, max(fc_recorded_date#13012)#14062]

(424) ShuffledHashJoin
Left keys [1]: [party_id#12418]
Right keys [1]: [party_id#12996]
Join type: LeftOuter
Join condition: None

(425) Project

Output [16]: [party_name#12417, party_id#12418, company_id#12419, deleted_at#12648, has_pdf#12649, Mortgage Transactions#12650L, Deed Transactions#12651L, Satisfaction of Mortgage Transactions#12652L, Assignment of Mortgage Transactions#12653L, lis_pendens_transactions#12654L, judgment_transactions#12655L, loan_modification_transactions#12656L, Most Recent Transaction#12879, fcdateupdated#12880, Last Purchase Date#12994, Last Sale Date#13104]

Input [17]: [party_name#12417, party_id#12418, company_id#12419, deleted_at#12648, has_pdf#12649, Mortgage Transactions#12650L, Deed Transactions#12651L, Satisfaction of Mortgage Transactions#12652L, Assignment of Mortgage Transactions#12653L, lis_pendens_transactions#12654L, judgment_transactions#12655L, loan_modification_transactions#12656L, Most Recent Transaction#12879, fcdateupdated#12880, Last Purchase Date#12994, party_id#12996, Last Sale Date#13104]

(426) LocalLimit

Input [16]: [party_name#12417, party_id#12418, company_id#12419, deleted_at#12648, has_pdf#12649, Mortgage Transactions#12650L, Deed Transactions#12651L, Satisfaction of Mortgage Transactions#12652L, Assignment of Mortgage Transactions#12653L, lis_pendens_transactions#12654L, judgment_transactions#12655L, loan_modification_transactions#12656L, Most Recent Transaction#12879, fcdateupdated#12880, Last Purchase Date#12994, Last Sale Date#13104]

Arguments: 21

(427) Scan JDBCRelation((SELECT party_name, party_id, company_id, deleted_at, updated_at FROM public.party) SPARK_GEN_SUBQ_4192)

[numPartitions=1] [codegen id : 47]

Output [5]: [party_name#13105, party_id#13106, company_id#13107, deleted_at#13108, updated_at#13109]

Arguments: [party_name#13105, party_id#13106, company_id#13107, deleted_at#13108, updated_at#13109],

[StructField(party_name,StringType,true), StructField(party_id,IntegerType,true), StructField(company_id,IntegerType,true),

StructField(deleted_at,TimestampType,true), StructField(updated_at,TimestampType,true)], {NotNull(party_id)}, {NotNull(party_id)},

PushedDownOperators(None,None,None,None,List(),List()), JDBCRDD[1626] at Spark Connect - session_id: "1b4f6863-c045-4bc4-8d01-

46ee376b2f58"

user_context {

user_id: "6106180720153940"

user_name: "anton@forecasa...., JDBCRelation((SELECT party_name, party_id, company_id, deleted_at, updated_at FROM public.party)

SPARK_GEN_SUBQ_4192) [numPartitions=1], Statistics(sizeInBytes=8.0 EiB, ColumnStat: N/A)

External engine query: SELECT "party_name","party_id","company_id","deleted_at","updated_at" FROM (SELECT party_name, party_id,

company_id, deleted_at, updated_at FROM public.party) SPARK_GEN_SUBQ_4192 WHERE ("party_id" IS NOT NULL)

(428) PhotonRowToColumnar

Input [5]: [party_name#13105, party_id#13106, company_id#13107, deleted_at#13108, updated_at#13109]

(429) PhotonShuffleExchangeSink

Input [5]: [party_name#13105, party_id#13106, company_id#13107, deleted_at#13108, updated_at#13109]

Arguments: hashpartitioning(party_id#13106, 200)

(430) PhotonShuffleMapStage

Input [5]: [party_name#13105, party_id#13106, company_id#13107, deleted_at#13108, updated_at#13109]

Arguments: ENSURE_REQUIREMENTS, [id=#155224]

(431) ShuffleQueryStage

Output [5]: [party_name#13105, party_id#13106, company_id#13107, deleted_at#13108, updated_at#13109]

Arguments: 46, Statistics(sizeInBytes=8.0 EiB, ColumnStat: N/A)

(432) Scan JDBCRelation((SELECT distinct party_id, transaction_id FROM public.transaction_party_name) SPARK_GEN_SUBQ_4200)

[numPartitions=1] [codegen id : 48]

Output [2]: [party_id#13115, transaction_id#13116]

Arguments: [party_id#13115, transaction_id#13116], [StructField(party_id,IntegerType,true), StructField(transaction_id,StringType,true)],

{NotNull(party_id)}, {NotNull(transaction_id)}, {NotNull(party_id)}, {NotNull(transaction_id)},

PushedDownOperators(None,None,None,None,List(),List()), JDBCRDD[1627] at Spark Connect - session_id: "1b4f6863-c045-4bc4-8d01-

46ee376b2f58"

user_context {

user_id: "6106180720153940"

user_name: "anton@forecasa...., JDBCRelation((SELECT distinct party_id, transaction_id FROM public.transaction_party_name)

SPARK_GEN_SUBQ_4200) [numPartitions=1], Statistics(sizeInBytes=8.0 EiB, ColumnStat: N/A)

External engine query: SELECT "party_id","transaction_id" FROM (SELECT distinct party_id, transaction_id FROM

public.transaction_party_name) SPARK_GEN_SUBQ_4200 WHERE ("party_id" IS NOT NULL) AND ("transaction_id" IS NOT NULL)

(433) PhotonRowToColumnar

Input [2]: [party_id#13115, transaction_id#13116]

(434) PhotonShuffleExchangeSink

Input [2]: [party_id#13115, transaction_id#13116]

Arguments: hashpartitioning(party_id#13115, 200)

(435) PhotonShuffleMapStage

Input [2]: [party_id#13115, transaction_id#13116]

Arguments: ENSURE_REQUIREMENTS, [id=#155234]

(436) ShuffleQueryStage

Output [2]: [party_id#13115, transaction_id#13116]

Arguments: 47, Statistics(sizeInBytes=8.0 EiB, ColumnStat: N/A)

(437) ShuffledHashJoin

Left keys [1]: [party_id#13106]

Right keys [1]: [party_id#13115]

Join type: Inner

Join condition: None

(438) Project

Output [6]: [party_id#13106, party_name#13105, company_id#13107, deleted_at#13108, updated_at#13109, transaction_id#13116]

Input [7]: [party_name#13105, party_id#13106, company_id#13107, deleted_at#13108, updated_at#13109, party_id#13115, transaction_id#13116]

(439) HashAggregate

Input [6]: [party_id#13106, party_name#13105, company_id#13107, deleted_at#13108, updated_at#13109, transaction_id#13116]

Keys [6]: [party_name#13105, party_id#13106, company_id#13107, deleted_at#13108, transaction_id#13116, updated_at#13109]

Functions: []

Aggregate Attributes: []

Results [6]: [party_name#13105, party_id#13106, company_id#13107, deleted_at#13108, transaction_id#13116, updated_at#13109]

(440) Exchange

Input [6]: [party_name#13105, party_id#13106, company_id#13107, deleted_at#13108, transaction_id#13116, updated_at#13109]

Arguments: hashpartitioning(transaction_id#13116, 200), ENSURE_REQUIREMENTS, [plan_id=155240]

(441) Scan JDBCRelation((

```
SELECT
  "County" as county,
  "Transaction_Type" as transaction_type,
  "FC_Transaction_Date" as fc_transaction_date,
  "FC_Recorded_Date" as fc_recorded_date,
  "FC_Cross_Party" as fc_cross_party,
  fcdateupdated,
  fctransactionid,
  "PDF_ID" as pdf_id
FROM public.transaction) SPARK_GEN_SUBQ_4208) [numPartitions=1] [codegen id : 49]
Output [7]: [county#13119, transaction_type#13120, fc_transaction_date#13121, fc_recorded_date#13122, fcdateupdated#13124,
fctransactionid#13125, pdf_id#13126]
Arguments: [county#13119, transaction_type#13120, fc_transaction_date#13121, fc_recorded_date#13122, fcdateupdated#13124,
fctransactionid#13125, pdf_id#13126], [StructField(county,StringType,true), StructField(transaction_type,StringType,true),
StructField(fc_transaction_date,StringType,true), StructField(fc_recorded_date,StringType,true),
StructField(fcdateupdated,TimestampType,true), StructField(fctransactionid,StringType,true), StructField(pdf_id,StringType,true)],
{NotNull(fctransactionid)}, {NotNull(fctransactionid)}, PushedDownOperators(None,None,None,None,List(),List()), JDBCRDD[1628] at Spark
Connect - session_id: "1b4f6863-c045-4bc4-8d01-46ee376b2f58"
```

user_context {

user_id: "6106180720153940"

user_name: "anton@forecasa...., JDBCRelation((

SELECT

```
"County" as county,
"Transaction_Type" as transaction_type,
"FC_Transaction_Date" as fc_transaction_date,
"FC_Recorded_Date" as fc_recorded_date,
"FC_Cross_Party" as fc_cross_party,
fcdateupdated,
fctransactionid,
"PDF_ID" as pdf_id
```

FROM public.transaction) SPARK_GEN_SUBQ_4208) [numPartitions=1], Statistics(sizeInBytes=8.0 EiB, ColumnStat: N/A)

External engine query: SELECT

```
"county","transaction_type","fc_transaction_date","fc_recorded_date","fcdateupdated","fctransactionid","pdf_id" FROM (
SELECT
```

```
"County" as county,
"Transaction_Type" as transaction_type,
"FC_Transaction_Date" as fc_transaction_date,
"FC_Recorded_Date" as fc_recorded_date,
"FC_Cross_Party" as fc_cross_party,
fcdateupdated,
fctransactionid,
"PDF_ID" as pdf_id
```

FROM public.transaction) SPARK_GEN_SUBQ_4208 WHERE ("fctransactionid" IS NOT NULL)

(442) PhotonRowToColumnar

Input [7]: [county#13119, transaction_type#13120, fc_transaction_date#13121, fc_recorded_date#13122, fcdateupdated#13124, fctransactionid#13125, pdf_id#13126]

(443) PhotonShuffleExchangeSink

Input [7]: [county#13119, transaction_type#13120, fc_transaction_date#13121, fc_recorded_date#13122, fcdateupdated#13124, fctransactionid#13125, pdf_id#13126]

Arguments: hashpartitioning(fctransactionid#13125, 200)

(444) PhotonShuffleMapStage

Input [7]: [county#13119, transaction_type#13120, fc_transaction_date#13121, fc_recorded_date#13122, fcdateupdated#13124, fctransactionid#13125, pdf_id#13126]

Arguments: ENSURE_REQUIREMENTS, [id=#155248]

(445) ShuffleQueryStage

Output [7]: [county#13119, transaction_type#13120, fc_transaction_date#13121, fc_recorded_date#13122, fcdateupdated#13124, fctransactionid#13125, pdf_id#13126]

Arguments: 48, Statistics(sizeInBytes=8.0 EiB, ColumnStat: N/A)

(446) ShuffledHashJoin

Left keys [1]: [transaction_id#13116]

Right keys [1]: [fctransactionid#13125]

Join type: Inner

Join condition: None

(447) Project

Output [11]: [party_name#13105, party_id#13106, company_id#13107, deleted_at#13108, county#13119, transaction_type#13120, fc_transaction_date#13121, fc_recorded_date#13122, greatest(fcdateupdated#13124, updated_at#13109) AS fcdateupdated#13165, fctransactionid#13125, pdf_id#13126]

Input [13]: [party_name#13105, party_id#13106, company_id#13107, deleted_at#13108, transaction_id#13116, updated_at#13109, county#13119, transaction_type#13120, fc_transaction_date#13121, fc_recorded_date#13122, fcdateupdated#13124, fctransactionid#13125, pdf_id#13126]

(448) HashAggregate

Input [11]: [party_name#13105, party_id#13106, company_id#13107, deleted_at#13108, county#13119, transaction_type#13120, fc_transaction_date#13121, fc_recorded_date#13122, fcdateupdated#13165, fctransactionid#13125, pdf_id#13126]

Keys [11]: [party_name#13105, party_id#13106, company_id#13107, deleted_at#13108, county#13119, transaction_type#13120, fc_transaction_date#13121, fc_recorded_date#13122, fcdateupdated#13165, fctransactionid#13125, pdf_id#13126]

Functions: []

Aggregate Attributes: []

Results [11]: [party_name#13105, party_id#13106, company_id#13107, deleted_at#13108, county#13119, transaction_type#13120, fc_transaction_date#13121, fc_recorded_date#13122, fcdateupdated#13165, fctransactionid#13125, pdf_id#13126]

(449) Exchange

Input [11]: [party_name#13105, party_id#13106, company_id#13107, deleted_at#13108, county#13119, transaction_type#13120, fc_transaction_date#13121, fc_recorded_date#13122, fcdateupdated#13165, fctransactionid#13125, pdf_id#13126]

Arguments: hashpartitioning(party_id#13106, 200), ENSURE_REQUIREMENTS, [plan_id=155254]

(450) Scan JDBCRelation((SELECT distinct party_id, transaction_id FROM public.transaction_party_name) SPARK_GEN_SUBQ_4216) [numPartitions=1] [codegen id : 50]

Output [2]: [party_id#13135, transaction_id#13136]

Arguments: [party_id#13135, transaction_id#13136], [StructField(party_id,IntegerType,true), StructField(transaction_id,StringType,true)], {NotNull(party_id), NotNull(transaction_id)}, {NotNull(party_id), NotNull(transaction_id)},

PushedDownOperators(None,None,None,None,List(),List()), JDBCRDD[1629] at Spark Connect - session_id: "1b4f6863-c045-4bc4-8d01-46ee376b2f58"

user_context {

user_id: "6106180720153940"

user_name: "anton@forecasa...", JDBCRelation((SELECT distinct party_id, transaction_id FROM public.transaction_party_name)

SPARK_GEN_SUBQ_4216) [numPartitions=1], Statistics(sizeInBytes=8.0 EiB, ColumnStat: N/A)

External engine query: SELECT "party_id","transaction_id" FROM (SELECT distinct party_id, transaction_id FROM

public.transaction_party_name) SPARK_GEN_SUBQ_4216 WHERE ("party_id" IS NOT NULL) AND ("transaction_id" IS NOT NULL)

(451) PhotonRowToColumnar

Input [2]: [party_id#13135, transaction_id#13136]

(452) PhotonShuffleExchangeSink

Input [2]: [party_id#13135, transaction_id#13136]

Arguments: hashpartitioning(transaction_id#13136, 200)

(453) PhotonShuffleMapStage

Input [2]: [party_id#13135, transaction_id#13136]

Arguments: ENSURE_REQUIREMENTS, [id=#155262]

(454) ShuffleQueryStage

Output [2]: [party_id#13135, transaction_id#13136]

Arguments: 49, Statistics(sizeInBytes=8.0 EiB, ColumnStat: N/A)

(455) Scan JDBCRelation((SELECT fc_transaction_id FROM publish.transactions WHERE fc_updated_at > '2000-04-16 12:00:00') SPARK_GEN_SUBQ_4224) [numPartitions=1] [codegen id : 51]

Output [1]: [fc_transaction_id#13139]

Arguments: [fc_transaction_id#13139], [StructField(fc_transaction_id,StringType,true)], {NotNull(fc_transaction_id)}, {NotNull(fc_transaction_id)}, PushedDownOperators(None,None,None,None,List(),List()), JDBCRDD[1630] at Spark Connect - session_id:

"1b4f6863-c045-4bc4-8d01-46ee376b2f58"

user_context {

user_id: "6106180720153940"

user_name: "anton@forecasa...", JDBCRelation((SELECT fc_transaction_id FROM publish.transactions WHERE fc_updated_at > '2000-04-16 12:00:00') SPARK_GEN_SUBQ_4224) [numPartitions=1], Statistics(sizeInBytes=8.0 EiB, ColumnStat: N/A)

External engine query: SELECT "fc_transaction_id" FROM (SELECT fc_transaction_id FROM publish.transactions WHERE fc_updated_at > '2000-04-16 12:00:00') SPARK_GEN_SUBQ_4224 WHERE ("fc_transaction_id" IS NOT NULL)

(456) PhotonRowToColumnar

Input [1]: [fc_transaction_id#13139]

(457) PhotonShuffleExchangeSink

Input [1]: [fc_transaction_id#13139]

Arguments: hashpartitioning(fc_transaction_id#13139, 200)

(458) PhotonShuffleMapStage

Input [1]: [fc_transaction_id#13139]

Arguments: ENSURE_REQUIREMENTS, [id=#155272]

(459) ShuffleQueryStage

Output [1]: [fc_transaction_id#13139]

Arguments: 50, Statistics(sizeInBytes=8.0 EiB, ColumnStat: N/A)

(460) ShuffledHashJoin

Left keys [1]: [transaction_id#13136]

```
Right keys [1]: [fc_transaction_id#13139]
Join type: LeftSemi
Join condition: None

(461) Project
Output [1]: [party_id#13135]
Input [2]: [party_id#13135, transaction_id#13136]

(462) HashAggregate
Input [1]: [party_id#13135]
Keys [1]: [party_id#13135]
Functions: []
Aggregate Attributes: []
Results [1]: [party_id#13135]

(463) Exchange
Input [1]: [party_id#13135]
Arguments: hashpartitioning(party_id#13135, 200), ENSURE_REQUIREMENTS, [plan_id=155278]

(464) HashAggregate
Input [1]: [party_id#13135]
Keys [1]: [party_id#13135]
Functions: []
Aggregate Attributes: []
Results [1]: [party_id#13135]

(465) Scan JDBCRelation((SELECT distinct party_id, transaction_id FROM public.transaction_party_cross_party) SPARK_GEN_SUBQ_4232)
[numPartitions=1] [codegen id : 52]
Output [2]: [party_id#13141, transaction_id#13142]
Arguments: [party_id#13141, transaction_id#13142], [StructField(party_id,IntegerType,true), StructField(transaction_id,StringType,true)],
{IsNotNull(party_id), IsNotNull(transaction_id)}, {IsNotNull(party_id), IsNotNull(transaction_id)},
PushedDownOperators(None,None,None,None,List(),List()), JDBCRDD[1631] at Spark Connect - session_id: "1b4f6863-c045-4bc4-8d01-46ee376b2f58"
user_context {
  user_id: "6106180720153940"
  user_name: "anton@forecasa..., JDBCRelation((SELECT distinct party_id, transaction_id FROM public.transaction_party_cross_party)
SPARK_GEN_SUBQ_4232) [numPartitions=1], Statistics(sizeInBytes=8.0 EiB, ColumnStat: N/A)
External engine query: SELECT "party_id","transaction_id" FROM (SELECT distinct party_id, transaction_id FROM
public.transaction_party_cross_party) SPARK_GEN_SUBQ_4232 WHERE ("party_id" IS NOT NULL) AND ("transaction_id" IS NOT NULL)

(466) PhotonRowToColumnar
Input [2]: [party_id#13141, transaction_id#13142]

(467) PhotonShuffleExchangeSink
Input [2]: [party_id#13141, transaction_id#13142]
Arguments: hashpartitioning(transaction_id#13142, 200)

(468) PhotonShuffleMapStage
Input [2]: [party_id#13141, transaction_id#13142]
Arguments: ENSURE_REQUIREMENTS, [id=#155287]

(469) ShuffleQueryStage
Output [2]: [party_id#13141, transaction_id#13142]
Arguments: 51, Statistics(sizeInBytes=8.0 EiB, ColumnStat: N/A)

(470) Scan JDBCRelation((SELECT fc_transaction_id FROM publish.transactions WHERE fc_updated_at > '2000-04-16 12:00:00')
SPARK_GEN_SUBQ_4240) [numPartitions=1] [codegen id : 53]
Output [1]: [fc_transaction_id#13145]
Arguments: [fc_transaction_id#13145], [StructField(fc_transaction_id,StringType,true)], {IsNotNull(fc_transaction_id)},
{IsNotNull(fc_transaction_id)}, PushedDownOperators(None,None,None,None,List(),List()), JDBCRDD[1632] at Spark Connect - session_id:
"1b4f6863-c045-4bc4-8d01-46ee376b2f58"
user_context {
  user_id: "6106180720153940"
  user_name: "anton@forecasa..., JDBCRelation((SELECT fc_transaction_id FROM publish.transactions WHERE fc_updated_at > '2000-04-16
12:00:00') SPARK_GEN_SUBQ_4240) [numPartitions=1], Statistics(sizeInBytes=8.0 EiB, ColumnStat: N/A)
External engine query: SELECT "fc_transaction_id" FROM (SELECT fc_transaction_id FROM publish.transactions WHERE fc_updated_at > '2000-04-
16 12:00:00') SPARK_GEN_SUBQ_4240 WHERE ("fc_transaction_id" IS NOT NULL)

(471) PhotonRowToColumnar
Input [1]: [fc_transaction_id#13145]

(472) PhotonShuffleExchangeSink
Input [1]: [fc_transaction_id#13145]
Arguments: hashpartitioning(fc_transaction_id#13145, 200)

(473) PhotonShuffleMapStage
Input [1]: [fc_transaction_id#13145]
Arguments: ENSURE_REQUIREMENTS, [id=#155297]

(474) ShuffleQueryStage
Output [1]: [fc_transaction_id#13145]
Arguments: 52, Statistics(sizeInBytes=8.0 EiB, ColumnStat: N/A)
```

(475) ShuffledHashJoin
Left keys [1]: [transaction_id#13142]
Right keys [1]: [fc_transaction_id#13145]
Join type: LeftSemi
Join condition: None

(476) Project
Output [1]: [party_id#13141]
Input [2]: [party_id#13141, transaction_id#13142]

(477) HashAggregate
Input [1]: [party_id#13141]
Keys [1]: [party_id#13141]
Functions: []
Aggregate Attributes: []
Results [1]: [party_id#13141]

(478) Exchange
Input [1]: [party_id#13141]
Arguments: hashpartitioning(party_id#13141, 200), ENSURE_REQUIREMENTS, [plan_id=155303]

(479) HashAggregate
Input [1]: [party_id#13141]
Keys [1]: [party_id#13141]
Functions: []
Aggregate Attributes: []
Results [1]: [party_id#13141]

(480) Union

(481) HashAggregate
Input [1]: [party_id#13135]
Keys [1]: [party_id#13135]
Functions: []
Aggregate Attributes: []
Results [1]: [party_id#13135]

(482) Exchange
Input [1]: [party_id#13135]
Arguments: hashpartitioning(party_id#13135, 200), ENSURE_REQUIREMENTS, [plan_id=155307]

(483) ShuffledHashJoin
Left keys [1]: [party_id#13106]
Right keys [1]: [party_id#13135]
Join type: LeftSemi
Join condition: None

(484) HashAggregate
Input [11]: [party_name#13105, party_id#13106, company_id#13107, deleted_at#13108, county#13119, transaction_type#13120, fc_transaction_date#13121, fc_recorded_date#13122, fcdateupdated#13165, fctransactionid#13125, pdf_id#13126]
Keys [11]: [party_name#13105, party_id#13106, company_id#13107, deleted_at#13108, county#13119, transaction_type#13120, fc_transaction_date#13121, fc_recorded_date#13122, fcdateupdated#13165, fctransactionid#13125, pdf_id#13126]
Functions: []
Aggregate Attributes: []
Results [11]: [party_name#13105, party_id#13106, company_id#13107, deleted_at#13108, county#13119, transaction_type#13120, fc_transaction_date#13121, fc_recorded_date#13122, fcdateupdated#13165, fctransactionid#13125, pdf_id#13126]

(485) Exchange
Input [11]: [party_name#13105, party_id#13106, company_id#13107, deleted_at#13108, county#13119, transaction_type#13120, fc_transaction_date#13121, fc_recorded_date#13122, fcdateupdated#13165, fctransactionid#13125, pdf_id#13126]
Arguments: hashpartitioning(pdf_id#13126, 200), ENSURE_REQUIREMENTS, [plan_id=155310]

(486) Scan JDBCRelation((SELECT pdf_id FROM public.pdf_record) SPARK_GEN_SUBQ_4248) [numPartitions=1] [codegen id : 54]
Output [1]: [pdf_id#13147]
Arguments: [pdf_id#13147], [StructField(pdf_id,StringType,true)], {IsNull(pdf_id)}, {IsNull(pdf_id)},
PushedDownOperators(None,None,None,None,List(),List()), JDBCRDD[1633] at Spark Connect - session_id: "1b4f6863-c045-4bc4-8d01-46ee376b2f58"
user_context {
 user_id: "6106180720153940"
 user_name: "anton@forecasa...., JDBCRelation((SELECT pdf_id FROM public.pdf_record) SPARK_GEN_SUBQ_4248) [numPartitions=1],
Statistics(sizeInBytes=8.0 EiB, ColumnStat: N/A)
External engine query: SELECT "pdf_id" FROM (SELECT pdf_id FROM public.pdf_record) SPARK_GEN_SUBQ_4248 WHERE ("pdf_id" IS NOT NULL)

(487) PhotonRowToColumnar
Input [1]: [pdf_id#13147]

(488) PhotonShuffleExchangeSink
Input [1]: [pdf_id#13147]
Arguments: hashpartitioning(pdf_id#13147, 200)

(489) PhotonShuffleMapStage
Input [1]: [pdf_id#13147]
Arguments: ENSURE_REQUIREMENTS, [id=#155318]

(490) ShuffleQueryStage
Output [1]: [pdf_id#13147]
Arguments: 53, Statistics(sizeInBytes=8.0 EiB, ColumnStat: N/A)

(491) ShuffledHashJoin
Left keys [1]: [pdf_id#13126]
Right keys [1]: [pdf_id#13147]
Join type: LeftOuter
Join condition: None

(492) Project
Output [11]: [party_name#13105, party_id#13106, company_id#13107, deleted_at#13108, county#13119, transaction_type#13120, fc_transaction_date#13121, fc_recorded_date#13122, fcdateupdated#13165, fctransactionid#13125, ((isnotnull(pdf_id#13147) AND (transaction_type#13120 = MORTGAGE)) <=> true) AS has_pdf#13197]
Input [12]: [party_name#13105, party_id#13106, company_id#13107, deleted_at#13108, county#13119, transaction_type#13120, fc_transaction_date#13121, fc_recorded_date#13122, fcdateupdated#13165, fctransactionid#13125, pdf_id#13126, pdf_id#13147]

(493) HashAggregate
Input [11]: [party_name#13105, party_id#13106, company_id#13107, deleted_at#13108, county#13119, transaction_type#13120, fc_transaction_date#13121, fc_recorded_date#13122, fcdateupdated#13165, fctransactionid#13125, has_pdf#13197]
Keys [11]: [party_name#13105, party_id#13106, company_id#13107, deleted_at#13108, county#13119, transaction_type#13120, fc_transaction_date#13121, fc_recorded_date#13122, fcdateupdated#13165, fctransactionid#13125, has_pdf#13197]
Functions: []
Aggregate Attributes: []
Results [11]: [party_name#13105, party_id#13106, company_id#13107, deleted_at#13108, county#13119, transaction_type#13120, fc_transaction_date#13121, fc_recorded_date#13122, fcdateupdated#13165, fctransactionid#13125, has_pdf#13197]

(494) Exchange
Input [11]: [party_name#13105, party_id#13106, company_id#13107, deleted_at#13108, county#13119, transaction_type#13120, fc_transaction_date#13121, fc_recorded_date#13122, fcdateupdated#13165, fctransactionid#13125, has_pdf#13197]
Arguments: hashpartitioning(party_name#13105, party_id#13106, company_id#13107, deleted_at#13108, county#13119, transaction_type#13120, fc_transaction_date#13121, fc_recorded_date#13122, fcdateupdated#13165, fctransactionid#13125, has_pdf#13197, 200), ENSURE_REQUIREMENTS, [plan_id=155324]

(495) HashAggregate
Input [11]: [party_name#13105, party_id#13106, company_id#13107, deleted_at#13108, county#13119, transaction_type#13120, fc_transaction_date#13121, fc_recorded_date#13122, fcdateupdated#13165, fctransactionid#13125, has_pdf#13197]
Keys [11]: [party_name#13105, party_id#13106, company_id#13107, deleted_at#13108, county#13119, transaction_type#13120, fc_transaction_date#13121, fc_recorded_date#13122, fcdateupdated#13165, fctransactionid#13125, has_pdf#13197]
Functions: []
Aggregate Attributes: []
Results [3]: [party_name#13105, party_id#13106, transaction_type#13120]

(496) HashAggregate
Input [3]: [party_name#13105, party_id#13106, transaction_type#13120]
Keys [3]: [party_name#13105, party_id#13106, Transaction_Type#13120]
Functions [1]: [partial_count(1) AS count#14237L]
Aggregate Attributes [1]: [count#14236L]
Results [4]: [party_name#13105, party_id#13106, Transaction_Type#13120, count#14237L]

(497) Exchange
Input [4]: [party_name#13105, party_id#13106, Transaction_Type#13120, count#14237L]
Arguments: hashpartitioning(party_name#13105, party_id#13106, Transaction_Type#13120, 200), ENSURE_REQUIREMENTS, [plan_id=155327]

(498) HashAggregate
Input [4]: [party_name#13105, party_id#13106, Transaction_Type#13120, count#14237L]
Keys [3]: [party_name#13105, party_id#13106, Transaction_Type#13120]
Functions [1]: [finalmerge_count(merge count#14237L) AS count(1)#14054L]
Aggregate Attributes [1]: [count(1)#14054L]
Results [4]: [party_name#13105, party_id#13106, CASE WHEN (Transaction_Type#13120 = DEED) THEN count(1)#14054L END AS Transactions as Seller#13215L, CASE WHEN (Transaction_Type#13120 = MORTGAGE) THEN count(1)#14054L END AS Transactions as Borrower#13216L]

(499) HashAggregate
Input [4]: [party_name#13105, party_id#13106, Transactions as Seller#13215L, Transactions as Borrower#13216L]
Keys [2]: [party_name#13105, party_id#13106]
Functions [2]: [partial_sum(Transactions as Seller#13215L) AS sum#14233L, partial_sum(Transactions as Borrower#13216L) AS sum#14235L]
Aggregate Attributes [2]: [sum#14232L, sum#14234L]
Results [4]: [party_name#13105, party_id#13106, sum#14233L, sum#14235L]

(500) Exchange
Input [4]: [party_name#13105, party_id#13106, sum#14233L, sum#14235L]
Arguments: hashpartitioning(party_name#13105, party_id#13106, 200), ENSURE_REQUIREMENTS, [plan_id=155330]

(501) HashAggregate
Input [4]: [party_name#13105, party_id#13106, sum#14233L, sum#14235L]
Keys [2]: [party_name#13105, party_id#13106]
Functions [2]: [finalmerge_sum(merge sum#14233L) AS sum(Transactions as Seller#13215L)#14078L, finalmerge_sum(merge sum#14235L) AS sum(Transactions as Borrower#13216L)#14079L]
Aggregate Attributes [2]: [sum(Transactions as Seller#13215L)#14078L, sum(Transactions as Borrower#13216L)#14079L]
Results [3]: [party_id#13106, sum(Transactions as Seller#13215L)#14078L AS Transactions as Seller#13217L, sum(Transactions as Borrower#13216L)#14079L AS Transactions as Borrower#13218L]

(502) Exchange

Input [3]: [party_id#13106, Transactions as Seller#13217L, Transactions as Borrower#13218L]

Arguments: hashpartitioning(party_id#13106, 200), ENSURE_REQUIREMENTS, [plan_id=155332]

(503) ShuffledHashJoin

Left keys [1]: [party_id#12418]

Right keys [1]: [party_id#13106]

Join type: LeftOuter

Join condition: None

(504) Project

Output [18]: [party_name#12417, party_id#12418, company_id#12419, deleted_at#12648, has_pdf#12649, Mortgage Transactions#12650L, Deed Transactions#12651L, Satisfaction of Mortgage Transactions#12652L, Assignment of Mortgage Transactions#12653L,

lis_pendens_transactions#12654L, judgment_transactions#12655L, loan_modification_transactions#12656L, Most Recent Transaction#12879, fcdateupdated#12880, Last Purchase Date#12994, Last Sale Date#13104, Transactions as Seller#13217L, Transactions as Borrower#13218L]

Input [19]: [party_name#12417, party_id#12418, company_id#12419, deleted_at#12648, has_pdf#12649, Mortgage Transactions#12650L, Deed Transactions#12651L, Satisfaction of Mortgage Transactions#12652L, Assignment of Mortgage Transactions#12653L,

lis_pendens_transactions#12654L, judgment_transactions#12655L, loan_modification_transactions#12656L, Most Recent Transaction#12879, fcdateupdated#12880, Last Purchase Date#12994, Last Sale Date#13104, party_id#13106, Transactions as Seller#13217L, Transactions as Borrower#13218L]

(505) LocalLimit

Input [18]: [party_name#12417, party_id#12418, company_id#12419, deleted_at#12648, has_pdf#12649, Mortgage Transactions#12650L, Deed Transactions#12651L, Satisfaction of Mortgage Transactions#12652L, Assignment of Mortgage Transactions#12653L,

lis_pendens_transactions#12654L, judgment_transactions#12655L, loan_modification_transactions#12656L, Most Recent Transaction#12879, fcdateupdated#12880, Last Purchase Date#12994, Last Sale Date#13104, Transactions as Seller#13217L, Transactions as Borrower#13218L]

Arguments: 21

(506) Scan JDBCRelation((SELECT party_name, party_id, company_id, deleted_at, updated_at FROM public.party) SPARK_GEN_SUBQ_4256)

[numPartitions=1] [codegen id : 55]

Output [5]: [party_name#13220, party_id#13221, company_id#13222, deleted_at#13223, updated_at#13224]

Arguments: [party_name#13220, party_id#13221, company_id#13222, deleted_at#13223, updated_at#13224],

[StructField(party_name,StringType,true), StructField(party_id,IntegerType,true), StructField(company_id,IntegerType,true),

StructField(deleted_at,TimestampType,true), StructField(updated_at,TimestampType,true)], {NotNull(party_id)}, {NotNull(party_id)},

PushedDownOperators(None,None,None,None,List(),List()), JDBCRDD[1634] at Spark Connect - session_id: "1b4f6863-c045-4bc4-8d01-

46ee376b2f58"

user_context {

user_id: "6106180720153940"

user_name: "anton@forecasa...", JDBCRelation((SELECT party_name, party_id, company_id, deleted_at, updated_at FROM public.party)

SPARK_GEN_SUBQ_4256) [numPartitions=1], Statistics(sizeInBytes=8.0 EiB, ColumnStat: N/A)

External engine query: SELECT "party_name","party_id","company_id","deleted_at","updated_at" FROM (SELECT party_name, party_id,

company_id, deleted_at, updated_at FROM public.party) SPARK_GEN_SUBQ_4256 WHERE ("party_id" IS NOT NULL)

(507) PhotonRowToColumnar

Input [5]: [party_name#13220, party_id#13221, company_id#13222, deleted_at#13223, updated_at#13224]

(508) PhotonShuffleExchangeSink

Input [5]: [party_name#13220, party_id#13221, company_id#13222, deleted_at#13223, updated_at#13224]

Arguments: hashpartitioning(party_id#13221, 200)

(509) PhotonShuffleMapStage

Input [5]: [party_name#13220, party_id#13221, company_id#13222, deleted_at#13223, updated_at#13224]

Arguments: ENSURE_REQUIREMENTS, [id=#155343]

(510) ShuffleQueryStage

Output [5]: [party_name#13220, party_id#13221, company_id#13222, deleted_at#13223, updated_at#13224]

Arguments: 54, Statistics(sizeInBytes=8.0 EiB, ColumnStat: N/A)

(511) Scan JDBCRelation((SELECT distinct party_id, transaction_id FROM public.transaction_party_cross_party) SPARK_GEN_SUBQ_4264)

[numPartitions=1] [codegen id : 56]

Output [2]: [party_id#13230, transaction_id#13231]

Arguments: [party_id#13230, transaction_id#13231], [StructField(party_id,IntegerType,true), StructField(transaction_id,StringType,true)],

{NotNull(party_id)}, {NotNull(transaction_id)}, {NotNull(party_id)}, {NotNull(transaction_id)},

PushedDownOperators(None,None,None,None,List(),List()), JDBCRDD[1635] at Spark Connect - session_id: "1b4f6863-c045-4bc4-8d01-

46ee376b2f58"

user_context {

user_id: "6106180720153940"

user_name: "anton@forecasa...", JDBCRelation((SELECT distinct party_id, transaction_id FROM public.transaction_party_cross_party)

SPARK_GEN_SUBQ_4264) [numPartitions=1], Statistics(sizeInBytes=8.0 EiB, ColumnStat: N/A)

External engine query: SELECT "party_id","transaction_id" FROM (SELECT distinct party_id, transaction_id FROM

public.transaction_party_cross_party) SPARK_GEN_SUBQ_4264 WHERE ("party_id" IS NOT NULL) AND ("transaction_id" IS NOT NULL)

(512) PhotonRowToColumnar

Input [2]: [party_id#13230, transaction_id#13231]

(513) PhotonShuffleExchangeSink

Input [2]: [party_id#13230, transaction_id#13231]

Arguments: hashpartitioning(party_id#13230, 200)

(514) PhotonShuffleMapStage

Input [2]: [party_id#13230, transaction_id#13231]

Arguments: ENSURE_REQUIREMENTS, [id=#155353]

```

(515) ShuffleQueryStage
Output [2]: [party_id#13230, transaction_id#13231]
Arguments: 55, Statistics(sizeInBytes=8.0 EiB, ColumnStat: N/A)

(516) ShuffledHashJoin
Left keys [1]: [party_id#13221]
Right keys [1]: [party_id#13230]
Join type: Inner
Join condition: None

(517) Project
Output [6]: [party_id#13221, party_name#13220, company_id#13222, deleted_at#13223, updated_at#13224, transaction_id#13231]
Input [7]: [party_name#13220, party_id#13221, company_id#13222, deleted_at#13223, updated_at#13224, party_id#13230, transaction_id#13231]

(518) HashAggregate
Input [6]: [party_id#13221, party_name#13220, company_id#13222, deleted_at#13223, updated_at#13224, transaction_id#13231]
Keys [6]: [party_name#13220, party_id#13221, company_id#13222, deleted_at#13223, transaction_id#13231, updated_at#13224]
Functions: []
Aggregate Attributes: []
Results [6]: [party_name#13220, party_id#13221, company_id#13222, deleted_at#13223, transaction_id#13231, updated_at#13224]

(519) Exchange
Input [6]: [party_name#13220, party_id#13221, company_id#13222, deleted_at#13223, transaction_id#13231, updated_at#13224]
Arguments: hashpartitioning(transaction_id#13231, 200), ENSURE_REQUIREMENTS, [plan_id=155359]

(520) Scan JDBCRelation((
SELECT
  "County" as county,
  "Transaction_Type" as transaction_type,
  "FC_Transaction_Date" as fc_transaction_date,
  "FC_Recorded_Date" as fc_recorded_date,
  "FC_Cross_Party" as fc_cross_party,
  fcdateupdated,
  fctransactionid,
  "PDF_ID" as pdf_id
FROM public.transaction) SPARK_GEN_SUBQ_4272) [numPartitions=1] [codegen id : 57]
Output [7]: [county#13234, transaction_type#13235, fc_transaction_date#13236, fc_recorded_date#13237, fcdateupdated#13239,
fctransactionid#13240, pdf_id#13241]
Arguments: [county#13234, transaction_type#13235, fc_transaction_date#13236, fc_recorded_date#13237, fcdateupdated#13239,
fctransactionid#13240, pdf_id#13241], [StructField(county,StringType,true), StructField(transaction_type,StringType,true),
StructField(fc_transaction_date,StringType,true), StructField(fc_recorded_date,StringType,true),
StructField(fcdateupdated,TimestampType,true), StructField(fctransactionid,StringType,true), StructField(pdf_id,StringType,true)],
{IsNotNull(fctransactionid)}, {IsNotNull(fctransactionid)}, PushedDownOperators(None,None,None,None,List(),List()), JDBCRDD[1636] at Spark
Connect - session_id: "1b4f6863-c045-4bc4-8d01-46ee376b2f58"
user_context {
  user_id: "6106180720153940"
  user_name: "anton@forecasa...., JDBCRelation((
SELECT
  "County" as county,
  "Transaction_Type" as transaction_type,
  "FC_Transaction_Date" as fc_transaction_date,
  "FC_Recorded_Date" as fc_recorded_date,
  "FC_Cross_Party" as fc_cross_party,
  fcdateupdated,
  fctransactionid,
  "PDF_ID" as pdf_id
FROM public.transaction) SPARK_GEN_SUBQ_4272) [numPartitions=1], Statistics(sizeInBytes=8.0 EiB, ColumnStat: N/A)
External engine query: SELECT
"county","transaction_type","fc_transaction_date","fc_recorded_date","fcdateupdated","fctransactionid","pdf_id" FROM (
SELECT
  "County" as county,
  "Transaction_Type" as transaction_type,
  "FC_Transaction_Date" as fc_transaction_date,
  "FC_Recorded_Date" as fc_recorded_date,
  "FC_Cross_Party" as fc_cross_party,
  fcdateupdated,
  fctransactionid,
  "PDF_ID" as pdf_id
FROM public.transaction) SPARK_GEN_SUBQ_4272 WHERE ("fctransactionid" IS NOT NULL)

(521) PhotonRowToColumnar
Input [7]: [county#13234, transaction_type#13235, fc_transaction_date#13236, fc_recorded_date#13237, fcdateupdated#13239,
fctransactionid#13240, pdf_id#13241]

(522) PhotonShuffleExchangeSink
Input [7]: [county#13234, transaction_type#13235, fc_transaction_date#13236, fc_recorded_date#13237, fcdateupdated#13239,
fctransactionid#13240, pdf_id#13241]
Arguments: hashpartitioning(fctransactionid#13240, 200)

(523) PhotonShuffleMapStage
Input [7]: [county#13234, transaction_type#13235, fc_transaction_date#13236, fc_recorded_date#13237, fcdateupdated#13239,
fctransactionid#13240, pdf_id#13241]
Arguments: ENSURE_REQUIREMENTS, [id=#155367]

```



```
(524) ShuffleQueryStage
Output [7]: [county#13234, transaction_type#13235, fc_transaction_date#13236, fc_recorded_date#13237, fcdateupdated#13239,
fctransactionid#13240, pdf_id#13241]
Arguments: 56, Statistics(sizeInBytes=8.0 EiB, ColumnStat: N/A)

(525) ShuffledHashJoin
Left keys [1]: [transaction_id#13231]
Right keys [1]: [fctransactionid#13240]
Join type: Inner
Join condition: None

(526) Project
Output [11]: [party_name#13220, party_id#13221, company_id#13222, deleted_at#13223, county#13234, transaction_type#13235,
fc_transaction_date#13236, fc_recorded_date#13237, greatest(fcdateupdated#13239, updated_at#13224) AS fcdateupdated#13281,
fctransactionid#13240, pdf_id#13241]
Input [13]: [party_name#13220, party_id#13221, company_id#13222, deleted_at#13223, transaction_id#13231, updated_at#13224, county#13234,
transaction_type#13235, fc_transaction_date#13236, fc_recorded_date#13237, fcdateupdated#13239, fctransactionid#13240, pdf_id#13241]

(527) HashAggregate
Input [11]: [party_name#13220, party_id#13221, company_id#13222, deleted_at#13223, county#13234, transaction_type#13235,
fc_transaction_date#13236, fc_recorded_date#13237, fcdateupdated#13281, fctransactionid#13240, pdf_id#13241]
Keys [11]: [party_name#13220, party_id#13221, company_id#13222, deleted_at#13223, county#13234, transaction_type#13235,
fc_transaction_date#13236, fc_recorded_date#13237, fcdateupdated#13281, fctransactionid#13240, pdf_id#13241]
Functions: []
Aggregate Attributes: []
Results [11]: [party_name#13220, party_id#13221, company_id#13222, deleted_at#13223, county#13234, transaction_type#13235,
fc_transaction_date#13236, fc_recorded_date#13237, fcdateupdated#13281, fctransactionid#13240, pdf_id#13241]

(528) Exchange
Input [11]: [party_name#13220, party_id#13221, company_id#13222, deleted_at#13223, county#13234, transaction_type#13235,
fc_transaction_date#13236, fc_recorded_date#13237, fcdateupdated#13281, fctransactionid#13240, pdf_id#13241]
Arguments: hashpartitioning(party_id#13221, 200), ENSURE_REQUIREMENTS, [plan_id=155373]

(529) Scan JDBCRelation((SELECT distinct party_id, transaction_id FROM public.transaction_party_name) SPARK_GEN_SUBQ_4280)
[numPartitions=1] [codegen id : 58]
Output [2]: [party_id#13250, transaction_id#13251]
Arguments: [party_id#13250, transaction_id#13251], [StructField(party_id,IntegerType,true), StructField(transaction_id,StringType,true)],
{NotNull(party_id), NotNull(transaction_id)}, {NotNull(party_id), NotNull(transaction_id)},
PushedDownOperators(None,None,None,None,List(),List()), JDBCRDD[1637] at Spark Connect - session_id: "1b4f6863-c045-4bc4-8d01-
46ee376b2f58"
user_context {
  user_id: "6106180720153940"
  user_name: "anton@forecasa...., JDBCRelation((SELECT distinct party_id, transaction_id FROM public.transaction_party_name)
SPARK_GEN_SUBQ_4280) [numPartitions=1], Statistics(sizeInBytes=8.0 EiB, ColumnStat: N/A)
External engine query: SELECT "party_id","transaction_id" FROM (SELECT distinct party_id, transaction_id FROM
public.transaction_party_name) SPARK_GEN_SUBQ_4280 WHERE ("party_id" IS NOT NULL) AND ("transaction_id" IS NOT NULL)

(530) PhotonRowToColumnar
Input [2]: [party_id#13250, transaction_id#13251]

(531) PhotonShuffleExchangeSink
Input [2]: [party_id#13250, transaction_id#13251]
Arguments: hashpartitioning(transaction_id#13251, 200)

(532) PhotonShuffleMapStage
Input [2]: [party_id#13250, transaction_id#13251]
Arguments: ENSURE_REQUIREMENTS, [id=#155381]

(533) ShuffleQueryStage
Output [2]: [party_id#13250, transaction_id#13251]
Arguments: 57, Statistics(sizeInBytes=8.0 EiB, ColumnStat: N/A)

(534) Scan JDBCRelation((SELECT fc_transaction_id FROM publish.transactions WHERE fc_updated_at > '2000-04-16 12:00:00')
SPARK_GEN_SUBQ_4288) [numPartitions=1] [codegen id : 59]
Output [1]: [fc_transaction_id#13254]
Arguments: [fc_transaction_id#13254], [StructField(fc_transaction_id,StringType,true)], {NotNull(fc_transaction_id)},
{NotNull(fc_transaction_id)}, PushedDownOperators(None,None,None,None,List(),List()), JDBCRDD[1638] at Spark Connect - session_id:
"1b4f6863-c045-4bc4-8d01-46ee376b2f58"
user_context {
  user_id: "6106180720153940"
  user_name: "anton@forecasa...., JDBCRelation((SELECT fc_transaction_id FROM publish.transactions WHERE fc_updated_at > '2000-04-16
12:00:00') SPARK_GEN_SUBQ_4288) [numPartitions=1], Statistics(sizeInBytes=8.0 EiB, ColumnStat: N/A)
External engine query: SELECT "fc_transaction_id" FROM (SELECT fc_transaction_id FROM publish.transactions WHERE fc_updated_at > '2000-04-
16 12:00:00') SPARK_GEN_SUBQ_4288 WHERE ("fc_transaction_id" IS NOT NULL)

(535) PhotonRowToColumnar
Input [1]: [fc_transaction_id#13254]

(536) PhotonShuffleExchangeSink
Input [1]: [fc_transaction_id#13254]
Arguments: hashpartitioning(fc_transaction_id#13254, 200)
```

```
(537) PhotonShuffleMapStage
Input [1]: [fc_transaction_id#13254]
Arguments: ENSURE_REQUIREMENTS, [id=#155391]

(538) ShuffleQueryStage
Output [1]: [fc_transaction_id#13254]
Arguments: 58, Statistics(sizeInBytes=8.0 EiB, ColumnStat: N/A)

(539) ShuffledHashJoin
Left keys [1]: [transaction_id#13251]
Right keys [1]: [fc_transaction_id#13254]
Join type: LeftSemi
Join condition: None

(540) Project
Output [1]: [party_id#13250]
Input [2]: [party_id#13250, transaction_id#13251]

(541) HashAggregate
Input [1]: [party_id#13250]
Keys [1]: [party_id#13250]
Functions: []
Aggregate Attributes: []
Results [1]: [party_id#13250]

(542) Exchange
Input [1]: [party_id#13250]
Arguments: hashpartitioning(party_id#13250, 200), ENSURE_REQUIREMENTS, [plan_id=155397]

(543) HashAggregate
Input [1]: [party_id#13250]
Keys [1]: [party_id#13250]
Functions: []
Aggregate Attributes: []
Results [1]: [party_id#13250]

(544) Scan JDBCRelation((SELECT distinct party_id, transaction_id FROM public.transaction_party_cross_party) SPARK_GEN_SUBQ_4296)
[numPartitions=1] [codegen id : 60]
Output [2]: [party_id#13256, transaction_id#13257]
Arguments: [party_id#13256, transaction_id#13257], [StructField(party_id,IntegerType,true), StructField(transaction_id,StringType,true)],
{NotNull(party_id), NotNull(transaction_id)}, {NotNull(party_id), NotNull(transaction_id)},
PushedDownOperators(None,None,None,None,List(),List()), JDBCRDD[1639] at Spark Connect - session_id: "1b4f6863-c045-4bc4-8d01-46ee376b2f58"
user_context {
  user_id: "6106180720153940"
  user_name: "anton@forecasa...., JDBCRelation((SELECT distinct party_id, transaction_id FROM public.transaction_party_cross_party)
SPARK_GEN_SUBQ_4296) [numPartitions=1], Statistics(sizeInBytes=8.0 EiB, ColumnStat: N/A)
External engine query: SELECT "party_id","transaction_id" FROM (SELECT distinct party_id, transaction_id FROM
public.transaction_party_cross_party) SPARK_GEN_SUBQ_4296 WHERE ("party_id" IS NOT NULL) AND ("transaction_id" IS NOT NULL)

(545) PhotonRowToColumnar
Input [2]: [party_id#13256, transaction_id#13257]

(546) PhotonShuffleExchangeSink
Input [2]: [party_id#13256, transaction_id#13257]
Arguments: hashpartitioning(transaction_id#13257, 200)

(547) PhotonShuffleMapStage
Input [2]: [party_id#13256, transaction_id#13257]
Arguments: ENSURE_REQUIREMENTS, [id=#155406]

(548) ShuffleQueryStage
Output [2]: [party_id#13256, transaction_id#13257]
Arguments: 59, Statistics(sizeInBytes=8.0 EiB, ColumnStat: N/A)

(549) Scan JDBCRelation((SELECT fc_transaction_id FROM publish.transactions WHERE fc_updated_at > '2000-04-16 12:00:00')
SPARK_GEN_SUBQ_4304) [numPartitions=1] [codegen id : 61]
Output [1]: [fc_transaction_id#13260]
Arguments: [fc_transaction_id#13260], [StructField(fc_transaction_id,StringType,true)], {NotNull(fc_transaction_id)},
{NotNull(fc_transaction_id)}, PushedDownOperators(None,None,None,None,List(),List()), JDBCRDD[1640] at Spark Connect - session_id:
"1b4f6863-c045-4bc4-8d01-46ee376b2f58"
user_context {
  user_id: "6106180720153940"
  user_name: "anton@forecasa...., JDBCRelation((SELECT fc_transaction_id FROM publish.transactions WHERE fc_updated_at > '2000-04-16
12:00:00') SPARK_GEN_SUBQ_4304) [numPartitions=1], Statistics(sizeInBytes=8.0 EiB, ColumnStat: N/A)
External engine query: SELECT "fc_transaction_id" FROM (SELECT fc_transaction_id FROM publish.transactions WHERE fc_updated_at > '2000-04-
16 12:00:00') SPARK_GEN_SUBQ_4304 WHERE ("fc_transaction_id" IS NOT NULL)

(550) PhotonRowToColumnar
Input [1]: [fc_transaction_id#13260]

(551) PhotonShuffleExchangeSink
Input [1]: [fc_transaction_id#13260]
```

Arguments: hashpartitioning(fc_transaction_id#13260, 200)

(552) PhotonShuffleMapStage

Input [1]: [fc_transaction_id#13260]

Arguments: ENSURE_REQUIREMENTS, [id=#155416]

(553) ShuffleQueryStage

Output [1]: [fc_transaction_id#13260]

Arguments: 60, Statistics(sizeInBytes=8.0 EiB, ColumnStat: N/A)

(554) ShuffledHashJoin

Left keys [1]: [transaction_id#13257]

Right keys [1]: [fc_transaction_id#13260]

Join type: LeftSemi

Join condition: None

(555) Project

Output [1]: [party_id#13256]

Input [2]: [party_id#13256, transaction_id#13257]

(556) HashAggregate

Input [1]: [party_id#13256]

Keys [1]: [party_id#13256]

Functions: []

Aggregate Attributes: []

Results [1]: [party_id#13256]

(557) Exchange

Input [1]: [party_id#13256]

Arguments: hashpartitioning(party_id#13256, 200), ENSURE_REQUIREMENTS, [plan_id=155422]

(558) HashAggregate

Input [1]: [party_id#13256]

Keys [1]: [party_id#13256]

Functions: []

Aggregate Attributes: []

Results [1]: [party_id#13256]

(559) Union

(560) HashAggregate

Input [1]: [party_id#13250]

Keys [1]: [party_id#13250]

Functions: []

Aggregate Attributes: []

Results [1]: [party_id#13250]

(561) Exchange

Input [1]: [party_id#13250]

Arguments: hashpartitioning(party_id#13250, 200), ENSURE_REQUIREMENTS, [plan_id=155426]

(562) ShuffledHashJoin

Left keys [1]: [party_id#13221]

Right keys [1]: [party_id#13250]

Join type: LeftSemi

Join condition: None

(563) HashAggregate

Input [11]: [party_name#13220, party_id#13221, company_id#13222, deleted_at#13223, county#13234, transaction_type#13235, fc_transaction_date#13236, fc_recorded_date#13237, fcdateupdated#13281, fctransactionid#13240, pdf_id#13241]

Keys [11]: [party_name#13220, party_id#13221, company_id#13222, deleted_at#13223, county#13234, transaction_type#13235, fc_transaction_date#13236, fc_recorded_date#13237, fcdateupdated#13281, fctransactionid#13240, pdf_id#13241]

Functions: []

Aggregate Attributes: []

Results [11]: [party_name#13220, party_id#13221, company_id#13222, deleted_at#13223, county#13234, transaction_type#13235, fc_transaction_date#13236, fc_recorded_date#13237, fcdateupdated#13281, fctransactionid#13240, pdf_id#13241]

(564) Exchange

Input [11]: [party_name#13220, party_id#13221, company_id#13222, deleted_at#13223, county#13234, transaction_type#13235, fc_transaction_date#13236, fc_recorded_date#13237, fcdateupdated#13281, fctransactionid#13240, pdf_id#13241]

Arguments: hashpartitioning(pdf_id#13241, 200), ENSURE_REQUIREMENTS, [plan_id=155429]

(565) Scan JDBCRelation((SELECT pdf_id FROM public.pdf_record) SPARK_GEN_SUBQ_4312) [numPartitions=1] [codegen id : 62]

Output [1]: [pdf_id#13262]

Arguments: [pdf_id#13262], [StructField(pdf_id,StringType,true)], {NotNull(pdf_id)}, {NotNull(pdf_id)},

PushedDownOperators(None,None,None,None,List(),List()), JDBCRDD[1641] at Spark Connect - session_id: "1b4f6863-c045-4bc4-8d01-46ee376b2f58"

user_context {

user_id: "6106180720153940"

user_name: "anton@forecasa..., JDBCRelation((SELECT pdf_id FROM public.pdf_record) SPARK_GEN_SUBQ_4312) [numPartitions=1],

Statistics(sizeInBytes=8.0 EiB, ColumnStat: N/A)

External engine query: SELECT "pdf_id" FROM (SELECT pdf_id FROM public.pdf_record) SPARK_GEN_SUBQ_4312 WHERE ("pdf_id" IS NOT NULL)

(566) PhotonRowToColumnar

Input [1]: [pdf_id#13262]

(567) PhotonShuffleExchangeSink

Input [1]: [pdf_id#13262]

Arguments: hashpartitioning(pdf_id#13262, 200)

(568) PhotonShuffleMapStage

Input [1]: [pdf_id#13262]

Arguments: ENSURE_REQUIREMENTS, [id=#155437]

(569) ShuffleQueryStage

Output [1]: [pdf_id#13262]

Arguments: 61, Statistics(sizeInBytes=8.0 EiB, ColumnStat: N/A)

(570) ShuffledHashJoin

Left keys [1]: [pdf_id#13241]

Right keys [1]: [pdf_id#13262]

Join type: LeftOuter

Join condition: None

(571) Project

Output [11]: [party_name#13220, party_id#13221, company_id#13222, deleted_at#13223, county#13234, transaction_type#13235, fc_transaction_date#13236, fc_recorded_date#13237, fcdateupdated#13281, fctransactionid#13240, ((isnotnull(pdf_id#13262) AND (transaction_type#13235 = MORTGAGE)) <=> true) AS has_pdf#13315]

Input [12]: [party_name#13220, party_id#13221, company_id#13222, deleted_at#13223, county#13234, transaction_type#13235, fc_transaction_date#13236, fc_recorded_date#13237, fcdateupdated#13281, fctransactionid#13240, pdf_id#13241, pdf_id#13262]

(572) HashAggregate

Input [11]: [party_name#13220, party_id#13221, company_id#13222, deleted_at#13223, county#13234, transaction_type#13235, fc_transaction_date#13236, fc_recorded_date#13237, fcdateupdated#13281, fctransactionid#13240, has_pdf#13315]

Keys [11]: [party_name#13220, party_id#13221, company_id#13222, deleted_at#13223, county#13234, transaction_type#13235, fc_transaction_date#13236, fc_recorded_date#13237, fcdateupdated#13281, fctransactionid#13240, has_pdf#13315]

Functions: []

Aggregate Attributes: []

Results [11]: [party_name#13220, party_id#13221, company_id#13222, deleted_at#13223, county#13234, transaction_type#13235, fc_transaction_date#13236, fc_recorded_date#13237, fcdateupdated#13281, fctransactionid#13240, has_pdf#13315]

(573) Exchange

Input [11]: [party_name#13220, party_id#13221, company_id#13222, deleted_at#13223, county#13234, transaction_type#13235, fc_transaction_date#13236, fc_recorded_date#13237, fcdateupdated#13281, fctransactionid#13240, has_pdf#13315]

Arguments: hashpartitioning(party_name#13220, party_id#13221, company_id#13222, deleted_at#13223, county#13234, transaction_type#13235, fc_transaction_date#13236, fc_recorded_date#13237, fcdateupdated#13281, fctransactionid#13240, has_pdf#13315, 200), ENSURE_REQUIREMENTS, [plan_id=155443]

(574) HashAggregate

Input [11]: [party_name#13220, party_id#13221, company_id#13222, deleted_at#13223, county#13234, transaction_type#13235, fc_transaction_date#13236, fc_recorded_date#13237, fcdateupdated#13281, fctransactionid#13240, has_pdf#13315]

Keys [11]: [party_name#13220, party_id#13221, company_id#13222, deleted_at#13223, county#13234, transaction_type#13235, fc_transaction_date#13236, fc_recorded_date#13237, fcdateupdated#13281, fctransactionid#13240, has_pdf#13315]

Functions: []

Aggregate Attributes: []

Results [3]: [party_name#13220, party_id#13221, transaction_type#13235]

(575) HashAggregate

Input [3]: [party_name#13220, party_id#13221, transaction_type#13235]

Keys [3]: [party_name#13220, party_id#13221, Transaction_Type#13235]

Functions [1]: [partial_count(1) AS count#14246L]

Aggregate Attributes [1]: [count#14245L]

Results [4]: [party_name#13220, party_id#13221, Transaction_Type#13235, count#14246L]

(576) Exchange

Input [4]: [party_name#13220, party_id#13221, Transaction_Type#13235, count#14246L]

Arguments: hashpartitioning(party_name#13220, party_id#13221, Transaction_Type#13235, 200), ENSURE_REQUIREMENTS, [plan_id=155446]

(577) HashAggregate

Input [4]: [party_name#13220, party_id#13221, Transaction_Type#13235, count#14246L]

Keys [3]: [party_name#13220, party_id#13221, Transaction_Type#13235]

Functions [1]: [finalmerge_count(merge count#14246L) AS count(1)#14057L]

Aggregate Attributes [1]: [count(1)#14057L]

Results [4]: [party_name#13220, party_id#13221, CASE WHEN (Transaction_Type#13235 = DEED) THEN count(1)#14057L END AS Transactions as Buyer#13334L, CASE WHEN (Transaction_Type#13235 = MORTGAGE) THEN count(1)#14057L END AS Transactions as Lender#13335L]

(578) HashAggregate

Input [4]: [party_name#13220, party_id#13221, Transactions as Buyer#13334L, Transactions as Lender#13335L]

Keys [2]: [party_name#13220, party_id#13221]

Functions [2]: [partial_sum(Transactions as Buyer#13334L) AS sum#14242L, partial_sum(Transactions as Lender#13335L) AS sum#14244L]

Aggregate Attributes [2]: [sum#14241L, sum#14243L]

Results [4]: [party_name#13220, party_id#13221, sum#14242L, sum#14244L]

(579) Exchange

Input [4]: [party_name#13220, party_id#13221, sum#14242L, sum#14244L]

Arguments: hashpartitioning(party_name#13220, party_id#13221, 200), ENSURE_REQUIREMENTS, [plan_id=155449]

(580) HashAggregate

Input [4]: [party_name#13220, party_id#13221, sum#14242L, sum#14244L]

Keys [2]: [party_name#13220, party_id#13221]

Functions [2]: [finalmerge_sum(merge sum#14242L) AS sum(Transactions as Buyer#13334L)#14064L, finalmerge_sum(merge sum#14244L) AS sum(Transactions as Lender#13335L)#14065L]

Aggregate Attributes [2]: [sum(Transactions as Buyer#13334L)#14064L, sum(Transactions as Lender#13335L)#14065L]

Results [3]: [party_id#13221, sum(Transactions as Buyer#13334L)#14064L AS Transactions as Buyer#13336L, sum(Transactions as Lender#13335L)#14065L AS Transactions as Lender#13337L]

(581) Exchange

Input [3]: [party_id#13221, Transactions as Buyer#13336L, Transactions as Lender#13337L]

Arguments: hashpartitioning(party_id#13221, 200), ENSURE_REQUIREMENTS, [plan_id=155451]

(582) ShuffledHashJoin

Left keys [1]: [party_id#12418]

Right keys [1]: [party_id#13221]

Join type: LeftOuter

Join condition: None

(583) Project

Output [20]: [party_name#12417, party_id#12418, company_id#12419, deleted_at#12648, has_pdf#12649, Mortgage Transactions#12650L, Deed Transactions#12651L, Satisfaction of Mortgage Transactions#12652L, Assignment of Mortgage Transactions#12653L, lis_pendens_transactions#12654L, judgment_transactions#12655L, loan_modification_transactions#12656L, Most Recent Transaction#12879, fcdateupdated#12880, Last Purchase Date#12994, Last Sale Date#13104, Transactions as Seller#13217L, Transactions as Borrower#13218L, Transactions as Buyer#13336L, Transactions as Lender#13337L]

Input [21]: [party_name#12417, party_id#12418, company_id#12419, deleted_at#12648, has_pdf#12649, Mortgage Transactions#12650L, Deed Transactions#12651L, Satisfaction of Mortgage Transactions#12652L, Assignment of Mortgage Transactions#12653L, lis_pendens_transactions#12654L, judgment_transactions#12655L, loan_modification_transactions#12656L, Most Recent Transaction#12879, fcdateupdated#12880, Last Purchase Date#12994, Last Sale Date#13104, Transactions as Seller#13217L, Transactions as Borrower#13218L, party_id#13221, Transactions as Buyer#13336L, Transactions as Lender#13337L]

(584) LocalLimit

Input [20]: [party_name#12417, party_id#12418, company_id#12419, deleted_at#12648, has_pdf#12649, Mortgage Transactions#12650L, Deed Transactions#12651L, Satisfaction of Mortgage Transactions#12652L, Assignment of Mortgage Transactions#12653L, lis_pendens_transactions#12654L, judgment_transactions#12655L, loan_modification_transactions#12656L, Most Recent Transaction#12879, fcdateupdated#12880, Last Purchase Date#12994, Last Sale Date#13104, Transactions as Seller#13217L, Transactions as Borrower#13218L, Transactions as Buyer#13336L, Transactions as Lender#13337L]

Arguments: 21

(585) Scan JDBCRelation((SELECT party_name, party_id, company_id, deleted_at, updated_at FROM public.party) SPARK_GEN_SUBQ_4320)

[numPartitions=1] [codegen id : 63]

Output [5]: [party_name#13338, party_id#13339, company_id#13340, deleted_at#13341, updated_at#13342]

Arguments: [party_name#13338, party_id#13339, company_id#13340, deleted_at#13341, updated_at#13342],

[StructField(party_name,StringType,true), StructField(party_id,IntegerType,true), StructField(company_id,IntegerType,true),

StructField(deleted_at,TimestampType,true), StructField(updated_at,TimestampType,true)], {NotNull(party_id)}, {NotNull(party_id)},

PushedDownOperators(None,None,None,None,List(),List()), JDBCRDD[1642] at Spark Connect - session_id: "1b4f6863-c045-4bc4-8d01-46ee376b2f58"

user_context {

user_id: "6106180720153940"

user_name: "anton@forecasa...., JDBCRelation((SELECT party_name, party_id, company_id, deleted_at, updated_at FROM public.party) SPARK_GEN_SUBQ_4320) [numPartitions=1], Statistics(sizeInBytes=8.0 EiB, ColumnStat: N/A)

External engine query: SELECT "party_name","party_id","company_id","deleted_at","updated_at" FROM (SELECT party_name, party_id, company_id, deleted_at, updated_at FROM public.party) SPARK_GEN_SUBQ_4320 WHERE ("party_id" IS NOT NULL)

(586) PhotonRowToColumnar

Input [5]: [party_name#13338, party_id#13339, company_id#13340, deleted_at#13341, updated_at#13342]

(587) PhotonShuffleExchangeSink

Input [5]: [party_name#13338, party_id#13339, company_id#13340, deleted_at#13341, updated_at#13342]

Arguments: hashpartitioning(party_id#13339, 200)

(588) PhotonShuffleMapStage

Input [5]: [party_name#13338, party_id#13339, company_id#13340, deleted_at#13341, updated_at#13342]

Arguments: ENSURE_REQUIREMENTS, [id=#155462]

(589) ShuffleQueryStage

Output [5]: [party_name#13338, party_id#13339, company_id#13340, deleted_at#13341, updated_at#13342]

Arguments: 62, Statistics(sizeInBytes=8.0 EiB, ColumnStat: N/A)

(590) Scan JDBCRelation((SELECT distinct party_id, transaction_id FROM public.transaction_party_name) SPARK_GEN_SUBQ_4328)

[numPartitions=1] [codegen id : 64]

Output [2]: [party_id#13348, transaction_id#13349]

Arguments: [party_id#13348, transaction_id#13349], [StructField(party_id,IntegerType,true), StructField(transaction_id,StringType,true)], {NotNull(party_id)}, {NotNull(transaction_id)}, {NotNull(party_id)}, {NotNull(transaction_id)},

PushedDownOperators(None,None,None,None,List(),List()), JDBCRDD[1643] at Spark Connect - session_id: "1b4f6863-c045-4bc4-8d01-46ee376b2f58"

user_context {

user_id: "6106180720153940"

user_name: "anton@forecasa...., JDBCRelation((SELECT distinct party_id, transaction_id FROM public.transaction_party_name) SPARK_GEN_SUBQ_4328) [numPartitions=1], Statistics(sizeInBytes=8.0 EiB, ColumnStat: N/A)

External engine query: SELECT "party_id","transaction_id" FROM (SELECT distinct party_id, transaction_id FROM public.transaction_party_name) SPARK_GEN_SUBQ_4328 WHERE ("party_id" IS NOT NULL) AND ("transaction_id" IS NOT NULL)

```

(591) PhotonRowToColumnar
Input [2]: [party_id#13348, transaction_id#13349]

(592) PhotonShuffleExchangeSink
Input [2]: [party_id#13348, transaction_id#13349]
Arguments: hashpartitioning(party_id#13348, 200)

(593) PhotonShuffleMapStage
Input [2]: [party_id#13348, transaction_id#13349]
Arguments: ENSURE_REQUIREMENTS, [id=#155472]

(594) ShuffleQueryStage
Output [2]: [party_id#13348, transaction_id#13349]
Arguments: 63, Statistics(sizeInBytes=8.0 EiB, ColumnStat: N/A)

(595) ShuffledHashJoin
Left keys [1]: [party_id#13339]
Right keys [1]: [party_id#13348]
Join type: Inner
Join condition: None

(596) Project
Output [6]: [party_id#13339, party_name#13338, company_id#13340, deleted_at#13341, updated_at#13342, transaction_id#13349]
Input [7]: [party_name#13338, party_id#13339, company_id#13340, deleted_at#13341, updated_at#13342, party_id#13348, transaction_id#13349]

(597) HashAggregate
Input [6]: [party_id#13339, party_name#13338, company_id#13340, deleted_at#13341, updated_at#13342, transaction_id#13349]
Keys [6]: [party_name#13338, party_id#13339, company_id#13340, deleted_at#13341, transaction_id#13349, updated_at#13342]
Functions: []
Aggregate Attributes: []
Results [6]: [party_name#13338, party_id#13339, company_id#13340, deleted_at#13341, transaction_id#13349, updated_at#13342]

(598) Exchange
Input [6]: [party_name#13338, party_id#13339, company_id#13340, deleted_at#13341, transaction_id#13349, updated_at#13342]
Arguments: hashpartitioning(transaction_id#13349, 200), ENSURE_REQUIREMENTS, [plan_id=155478]

(599) Scan JDBCRelation((
SELECT
  "County" as county,
  "Transaction_Type" as transaction_type,
  "FC_Transaction_Date" as fc_transaction_date,
  "FC_Recorded_Date" as fc_recorded_date,
  "FC_Cross_Party" as fc_cross_party,
  fcdateupdated,
  fctransactionid,
  "PDF_ID" as pdf_id
FROM public.transaction) SPARK_GEN_SUBQ_4336) [numPartitions=1] [codegen id : 65]
Output [7]: [county#13352, transaction_type#13353, fc_transaction_date#13354, fc_recorded_date#13355, fcdateupdated#13357,
fctransactionid#13358, pdf_id#13359]
Arguments: [county#13352, transaction_type#13353, fc_transaction_date#13354, fc_recorded_date#13355, fcdateupdated#13357,
fctransactionid#13358, pdf_id#13359], [StructField(county,StringType,true), StructField(transaction_type,StringType,true),
StructField(fc_transaction_date,StringType,true), StructField(fc_recorded_date,StringType,true),
StructField(fcdateupdated,TimestampType,true), StructField(fctransactionid,StringType,true), StructField(pdf_id,StringType,true)],
{EqualTo(transaction_type,MORTGAGE), IsNotNull(fctransactionid), IsNotNull(transaction_type)}, {EqualTo(transaction_type,MORTGAGE),
IsNotNull(fctransactionid), IsNotNull(transaction_type)}, PushedDownOperators(None,None,None,None,List(),List()), JDBCRDD[1644] at Spark
Connect - session_id: "1b4f6863-c045-4bc4-8d01-46ee376b2f58"
user_context {
  user_id: "6106180720153940"
  user_name: "anton@forecasa...., JDBCRelation((
SELECT
  "County" as county,
  "Transaction_Type" as transaction_type,
  "FC_Transaction_Date" as fc_transaction_date,
  "FC_Recorded_Date" as fc_recorded_date,
  "FC_Cross_Party" as fc_cross_party,
  fcdateupdated,
  fctransactionid,
  "PDF_ID" as pdf_id
FROM public.transaction) SPARK_GEN_SUBQ_4336) [numPartitions=1], Statistics(sizeInBytes=8.0 EiB, ColumnStat: N/A)
External engine query: SELECT
"county","transaction_type","fc_transaction_date","fc_recorded_date","fcdateupdated","fctransactionid","pdf_id" FROM (
SELECT
  "County" as county,
  "Transaction_Type" as transaction_type,
  "FC_Transaction_Date" as fc_transaction_date,
  "FC_Recorded_Date" as fc_recorded_date,
  "FC_Cross_Party" as fc_cross_party,
  fcdateupdated,
  fctransactionid,
  "PDF_ID" as pdf_id
FROM public.transaction) SPARK_GEN_SUBQ_4336 WHERE ("transaction_type" IS NOT NULL) AND ("fctransactionid" IS NOT NULL) AND
("transaction_type" = 'MORTGAGE')

```


(600) PhotonRowToColumnar
Input [7]: [county#13352, transaction_type#13353, fc_transaction_date#13354, fc_recorded_date#13355, fcdateupdated#13357, fctransactionid#13358, pdf_id#13359]

(601) PhotonShuffleExchangeSink
Input [7]: [county#13352, transaction_type#13353, fc_transaction_date#13354, fc_recorded_date#13355, fcdateupdated#13357, fctransactionid#13358, pdf_id#13359]
Arguments: hashpartitioning(fctransactionid#13358, 200)

(602) PhotonShuffleMapStage
Input [7]: [county#13352, transaction_type#13353, fc_transaction_date#13354, fc_recorded_date#13355, fcdateupdated#13357, fctransactionid#13358, pdf_id#13359]
Arguments: ENSURE_REQUIREMENTS, [id=#155486]

(603) ShuffleQueryStage
Output [7]: [county#13352, transaction_type#13353, fc_transaction_date#13354, fc_recorded_date#13355, fcdateupdated#13357, fctransactionid#13358, pdf_id#13359]
Arguments: 64, Statistics(sizeInBytes=8.0 EiB, ColumnStat: N/A)

(604) ShuffledHashJoin
Left keys [1]: [transaction_id#13349]
Right keys [1]: [fctransactionid#13358]
Join type: Inner
Join condition: None

(605) Project
Output [11]: [party_name#13338, party_id#13339, company_id#13340, deleted_at#13341, county#13352, transaction_type#13353, fc_transaction_date#13354, fc_recorded_date#13355, greatest(fcdateupdated#13357, updated_at#13342) AS fcdateupdated#13398, fctransactionid#13358, pdf_id#13359]
Input [13]: [party_name#13338, party_id#13339, company_id#13340, deleted_at#13341, transaction_id#13349, updated_at#13342, county#13352, transaction_type#13353, fc_transaction_date#13354, fc_recorded_date#13355, fcdateupdated#13357, fctransactionid#13358, pdf_id#13359]

(606) HashAggregate
Input [11]: [party_name#13338, party_id#13339, company_id#13340, deleted_at#13341, county#13352, transaction_type#13353, fc_transaction_date#13354, fc_recorded_date#13355, fcdateupdated#13398, fctransactionid#13358, pdf_id#13359]
Keys [11]: [party_name#13338, party_id#13339, company_id#13340, deleted_at#13341, county#13352, transaction_type#13353, fc_transaction_date#13354, fc_recorded_date#13355, fcdateupdated#13398, fctransactionid#13358, pdf_id#13359]
Functions: []
Aggregate Attributes: []
Results [11]: [party_name#13338, party_id#13339, company_id#13340, deleted_at#13341, county#13352, transaction_type#13353, fc_transaction_date#13354, fc_recorded_date#13355, fcdateupdated#13398, fctransactionid#13358, pdf_id#13359]

(607) Exchange
Input [11]: [party_name#13338, party_id#13339, company_id#13340, deleted_at#13341, county#13352, transaction_type#13353, fc_transaction_date#13354, fc_recorded_date#13355, fcdateupdated#13398, fctransactionid#13358, pdf_id#13359]
Arguments: hashpartitioning(party_id#13339, 200), ENSURE_REQUIREMENTS, [plan_id=155492]

(608) Scan JDBCRelation((SELECT distinct party_id, transaction_id FROM public.transaction_party_name) SPARK_GEN_SUBQ_4344)
[numPartitions=1] [codegen id : 66]
Output [2]: [party_id#13368, transaction_id#13369]
Arguments: [party_id#13368, transaction_id#13369], [StructField(party_id,IntegerType,true), StructField(transaction_id,StringType,true)], {NotNull(party_id), NotNull(transaction_id)}, {NotNull(party_id), NotNull(transaction_id)}, PushedDownOperators(None,None,None,None,List(),List()), JDBCRDD[1645] at Spark Connect - session_id: "1b4f6863-c045-4bc4-8d01-46ee376b2f58"
user_context {
 user_id: "6106180720153940"
 user_name: "anton@forecasa...., JDBCRelation((SELECT distinct party_id, transaction_id FROM public.transaction_party_name) SPARK_GEN_SUBQ_4344 [numPartitions=1], Statistics(sizeInBytes=8.0 EiB, ColumnStat: N/A)
External engine query: SELECT "party_id","transaction_id" FROM (SELECT distinct party_id, transaction_id FROM public.transaction_party_name) SPARK_GEN_SUBQ_4344 WHERE ("party_id" IS NOT NULL) AND ("transaction_id" IS NOT NULL)

(609) PhotonRowToColumnar
Input [2]: [party_id#13368, transaction_id#13369]

(610) PhotonShuffleExchangeSink
Input [2]: [party_id#13368, transaction_id#13369]
Arguments: hashpartitioning(transaction_id#13369, 200)

(611) PhotonShuffleMapStage
Input [2]: [party_id#13368, transaction_id#13369]
Arguments: ENSURE_REQUIREMENTS, [id=#155500]

(612) ShuffleQueryStage
Output [2]: [party_id#13368, transaction_id#13369]
Arguments: 65, Statistics(sizeInBytes=8.0 EiB, ColumnStat: N/A)

(613) Scan JDBCRelation((SELECT fc_transaction_id FROM publish.transactions WHERE fc_updated_at > '2000-04-16 12:00:00') SPARK_GEN_SUBQ_4352) [numPartitions=1] [codegen id : 67]
Output [1]: [fc_transaction_id#13372]
Arguments: [fc_transaction_id#13372], [StructField(fc_transaction_id,StringType,true)], {NotNull(fc_transaction_id)}, {NotNull(fc_transaction_id)}, PushedDownOperators(None,None,None,None,List(),List()), JDBCRDD[1646] at Spark Connect - session_id: "1b4f6863-c045-4bc4-8d01-46ee376b2f58"

```

user_context {
  user_id: "6106180720153940"
  user_name: "anton@forecasa...., JDBCRelation((SELECT fc_transaction_id FROM publish.transactions WHERE fc_updated_at > '2000-04-16
12:00:00') SPARK_GEN_SUBQ_4352) [numPartitions=1], Statistics(sizeInBytes=8.0 EiB, ColumnStat: N/A)
External engine query: SELECT "fc_transaction_id" FROM (SELECT fc_transaction_id FROM publish.transactions WHERE fc_updated_at > '2000-04-
16 12:00:00') SPARK_GEN_SUBQ_4352 WHERE ("fc_transaction_id" IS NOT NULL)

(614) PhotonRowToColumnar
Input [1]: [fc_transaction_id#13372]

(615) PhotonShuffleExchangeSink
Input [1]: [fc_transaction_id#13372]
Arguments: hashpartitioning(fc_transaction_id#13372, 200)

(616) PhotonShuffleMapStage
Input [1]: [fc_transaction_id#13372]
Arguments: ENSURE_REQUIREMENTS, [id=#155510]

(617) ShuffleQueryStage
Output [1]: [fc_transaction_id#13372]
Arguments: 66, Statistics(sizeInBytes=8.0 EiB, ColumnStat: N/A)

(618) ShuffledHashJoin
Left keys [1]: [transaction_id#13369]
Right keys [1]: [fc_transaction_id#13372]
Join type: LeftSemi
Join condition: None

(619) Project
Output [1]: [party_id#13368]
Input [2]: [party_id#13368, transaction_id#13369]

(620) HashAggregate
Input [1]: [party_id#13368]
Keys [1]: [party_id#13368]
Functions: []
Aggregate Attributes: []
Results [1]: [party_id#13368]

(621) Exchange
Input [1]: [party_id#13368]
Arguments: hashpartitioning(party_id#13368, 200), ENSURE_REQUIREMENTS, [plan_id=155516]

(622) HashAggregate
Input [1]: [party_id#13368]
Keys [1]: [party_id#13368]
Functions: []
Aggregate Attributes: []
Results [1]: [party_id#13368]

(623) Scan JDBCRelation((SELECT distinct party_id, transaction_id FROM public.transaction_party_cross_party) SPARK_GEN_SUBQ_4360)
[numPartitions=1] [codegen id : 68]
Output [2]: [party_id#13374, transaction_id#13375]
Arguments: [party_id#13374, transaction_id#13375], [StructField(party_id,IntegerType,true), StructField(transaction_id,StringType,true)],
{NotNull(party_id), IsNotNull(transaction_id)}, {NotNull(party_id), IsNotNull(transaction_id)},
PushedDownOperators(None,None,None,List(),List()), JDBCRDD[1647] at Spark Connect - session_id: "1b4f6863-c045-4bc4-8d01-
46ee376b2f58"
user_context {
  user_id: "6106180720153940"
  user_name: "anton@forecasa...., JDBCRelation((SELECT distinct party_id, transaction_id FROM public.transaction_party_cross_party)
SPARK_GEN_SUBQ_4360) [numPartitions=1], Statistics(sizeInBytes=8.0 EiB, ColumnStat: N/A)
External engine query: SELECT "party_id","transaction_id" FROM (SELECT distinct party_id, transaction_id FROM
public.transaction_party_cross_party) SPARK_GEN_SUBQ_4360 WHERE ("party_id" IS NOT NULL) AND ("transaction_id" IS NOT NULL)

(624) PhotonRowToColumnar
Input [2]: [party_id#13374, transaction_id#13375]

(625) PhotonShuffleExchangeSink
Input [2]: [party_id#13374, transaction_id#13375]
Arguments: hashpartitioning(transaction_id#13375, 200)

(626) PhotonShuffleMapStage
Input [2]: [party_id#13374, transaction_id#13375]
Arguments: ENSURE_REQUIREMENTS, [id=#155525]

(627) ShuffleQueryStage
Output [2]: [party_id#13374, transaction_id#13375]
Arguments: 67, Statistics(sizeInBytes=8.0 EiB, ColumnStat: N/A)

(628) Scan JDBCRelation((SELECT fc_transaction_id FROM publish.transactions WHERE fc_updated_at > '2000-04-16 12:00:00')
SPARK_GEN_SUBQ_4368) [numPartitions=1] [codegen id : 69]
Output [1]: [fc_transaction_id#13378]
Arguments: [fc_transaction_id#13378], [StructField(fc_transaction_id,StringType,true)], {NotNull(fc_transaction_id)},

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```
{IsNull(fc_transaction_id)}, PushedDownOperators(None,None,None,None,List(),List()), JDBCRDD[1648] at Spark Connect - session_id:
"1b4f6863-c045-4bc4-8d01-46ee376b2f58"
user_context {
  user_id: "6106180720153940"
  user_name: "anton@forecasa..., JDBCRelation((SELECT fc_transaction_id FROM publish.transactions WHERE fc_updated_at > '2000-04-16
12:00:00') SPARK_GEN_SUBQ_4368) [numPartitions=1], Statistics(sizeInBytes=8.0 EiB, ColumnStat: N/A)
External engine query: SELECT "fc_transaction_id" FROM (SELECT fc_transaction_id FROM publish.transactions WHERE fc_updated_at > '2000-04-
16 12:00:00') SPARK_GEN_SUBQ_4368 WHERE ("fc_transaction_id" IS NOT NULL)

(629) PhotonRowToColumnar
Input [1]: [fc_transaction_id#13378]

(630) PhotonShuffleExchangeSink
Input [1]: [fc_transaction_id#13378]
Arguments: hashpartitioning(fc_transaction_id#13378, 200)

(631) PhotonShuffleMapStage
Input [1]: [fc_transaction_id#13378]
Arguments: ENSURE_REQUIREMENTS, [id=#155535]

(632) ShuffleQueryStage
Output [1]: [fc_transaction_id#13378]
Arguments: 68, Statistics(sizeInBytes=8.0 EiB, ColumnStat: N/A)

(633) ShuffledHashJoin
Left keys [1]: [transaction_id#13375]
Right keys [1]: [fc_transaction_id#13378]
Join type: LeftSemi
Join condition: None

(634) Project
Output [1]: [party_id#13374]
Input [2]: [party_id#13374, transaction_id#13375]

(635) HashAggregate
Input [1]: [party_id#13374]
Keys [1]: [party_id#13374]
Functions: []
Aggregate Attributes: []
Results [1]: [party_id#13374]

(636) Exchange
Input [1]: [party_id#13374]
Arguments: hashpartitioning(party_id#13374, 200), ENSURE_REQUIREMENTS, [plan_id=155541]

(637) HashAggregate
Input [1]: [party_id#13374]
Keys [1]: [party_id#13374]
Functions: []
Aggregate Attributes: []
Results [1]: [party_id#13374]

(638) Union

(639) HashAggregate
Input [1]: [party_id#13368]
Keys [1]: [party_id#13368]
Functions: []
Aggregate Attributes: []
Results [1]: [party_id#13368]

(640) Exchange
Input [1]: [party_id#13368]
Arguments: hashpartitioning(party_id#13368, 200), ENSURE_REQUIREMENTS, [plan_id=155545]

(641) ShuffledHashJoin
Left keys [1]: [party_id#13339]
Right keys [1]: [party_id#13368]
Join type: LeftSemi
Join condition: None

(642) HashAggregate
Input [11]: [party_name#13338, party_id#13339, company_id#13340, deleted_at#13341, county#13352, transaction_type#13353,
fc_transaction_date#13354, fc_recorded_date#13355, fcdateupdated#13398, fctransactionid#13358, pdf_id#13359]
Keys [11]: [party_name#13338, party_id#13339, company_id#13340, deleted_at#13341, county#13352, transaction_type#13353,
fc_transaction_date#13354, fc_recorded_date#13355, fcdateupdated#13398, fctransactionid#13358, pdf_id#13359]
Functions: []
Aggregate Attributes: []
Results [11]: [party_name#13338, party_id#13339, company_id#13340, deleted_at#13341, county#13352, transaction_type#13353,
fc_transaction_date#13354, fc_recorded_date#13355, fcdateupdated#13398, fctransactionid#13358, pdf_id#13359]

(643) Exchange
Input [11]: [party_name#13338, party_id#13339, company_id#13340, deleted_at#13341, county#13352, transaction_type#13353,
```

fc_transaction_date#13354, fc_recorded_date#13355, fcdateupdated#13398, fctransactionid#13358, pdf_id#13359]
Arguments: hashpartitioning(pdf_id#13359, 200), ENSURE_REQUIREMENTS, [plan_id=155548]

(644) Scan JDBCRelation((SELECT pdf_id FROM public.pdf_record) SPARK_GEN_SUBQ_4376) [numPartitions=1] [codegen id : 70]

Output [1]: [pdf_id#13380]

Arguments: [pdf_id#13380], [StructField(pdf_id,StringType,true)], {IsNotNull(pdf_id)}, {IsNotNull(pdf_id)},
PushedDownOperators(None,None,None,None,List(),List()), JDBCRDD[1649] at Spark Connect - session_id: "1b4f6863-c045-4bc4-8d01-46ee376b2f58"

user_context {

user_id: "6106180720153940"

user_name: "anton@forecasa...", JDBCRelation((SELECT pdf_id FROM public.pdf_record) SPARK_GEN_SUBQ_4376) [numPartitions=1],

Statistics(sizeInBytes=8.0 EiB, ColumnStat: N/A)

External engine query: SELECT "pdf_id" FROM (SELECT pdf_id FROM public.pdf_record) SPARK_GEN_SUBQ_4376 WHERE ("pdf_id" IS NOT NULL)

(645) PhotonRowToColumnar

Input [1]: [pdf_id#13380]

(646) PhotonShuffleExchangeSink

Input [1]: [pdf_id#13380]

Arguments: hashpartitioning(pdf_id#13380, 200)

(647) PhotonShuffleMapStage

Input [1]: [pdf_id#13380]

Arguments: ENSURE_REQUIREMENTS, [id=#155556]

(648) ShuffleQueryStage

Output [1]: [pdf_id#13380]

Arguments: 69, Statistics(sizeInBytes=8.0 EiB, ColumnStat: N/A)

(649) ShuffledHashJoin

Left keys [1]: [pdf_id#13359]

Right keys [1]: [pdf_id#13380]

Join type: LeftOuter

Join condition: None

(650) Project

Output [11]: [party_name#13338, party_id#13339, company_id#13340, deleted_at#13341, county#13352, transaction_type#13353,
fc_transaction_date#13354, fc_recorded_date#13355, fcdateupdated#13398, fctransactionid#13358, ((isnotnull(pdf_id#13380) AND
(transaction_type#13353 = MORTGAGE)) <=> true) AS has_pdf#13430]

Input [12]: [party_name#13338, party_id#13339, company_id#13340, deleted_at#13341, county#13352, transaction_type#13353,
fc_transaction_date#13354, fc_recorded_date#13355, fcdateupdated#13398, fctransactionid#13358, pdf_id#13359, pdf_id#13380]

(651) HashAggregate

Input [11]: [party_name#13338, party_id#13339, company_id#13340, deleted_at#13341, county#13352, transaction_type#13353,
fc_transaction_date#13354, fc_recorded_date#13355, fcdateupdated#13398, fctransactionid#13358, has_pdf#13430]

Keys [11]: [party_name#13338, party_id#13339, company_id#13340, deleted_at#13341, county#13352, transaction_type#13353,
fc_transaction_date#13354, fc_recorded_date#13355, fcdateupdated#13398, fctransactionid#13358, has_pdf#13430]

Functions: []

Aggregate Attributes: []

Results [11]: [party_name#13338, party_id#13339, company_id#13340, deleted_at#13341, county#13352, transaction_type#13353,
fc_transaction_date#13354, fc_recorded_date#13355, fcdateupdated#13398, fctransactionid#13358, has_pdf#13430]

(652) Exchange

Input [11]: [party_name#13338, party_id#13339, company_id#13340, deleted_at#13341, county#13352, transaction_type#13353,
fc_transaction_date#13354, fc_recorded_date#13355, fcdateupdated#13398, fctransactionid#13358, has_pdf#13430]

Arguments: hashpartitioning(party_name#13338, party_id#13339, company_id#13340, deleted_at#13341, county#13352, transaction_type#13353,
fc_transaction_date#13354, fc_recorded_date#13355, fcdateupdated#13398, fctransactionid#13358, has_pdf#13430, 200), ENSURE_REQUIREMENTS,
[plan_id=155562]

(653) HashAggregate

Input [11]: [party_name#13338, party_id#13339, company_id#13340, deleted_at#13341, county#13352, transaction_type#13353,
fc_transaction_date#13354, fc_recorded_date#13355, fcdateupdated#13398, fctransactionid#13358, has_pdf#13430]

Keys [11]: [party_name#13338, party_id#13339, company_id#13340, deleted_at#13341, county#13352, transaction_type#13353,
fc_transaction_date#13354, fc_recorded_date#13355, fcdateupdated#13398, fctransactionid#13358, has_pdf#13430]

Functions: []

Aggregate Attributes: []

Results [11]: [party_name#13338, party_id#13339, company_id#13340, deleted_at#13341, county#13352, transaction_type#13353,
fc_transaction_date#13354, fc_recorded_date#13355, fcdateupdated#13398, fctransactionid#13358, has_pdf#13430]

(654) Scan JDBCRelation((SELECT party_name, party_id, company_id, deleted_at, updated_at FROM public.party) SPARK_GEN_SUBQ_4384)

[numPartitions=1] [codegen id : 71]

Output [5]: [party_name#13447, party_id#13448, company_id#13449, deleted_at#13450, updated_at#13451]

Arguments: [party_name#13447, party_id#13448, company_id#13449, deleted_at#13450, updated_at#13451],

[StructField(party_name,StringType,true), StructField(party_id,IntegerType,true), StructField(company_id,IntegerType,true),

StructField(deleted_at,TimestampType,true), StructField(updated_at,TimestampType,true)], {IsNotNull(party_id)}, {IsNotNull(party_id)},

PushedDownOperators(None,None,None,None,List(),List()), JDBCRDD[1650] at Spark Connect - session_id: "1b4f6863-c045-4bc4-8d01-46ee376b2f58"

user_context {

user_id: "6106180720153940"

user_name: "anton@forecasa...", JDBCRelation((SELECT party_name, party_id, company_id, deleted_at, updated_at FROM public.party)
SPARK_GEN_SUBQ_4384) [numPartitions=1], Statistics(sizeInBytes=8.0 EiB, ColumnStat: N/A)

External engine query: SELECT "party_name","party_id","company_id","deleted_at","updated_at" FROM (SELECT party_name, party_id,
company_id, deleted_at, updated_at FROM public.party) SPARK_GEN_SUBQ_4384 WHERE ("party_id" IS NOT NULL)

```

(655) PhotonRowToColumnar
Input [5]: [party_name#13447, party_id#13448, company_id#13449, deleted_at#13450, updated_at#13451]

(656) PhotonShuffleExchangeSink
Input [5]: [party_name#13447, party_id#13448, company_id#13449, deleted_at#13450, updated_at#13451]
Arguments: hashpartitioning(party_id#13448, 200)

(657) PhotonShuffleMapStage
Input [5]: [party_name#13447, party_id#13448, company_id#13449, deleted_at#13450, updated_at#13451]
Arguments: ENSURE_REQUIREMENTS, [id=#155571]

(658) ShuffleQueryStage
Output [5]: [party_name#13447, party_id#13448, company_id#13449, deleted_at#13450, updated_at#13451]
Arguments: 70, Statistics(sizeInBytes=8.0 EiB, ColumnStat: N/A)

(659) Scan JDBCRelation((SELECT distinct party_id, transaction_id FROM public.transaction_party_cross_party) SPARK_GEN_SUBQ_4392)
[numPartitions=1] [codegen id : 72]
Output [2]: [party_id#13457, transaction_id#13458]
Arguments: [party_id#13457, transaction_id#13458], [StructField(party_id,IntegerType,true), StructField(transaction_id,StringType,true)],
{NotNull(party_id), NotNull(transaction_id)}, {NotNull(party_id), NotNull(transaction_id)},
PushedDownOperators(None,None,None,None,List(),List()), JDBCRDD[1651] at Spark Connect - session_id: "1b4f6863-c045-4bc4-8d01-
46ee376b2f58"
user_context {
  user_id: "6106180720153940"
  user_name: "anton@forecasa...., JDBCRelation((SELECT distinct party_id, transaction_id FROM public.transaction_party_cross_party)
SPARK_GEN_SUBQ_4392) [numPartitions=1], Statistics(sizeInBytes=8.0 EiB, ColumnStat: N/A)
External engine query: SELECT "party_id","transaction_id" FROM (SELECT distinct party_id, transaction_id FROM
public.transaction_party_cross_party) SPARK_GEN_SUBQ_4392 WHERE ("party_id" IS NOT NULL) AND ("transaction_id" IS NOT NULL)

(660) PhotonRowToColumnar
Input [2]: [party_id#13457, transaction_id#13458]

(661) PhotonShuffleExchangeSink
Input [2]: [party_id#13457, transaction_id#13458]
Arguments: hashpartitioning(party_id#13457, 200)

(662) PhotonShuffleMapStage
Input [2]: [party_id#13457, transaction_id#13458]
Arguments: ENSURE_REQUIREMENTS, [id=#155581]

(663) ShuffleQueryStage
Output [2]: [party_id#13457, transaction_id#13458]
Arguments: 71, Statistics(sizeInBytes=8.0 EiB, ColumnStat: N/A)

(664) ShuffledHashJoin
Left keys [1]: [party_id#13448]
Right keys [1]: [party_id#13457]
Join type: Inner
Join condition: None

(665) Project
Output [6]: [party_id#13448, party_name#13447, company_id#13449, deleted_at#13450, updated_at#13451, transaction_id#13458]
Input [7]: [party_name#13447, party_id#13448, company_id#13449, deleted_at#13450, updated_at#13451, party_id#13457, transaction_id#13458]

(666) HashAggregate
Input [6]: [party_id#13448, party_name#13447, company_id#13449, deleted_at#13450, updated_at#13451, transaction_id#13458]
Keys [6]: [party_name#13447, party_id#13448, company_id#13449, deleted_at#13450, transaction_id#13458, updated_at#13451]
Functions: []
Aggregate Attributes: []
Results [6]: [party_name#13447, party_id#13448, company_id#13449, deleted_at#13450, transaction_id#13458, updated_at#13451]

(667) Exchange
Input [6]: [party_name#13447, party_id#13448, company_id#13449, deleted_at#13450, transaction_id#13458, updated_at#13451]
Arguments: hashpartitioning(transaction_id#13458, 200), ENSURE_REQUIREMENTS, [plan_id=155587]

(668) Scan JDBCRelation((
SELECT
  "County" as county,
  "Transaction_Type" as transaction_type,
  "FC_Transaction_Date" as fc_transaction_date,
  "FC_Recorded_Date" as fc_recorded_date,
  "FC_Cross_Party" as fc_cross_party,
  fcdateupdated,
  fctransactionid,
  "PDF_ID" as pdf_id
FROM public.transaction) SPARK_GEN_SUBQ_4400) [numPartitions=1] [codegen id : 73]
Output [7]: [county#13461, transaction_type#13462, fc_transaction_date#13463, fc_recorded_date#13464, fcdateupdated#13466,
fctransactionid#13467, pdf_id#13468]
Arguments: [county#13461, transaction_type#13462, fc_transaction_date#13463, fc_recorded_date#13464, fcdateupdated#13466,
fctransactionid#13467, pdf_id#13468], [StructField(county,StringType,true), StructField(transaction_type,StringType,true),
StructField(fc_transaction_date,StringType,true), StructField(fc_recorded_date,StringType,true),
StructField(fcdateupdated,TimestampType,true), StructField(fctransactionid,StringType,true), StructField(pdf_id,StringType,true)],

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```
{EqualTo(transaction_type,MORTGAGE), IsNotNull(fctransactionid), IsNotNull(transaction_type)}, {EqualTo(transaction_type,MORTGAGE),
IsNotNull(fctransactionid), IsNotNull(transaction_type)}, PushedDownOperators(None,None,None,None,List(),List()), JDBCRDD[1652] at Spark
Connect - session_id: "1b4f6863-c045-4bc4-8d01-46ee376b2f58"
user_context {
  user_id: "6106180720153940"
  user_name: "anton@forecasa...., JDBCRelation((
SELECT
  "County" as county,
  "Transaction_Type" as transaction_type,
  "FC_Transaction_Date" as fc_transaction_date,
  "FC_Recorded_Date" as fc_recorded_date,
  "FC_Cross_Party" as fc_cross_party,
  fcdateupdated,
  fctransactionid,
  "PDF_ID" as pdf_id
FROM public.transaction) SPARK_GEN_SUBQ_4400 [numPartitions=1], Statistics(sizeInBytes=8.0 EiB, ColumnStat: N/A)
External engine query: SELECT
"county","transaction_type","fc_transaction_date","fc_recorded_date","fcdateupdated","fctransactionid","pdf_id" FROM (
SELECT
  "County" as county,
  "Transaction_Type" as transaction_type,
  "FC_Transaction_Date" as fc_transaction_date,
  "FC_Recorded_Date" as fc_recorded_date,
  "FC_Cross_Party" as fc_cross_party,
  fcdateupdated,
  fctransactionid,
  "PDF_ID" as pdf_id
FROM public.transaction) SPARK_GEN_SUBQ_4400 WHERE ("transaction_type" IS NOT NULL) AND ("fctransactionid" IS NOT NULL) AND
("transaction_type" = 'MORTGAGE')
```

(669) PhotonRowToColumnar
Input [7]: [county#13461, transaction_type#13462, fc_transaction_date#13463, fc_recorded_date#13464, fcdateupdated#13466, fctransactionid#13467, pdf_id#13468]

(670) PhotonShuffleExchangeSink
Input [7]: [county#13461, transaction_type#13462, fc_transaction_date#13463, fc_recorded_date#13464, fcdateupdated#13466, fctransactionid#13467, pdf_id#13468]
Arguments: hashpartitioning(fctransactionid#13467, 200)

(671) PhotonShuffleMapStage
Input [7]: [county#13461, transaction_type#13462, fc_transaction_date#13463, fc_recorded_date#13464, fcdateupdated#13466, fctransactionid#13467, pdf_id#13468]
Arguments: ENSURE_REQUIREMENTS, [id=#155595]

(672) ShuffleQueryStage
Output [7]: [county#13461, transaction_type#13462, fc_transaction_date#13463, fc_recorded_date#13464, fcdateupdated#13466, fctransactionid#13467, pdf_id#13468]
Arguments: 72, Statistics(sizeInBytes=8.0 EiB, ColumnStat: N/A)

(673) ShuffledHashJoin
Left keys [1]: [transaction_id#13458]
Right keys [1]: [fctransactionid#13467]
Join type: Inner
Join condition: None

(674) Project
Output [11]: [party_name#13447, party_id#13448, company_id#13449, deleted_at#13450, county#13461, transaction_type#13462, fc_transaction_date#13463, fc_recorded_date#13464, greatest(fcdateupdated#13466, updated_at#13451) AS fcdateupdated#13508, fctransactionid#13467, pdf_id#13468]
Input [13]: [party_name#13447, party_id#13448, company_id#13449, deleted_at#13450, transaction_id#13458, updated_at#13451, county#13461, transaction_type#13462, fc_transaction_date#13463, fc_recorded_date#13464, fcdateupdated#13466, fctransactionid#13467, pdf_id#13468]

(675) HashAggregate
Input [11]: [party_name#13447, party_id#13448, company_id#13449, deleted_at#13450, county#13461, transaction_type#13462, fc_transaction_date#13463, fc_recorded_date#13464, fcdateupdated#13508, fctransactionid#13467, pdf_id#13468]
Keys [11]: [party_name#13447, party_id#13448, company_id#13449, deleted_at#13450, county#13461, transaction_type#13462, fc_transaction_date#13463, fc_recorded_date#13464, fcdateupdated#13508, fctransactionid#13467, pdf_id#13468]
Functions: []
Aggregate Attributes: []
Results [11]: [party_name#13447, party_id#13448, company_id#13449, deleted_at#13450, county#13461, transaction_type#13462, fc_transaction_date#13463, fc_recorded_date#13464, fcdateupdated#13508, fctransactionid#13467, pdf_id#13468]

(676) Exchange
Input [11]: [party_name#13447, party_id#13448, company_id#13449, deleted_at#13450, county#13461, transaction_type#13462, fc_transaction_date#13463, fc_recorded_date#13464, fcdateupdated#13508, fctransactionid#13467, pdf_id#13468]
Arguments: hashpartitioning(party_id#13448, 200), ENSURE_REQUIREMENTS, [plan_id=155601]

(677) Scan JDBCRelation((SELECT distinct party_id, transaction_id FROM public.transaction_party_name) SPARK_GEN_SUBQ_4408)
[numPartitions=1] [codegen id : 74]
Output [2]: [party_id#13477, transaction_id#13478]
Arguments: [party_id#13477, transaction_id#13478], [StructField(party_id,IntegerType,true), StructField(transaction_id,StringType,true)], {IsNotNull(party_id), IsNotNull(transaction_id)}, {IsNotNull(party_id), IsNotNull(transaction_id)}, PushedDownOperators(None,None,None,None,List(),List()), JDBCRDD[1653] at Spark Connect - session_id: "1b4f6863-c045-4bc4-8d01-

```
46ee376b2f58"
user_context {
  user_id: "6106180720153940"
  user_name: "anton@forecasa...., JDBCRelation((SELECT distinct party_id, transaction_id FROM public.transaction_party_name)
SPARK_GEN_SUBQ_4408) [numPartitions=1], Statistics(sizeInBytes=8.0 EiB, ColumnStat: N/A)
External engine query: SELECT "party_id","transaction_id" FROM (SELECT distinct party_id, transaction_id FROM
public.transaction_party_name) SPARK_GEN_SUBQ_4408 WHERE ("party_id" IS NOT NULL) AND ("transaction_id" IS NOT NULL)

(678) PhotonRowToColumnar
Input [2]: [party_id#13477, transaction_id#13478]

(679) PhotonShuffleExchangeSink
Input [2]: [party_id#13477, transaction_id#13478]
Arguments: hashpartitioning(transaction_id#13478, 200)

(680) PhotonShuffleMapStage
Input [2]: [party_id#13477, transaction_id#13478]
Arguments: ENSURE_REQUIREMENTS, [id=#155609]

(681) ShuffleQueryStage
Output [2]: [party_id#13477, transaction_id#13478]
Arguments: 73, Statistics(sizeInBytes=8.0 EiB, ColumnStat: N/A)

(682) Scan JDBCRelation((SELECT fc_transaction_id FROM publish.transactions WHERE fc_updated_at > '2000-04-16 12:00:00')
SPARK_GEN_SUBQ_4416) [numPartitions=1] [codegen id : 75]
Output [1]: [fc_transaction_id#13481]
Arguments: [fc_transaction_id#13481], [StructField(fc_transaction_id,StringType,true)], {IsNotNull(fc_transaction_id)},
{IsNotNull(fc_transaction_id)}, PushedDownOperators(None,None,None,None,List(),List()), JDBCRDD[1654] at Spark Connect - session_id:
"1b4f6863-c045-4bc4-8d01-46ee376b2f58"
user_context {
  user_id: "6106180720153940"
  user_name: "anton@forecasa...., JDBCRelation((SELECT fc_transaction_id FROM publish.transactions WHERE fc_updated_at > '2000-04-16
12:00:00') SPARK_GEN_SUBQ_4416) [numPartitions=1], Statistics(sizeInBytes=8.0 EiB, ColumnStat: N/A)
External engine query: SELECT "fc_transaction_id" FROM (SELECT fc_transaction_id FROM publish.transactions WHERE fc_updated_at > '2000-04-
16 12:00:00') SPARK_GEN_SUBQ_4416 WHERE ("fc_transaction_id" IS NOT NULL)

(683) PhotonRowToColumnar
Input [1]: [fc_transaction_id#13481]

(684) PhotonShuffleExchangeSink
Input [1]: [fc_transaction_id#13481]
Arguments: hashpartitioning(fc_transaction_id#13481, 200)

(685) PhotonShuffleMapStage
Input [1]: [fc_transaction_id#13481]
Arguments: ENSURE_REQUIREMENTS, [id=#155619]

(686) ShuffleQueryStage
Output [1]: [fc_transaction_id#13481]
Arguments: 74, Statistics(sizeInBytes=8.0 EiB, ColumnStat: N/A)

(687) ShuffledHashJoin
Left keys [1]: [transaction_id#13478]
Right keys [1]: [fc_transaction_id#13481]
Join type: LeftSemi
Join condition: None

(688) Project
Output [1]: [party_id#13477]
Input [2]: [party_id#13477, transaction_id#13478]

(689) HashAggregate
Input [1]: [party_id#13477]
Keys [1]: [party_id#13477]
Functions: []
Aggregate Attributes: []
Results [1]: [party_id#13477]

(690) Exchange
Input [1]: [party_id#13477]
Arguments: hashpartitioning(party_id#13477, 200), ENSURE_REQUIREMENTS, [plan_id=155625]

(691) HashAggregate
Input [1]: [party_id#13477]
Keys [1]: [party_id#13477]
Functions: []
Aggregate Attributes: []
Results [1]: [party_id#13477]

(692) Scan JDBCRelation((SELECT distinct party_id, transaction_id FROM public.transaction_party_cross_party) SPARK_GEN_SUBQ_4424)
[numPartitions=1] [codegen id : 76]
Output [2]: [party_id#13483, transaction_id#13484]
Arguments: [party_id#13483, transaction_id#13484], [StructField(party_id,IntegerType,true), StructField(transaction_id,StringType,true)],
```

```
{NotNull(part party_id), NotNull(transaction_id)}, {NotNull(part party_id), NotNull(transaction_id)},
PushedDownOperators(None, None, None, None, List(), List()), JDBCRDD[1655] at Spark Connect - session_id: "1b4f6863-c045-4bc4-8d01-46ee376b2f58"
user_context {
  user_id: "6106180720153940"
  user_name: "anton@forecasa...., JDBCRelation((SELECT distinct party_id, transaction_id FROM public.transaction_party_cross_party)
SPARK_GEN_SUBQ_4424) [numPartitions=1], Statistics(sizeInBytes=8.0 EiB, ColumnStat: N/A)
External engine query: SELECT "party_id", "transaction_id" FROM (SELECT distinct party_id, transaction_id FROM
public.transaction_party_cross_party) SPARK_GEN_SUBQ_4424 WHERE ("party_id" IS NOT NULL) AND ("transaction_id" IS NOT NULL)

(693) PhotonRowToColumnar
Input [2]: [party_id#13483, transaction_id#13484]

(694) PhotonShuffleExchangeSink
Input [2]: [party_id#13483, transaction_id#13484]
Arguments: hashpartitioning(transaction_id#13484, 200)

(695) PhotonShuffleMapStage
Input [2]: [party_id#13483, transaction_id#13484]
Arguments: ENSURE_REQUIREMENTS, [id=#155634]

(696) ShuffleQueryStage
Output [2]: [party_id#13483, transaction_id#13484]
Arguments: 75, Statistics(sizeInBytes=8.0 EiB, ColumnStat: N/A)

(697) Scan JDBCRelation((SELECT fc_transaction_id FROM publish.transactions WHERE fc_updated_at > '2000-04-16 12:00:00')
SPARK_GEN_SUBQ_4432) [numPartitions=1] [codegen id : 77]
Output [1]: [fc_transaction_id#13487]
Arguments: [fc_transaction_id#13487], [StructField(fc_transaction_id,StringType,true)], {NotNull(fc_transaction_id)},
{NotNull(fc_transaction_id)}, PushedDownOperators(None, None, None, None, List(), List()), JDBCRDD[1656] at Spark Connect - session_id:
"1b4f6863-c045-4bc4-8d01-46ee376b2f58"
user_context {
  user_id: "6106180720153940"
  user_name: "anton@forecasa...., JDBCRelation((SELECT fc_transaction_id FROM publish.transactions WHERE fc_updated_at > '2000-04-16
12:00:00') SPARK_GEN_SUBQ_4432) [numPartitions=1], Statistics(sizeInBytes=8.0 EiB, ColumnStat: N/A)
External engine query: SELECT "fc_transaction_id" FROM (SELECT fc_transaction_id FROM publish.transactions WHERE fc_updated_at > '2000-04-
16 12:00:00') SPARK_GEN_SUBQ_4432 WHERE ("fc_transaction_id" IS NOT NULL)

(698) PhotonRowToColumnar
Input [1]: [fc_transaction_id#13487]

(699) PhotonShuffleExchangeSink
Input [1]: [fc_transaction_id#13487]
Arguments: hashpartitioning(fc_transaction_id#13487, 200)

(700) PhotonShuffleMapStage
Input [1]: [fc_transaction_id#13487]
Arguments: ENSURE_REQUIREMENTS, [id=#155644]

(701) ShuffleQueryStage
Output [1]: [fc_transaction_id#13487]
Arguments: 76, Statistics(sizeInBytes=8.0 EiB, ColumnStat: N/A)

(702) ShuffledHashJoin
Left keys [1]: [transaction_id#13484]
Right keys [1]: [fc_transaction_id#13487]
Join type: LeftSemi
Join condition: None

(703) Project
Output [1]: [party_id#13483]
Input [2]: [party_id#13483, transaction_id#13484]

(704) HashAggregate
Input [1]: [party_id#13483]
Keys [1]: [party_id#13483]
Functions: []
Aggregate Attributes: []
Results [1]: [party_id#13483]

(705) Exchange
Input [1]: [party_id#13483]
Arguments: hashpartitioning(party_id#13483, 200), ENSURE_REQUIREMENTS, [plan_id=155650]

(706) HashAggregate
Input [1]: [party_id#13483]
Keys [1]: [party_id#13483]
Functions: []
Aggregate Attributes: []
Results [1]: [party_id#13483]

(707) Union
```

```
(708) HashAggregate
Input [1]: [party_id#13477]
Keys [1]: [party_id#13477]
Functions: []
Aggregate Attributes: []
Results [1]: [party_id#13477]

(709) Exchange
Input [1]: [party_id#13477]
Arguments: hashpartitioning(party_id#13477, 200), ENSURE_REQUIREMENTS, [plan_id=155654]

(710) ShuffledHashJoin
Left keys [1]: [party_id#13448]
Right keys [1]: [party_id#13477]
Join type: LeftSemi
Join condition: None

(711) HashAggregate
Input [11]: [party_name#13447, party_id#13448, company_id#13449, deleted_at#13450, county#13461, transaction_type#13462,
fc_transaction_date#13463, fc_recorded_date#13464, fcdateupdated#13508, fctransactionid#13467, pdf_id#13468]
Keys [11]: [party_name#13447, party_id#13448, company_id#13449, deleted_at#13450, county#13461, transaction_type#13462,
fc_transaction_date#13463, fc_recorded_date#13464, fcdateupdated#13508, fctransactionid#13467, pdf_id#13468]
Functions: []
Aggregate Attributes: []
Results [11]: [party_name#13447, party_id#13448, company_id#13449, deleted_at#13450, county#13461, transaction_type#13462,
fc_transaction_date#13463, fc_recorded_date#13464, fcdateupdated#13508, fctransactionid#13467, pdf_id#13468]

(712) Exchange
Input [11]: [party_name#13447, party_id#13448, company_id#13449, deleted_at#13450, county#13461, transaction_type#13462,
fc_transaction_date#13463, fc_recorded_date#13464, fcdateupdated#13508, fctransactionid#13467, pdf_id#13468]
Arguments: hashpartitioning(pdf_id#13468, 200), ENSURE_REQUIREMENTS, [plan_id=155657]

(713) Scan JDBCRelation((SELECT pdf_id FROM public.pdf_record) SPARK_GEN_SUBQ_4440) [numPartitions=1] [codegen id : 78]
Output [1]: [pdf_id#13489]
Arguments: [pdf_id#13489], [StructField(pdf_id,StringType,true)], {IsNotNull(pdf_id)}, {IsNotNull(pdf_id)},
PushedDownOperators(None,None,None,None,List(),List()), JDBCRDD[1657] at Spark Connect - session_id: "1b4f6863-c045-4bc4-8d01-
46ee376b2f58"
user_context {
  user_id: "6106180720153940"
  user_name: "anton@forecasa...., JDBCRelation((SELECT pdf_id FROM public.pdf_record) SPARK_GEN_SUBQ_4440) [numPartitions=1],
Statistics(sizeInBytes=8.0 EiB, ColumnStat: N/A)
External engine query: SELECT "pdf_id" FROM (SELECT pdf_id FROM public.pdf_record) SPARK_GEN_SUBQ_4440 WHERE ("pdf_id" IS NOT NULL)

(714) PhotonRowToColumnar
Input [1]: [pdf_id#13489]

(715) PhotonShuffleExchangeSink
Input [1]: [pdf_id#13489]
Arguments: hashpartitioning(pdf_id#13489, 200)

(716) PhotonShuffleMapStage
Input [1]: [pdf_id#13489]
Arguments: ENSURE_REQUIREMENTS, [id=#155665]

(717) ShuffleQueryStage
Output [1]: [pdf_id#13489]
Arguments: 77, Statistics(sizeInBytes=8.0 EiB, ColumnStat: N/A)

(718) ShuffledHashJoin
Left keys [1]: [pdf_id#13468]
Right keys [1]: [pdf_id#13489]
Join type: LeftOuter
Join condition: None

(719) Project
Output [11]: [party_name#13447, party_id#13448, company_id#13449, deleted_at#13450, county#13461, transaction_type#13462,
fc_transaction_date#13463, fc_recorded_date#13464, fcdateupdated#13508, fctransactionid#13467, ((isnotnull(pdf_id#13489) AND
(transaction_type#13462 = MORTGAGE)) <=> true) AS has_pdf#13542]
Input [12]: [party_name#13447, party_id#13448, company_id#13449, deleted_at#13450, county#13461, transaction_type#13462,
fc_transaction_date#13463, fc_recorded_date#13464, fcdateupdated#13508, fctransactionid#13467, pdf_id#13468, pdf_id#13489]

(720) HashAggregate
Input [11]: [party_name#13447, party_id#13448, company_id#13449, deleted_at#13450, county#13461, transaction_type#13462,
fc_transaction_date#13463, fc_recorded_date#13464, fcdateupdated#13508, fctransactionid#13467, has_pdf#13542]
Keys [11]: [party_name#13447, party_id#13448, company_id#13449, deleted_at#13450, county#13461, transaction_type#13462,
fc_transaction_date#13463, fc_recorded_date#13464, fcdateupdated#13508, fctransactionid#13467, has_pdf#13542]
Functions: []
Aggregate Attributes: []
Results [11]: [party_name#13447, party_id#13448, company_id#13449, deleted_at#13450, county#13461, transaction_type#13462,
fc_transaction_date#13463, fc_recorded_date#13464, fcdateupdated#13508, fctransactionid#13467, has_pdf#13542]

(721) Exchange
Input [11]: [party_name#13447, party_id#13448, company_id#13449, deleted_at#13450, county#13461, transaction_type#13462,
```


fc_transaction_date#13463, fc_recorded_date#13464, fcdateupdated#13508, fctransactionid#13467, has_pdf#13542]
Arguments: hashpartitioning(party_name#13447, party_id#13448, company_id#13449, deleted_at#13450, county#13461, transaction_type#13462, fc_transaction_date#13463, fc_recorded_date#13464, fcdateupdated#13508, fctransactionid#13467, has_pdf#13542, 200), ENSURE_REQUIREMENTS, [plan_id=155671])

(722) HashAggregate

Input [11]: [party_name#13447, party_id#13448, company_id#13449, deleted_at#13450, county#13461, transaction_type#13462, fc_transaction_date#13463, fc_recorded_date#13464, fcdateupdated#13508, fctransactionid#13467, has_pdf#13542]

Keys [11]: [party_name#13447, party_id#13448, company_id#13449, deleted_at#13450, county#13461, transaction_type#13462, fc_transaction_date#13463, fc_recorded_date#13464, fcdateupdated#13508, fctransactionid#13467, has_pdf#13542]

Functions: []

Aggregate Attributes: []

Results [11]: [party_name#13447, party_id#13448, company_id#13449, deleted_at#13450, county#13461, transaction_type#13462, fc_transaction_date#13463, fc_recorded_date#13464, fcdateupdated#13508, fctransactionid#13467, has_pdf#13542]

(723) Union

(724) HashAggregate

Input [11]: [party_name#13338, party_id#13339, company_id#13340, deleted_at#13341, county#13352, transaction_type#13353, fc_transaction_date#13354, fc_recorded_date#13355, fcdateupdated#13398, fctransactionid#13358, has_pdf#13430]

Keys [11]: [party_name#13338, party_id#13339, company_id#13340, deleted_at#13341, county#13352, transaction_type#13353, fc_transaction_date#13354, fc_recorded_date#13355, fcdateupdated#13398, fctransactionid#13358, has_pdf#13430]

Functions: []

Aggregate Attributes: []

Results [11]: [party_name#13338, party_id#13339, company_id#13340, deleted_at#13341, county#13352, transaction_type#13353, fc_transaction_date#13354, fc_recorded_date#13355, fcdateupdated#13398, fctransactionid#13358, has_pdf#13430]

(725) Exchange

Input [11]: [party_name#13338, party_id#13339, company_id#13340, deleted_at#13341, county#13352, transaction_type#13353, fc_transaction_date#13354, fc_recorded_date#13355, fcdateupdated#13398, fctransactionid#13358, has_pdf#13430]

Arguments: hashpartitioning(party_name#13338, party_id#13339, company_id#13340, deleted_at#13341, county#13352, transaction_type#13353, fc_transaction_date#13354, fc_recorded_date#13355, fcdateupdated#13398, fctransactionid#13358, has_pdf#13430, 200), ENSURE_REQUIREMENTS, [plan_id=155675])

(726) HashAggregate

Input [11]: [party_name#13338, party_id#13339, company_id#13340, deleted_at#13341, county#13352, transaction_type#13353, fc_transaction_date#13354, fc_recorded_date#13355, fcdateupdated#13398, fctransactionid#13358, has_pdf#13430]

Keys [11]: [party_name#13338, party_id#13339, company_id#13340, deleted_at#13341, county#13352, transaction_type#13353, fc_transaction_date#13354, fc_recorded_date#13355, fcdateupdated#13398, fctransactionid#13358, has_pdf#13430]

Functions: []

Aggregate Attributes: []

Results [5]: [party_id#13339, county#13352, fc_transaction_date#13354, fc_recorded_date#13355, fctransactionid#13358]

(727) Sort

Input [5]: [party_id#13339, county#13352, fc_transaction_date#13354, fc_recorded_date#13355, fctransactionid#13358]

Arguments: [party_id#13339 ASC NULLS FIRST, fc_recorded_date#13355 DESC NULLS LAST, fc_transaction_date#13354 DESC NULLS LAST], false, 0

(728) RunningWindowFunction

Input [5]: [party_id#13339, county#13352, fc_transaction_date#13354, fc_recorded_date#13355, fctransactionid#13358]

Arguments: [party_id#13339, county#13352, fc_transaction_date#13354, fc_recorded_date#13355, fctransactionid#13358, row_number() window specification (party_id#13339, fc_recorded_date#13355 DESC NULLS LAST, fc_transaction_date#13354 DESC NULLS LAST, specifiedwindowframe (RowFrame, unboundedpreceding\$(), currentrow\$())) AS _local_row_number#14276], [party_id#13339], [fc_recorded_date#13355 DESC NULLS LAST, fc_transaction_date#13354 DESC NULLS LAST], true

(729) Filter

Input [6]: [party_id#13339, county#13352, fc_transaction_date#13354, fc_recorded_date#13355, fctransactionid#13358, _local_row_number#14276]

Condition : (_local_row_number#14276 <= 1)

(730) Project

Output [5]: [party_id#13339, county#13352, fc_transaction_date#13354, fc_recorded_date#13355, fctransactionid#13358]

Input [6]: [party_id#13339, county#13352, fc_transaction_date#13354, fc_recorded_date#13355, fctransactionid#13358, _local_row_number#14276]

(731) Exchange

Input [5]: [party_id#13339, county#13352, fc_transaction_date#13354, fc_recorded_date#13355, fctransactionid#13358]

Arguments: hashpartitioning(party_id#13339, 200), ENSURE_REQUIREMENTS, [plan_id=155681])

(732) Sort

Input [5]: [party_id#13339, county#13352, fc_transaction_date#13354, fc_recorded_date#13355, fctransactionid#13358]

Arguments: [party_id#13339 ASC NULLS FIRST, fc_recorded_date#13355 DESC NULLS LAST, fc_transaction_date#13354 DESC NULLS LAST], false, 0

(733) RunningWindowFunction

Input [5]: [party_id#13339, county#13352, fc_transaction_date#13354, fc_recorded_date#13355, fctransactionid#13358]

Arguments: [party_id#13339, county#13352, fctransactionid#13358, row_number() window specification (party_id#13339, fc_recorded_date#13355 DESC NULLS LAST, fc_transaction_date#13354 DESC NULLS LAST, specifiedwindowframe (RowFrame, unboundedpreceding\$(), currentrow\$())) AS rn#13572], [party_id#13339], [fc_recorded_date#13355 DESC NULLS LAST, fc_transaction_date#13354 DESC NULLS LAST], false

(734) Filter

Input [4]: [party_id#13339, county#13352, fctransactionid#13358, rn#13572]

Condition : (rn#13572 = 1)

(735) Project

Output [3]: [party_id#13339, county#13352, fctransactionid#13358]
Input [4]: [party_id#13339, county#13352, fctransactionid#13358, rn#13572]

(736) Exchange

Input [3]: [party_id#13339, county#13352, fctransactionid#13358]
Arguments: hashpartitioning(fctransactionid#13358, 200), ENSURE_REQUIREMENTS, [plan_id=155686]

(737) Scan JDBCRelation((

```
SELECT
  "County" as county,
  "Transaction_Type" as transaction_type,
  "FC_Transaction_Date" as fc_transaction_date,
  "FC_Recorded_Date" as fc_recorded_date,
  "FC_Cross_Party" as fc_cross_party,
  fcdateupdated,
  fctransactionid,
  "PDF_ID" as pdf_id
FROM public.transaction) SPARK_GEN_SUBQ_4448) [numPartitions=1] [codegen id : 79]
```

Output [3]: [fc_recorded_date#13589, fc_cross_party#13590, fctransactionid#13592]
Arguments: [fc_recorded_date#13589, fc_cross_party#13590, fctransactionid#13592], [StructField(fc_recorded_date,StringType,true), StructField(fc_cross_party,StringType,true), StructField(fctransactionid,StringType,true)], {IsNotNull(fctransactionid)}, {NotNull(fctransactionid)}, PushedDownOperators(None,None,None,None,List(),List()), JDBCRDD[1658] at Spark Connect - session_id: "1b4f6863-c045-4bc4-8d01-46ee376b2f58"

```
user_context {
  user_id: "6106180720153940"
  user_name: "anton@forecasa...., JDBCRelation((
```

```
SELECT
  "County" as county,
  "Transaction_Type" as transaction_type,
  "FC_Transaction_Date" as fc_transaction_date,
  "FC_Recorded_Date" as fc_recorded_date,
  "FC_Cross_Party" as fc_cross_party,
  fcdateupdated,
  fctransactionid,
  "PDF_ID" as pdf_id
```

FROM public.transaction) SPARK_GEN_SUBQ_4448) [numPartitions=1], Statistics(sizeInBytes=8.0 EiB, ColumnStat: N/A)

External engine query: SELECT "fc_recorded_date","fc_cross_party","fctransactionid" FROM (

```
SELECT
  "County" as county,
  "Transaction_Type" as transaction_type,
  "FC_Transaction_Date" as fc_transaction_date,
  "FC_Recorded_Date" as fc_recorded_date,
  "FC_Cross_Party" as fc_cross_party,
  fcdateupdated,
  fctransactionid,
  "PDF_ID" as pdf_id
FROM public.transaction) SPARK_GEN_SUBQ_4448 WHERE ("fctransactionid" IS NOT NULL)
```

(738) PhotonRowToColumnar

Input [3]: [fc_recorded_date#13589, fc_cross_party#13590, fctransactionid#13592]

(739) PhotonShuffleExchangeSink

Input [3]: [fc_recorded_date#13589, fc_cross_party#13590, fctransactionid#13592]
Arguments: hashpartitioning(fctransactionid#13592, 200)

(740) PhotonShuffleMapStage

Input [3]: [fc_recorded_date#13589, fc_cross_party#13590, fctransactionid#13592]
Arguments: ENSURE_REQUIREMENTS, [id=#155694]

(741) ShuffleQueryStage

Output [3]: [fc_recorded_date#13589, fc_cross_party#13590, fctransactionid#13592]
Arguments: 78, Statistics(sizeInBytes=8.0 EiB, ColumnStat: N/A)

(742) ShuffledHashJoin

Left keys [1]: [fctransactionid#13358]
Right keys [1]: [fctransactionid#13592]
Join type: Inner
Join condition: None

(743) Project

Output [4]: [party_id#13339, substring(fc_cross_party#13590, 1, 200) AS Last Lender Used#13602, FC_Recorded_Date#13589 AS Last_Mortgage_Date#13603, County#13352 AS last_county#13604]
Input [6]: [party_id#13339, county#13352, fctransactionid#13358, fc_recorded_date#13589, fc_cross_party#13590, fctransactionid#13592]

(744) Exchange

Input [4]: [party_id#13339, Last Lender Used#13602, Last_Mortgage_Date#13603, last_county#13604]
Arguments: hashpartitioning(party_id#13339, 200), ENSURE_REQUIREMENTS, [plan_id=155699]

(745) ShuffledHashJoin

Left keys [1]: [party_id#12418]
Right keys [1]: [party_id#13339]
Join type: LeftOuter
Join condition: None

(746) Project

Output [23]: [party_name#12417, party_id#12418, company_id#12419, deleted_at#12648, has_pdf#12649, Mortgage Transactions#12650L, Deed Transactions#12651L, Satisfaction of Mortgage Transactions#12652L, Assignment of Mortgage Transactions#12653L, lis_pendens_transactions#12654L, judgment_transactions#12655L, loan_modification_transactions#12656L, Most Recent Transaction#12879, fcdateupdated#12880, Last Purchase Date#12994, Last Sale Date#13104, Transactions as Seller#13217L, Transactions as Borrower#13218L, Transactions as Buyer#13336L, Transactions as Lender#13337L, Last Lender Used#13602, Last_Mortgage_Date#13603, last_county#13604]
Input [24]: [party_name#12417, party_id#12418, company_id#12419, deleted_at#12648, has_pdf#12649, Mortgage Transactions#12650L, Deed Transactions#12651L, Satisfaction of Mortgage Transactions#12652L, Assignment of Mortgage Transactions#12653L, lis_pendens_transactions#12654L, judgment_transactions#12655L, loan_modification_transactions#12656L, Most Recent Transaction#12879, fcdateupdated#12880, Last Purchase Date#12994, Last Sale Date#13104, Transactions as Seller#13217L, Transactions as Borrower#13218L, Transactions as Buyer#13336L, Transactions as Lender#13337L, party_id#13339, Last Lender Used#13602, Last_Mortgage_Date#13603, last_county#13604]

(747) LocalLimit

Input [23]: [party_name#12417, party_id#12418, company_id#12419, deleted_at#12648, has_pdf#12649, Mortgage Transactions#12650L, Deed Transactions#12651L, Satisfaction of Mortgage Transactions#12652L, Assignment of Mortgage Transactions#12653L, lis_pendens_transactions#12654L, judgment_transactions#12655L, loan_modification_transactions#12656L, Most Recent Transaction#12879, fcdateupdated#12880, Last Purchase Date#12994, Last Sale Date#13104, Transactions as Seller#13217L, Transactions as Borrower#13218L, Transactions as Buyer#13336L, Transactions as Lender#13337L, Last Lender Used#13602, Last_Mortgage_Date#13603, last_county#13604]
Arguments: 21

(748) Scan JDBCRelation((SELECT party_name, party_id, company_id, deleted_at, updated_at FROM public.party) SPARK_GEN_SUBQ_4456) [numPartitions=1] [codegen id : 80]

Output [5]: [party_name#13605, party_id#13606, company_id#13607, deleted_at#13608, updated_at#13609]
Arguments: [party_name#13605, party_id#13606, company_id#13607, deleted_at#13608, updated_at#13609], [StructField(party_name,StringType,true), StructField(party_id,IntegerType,true), StructField(company_id,IntegerType,true), StructField(deleted_at,TimestampType,true), StructField(updated_at,TimestampType,true)], {NotNull(party_id)}, {NotNull(party_id)}, PushedDownOperators(None,None,None,None,List(),List()), JDBCRDD[1659] at Spark Connect - session_id: "1b4f6863-c045-4bc4-8d01-46ee376b2f58"
user_context {
 user_id: "6106180720153940"
 user_name: "anton@forecasa...., JDBCRelation((SELECT party_name, party_id, company_id, deleted_at, updated_at FROM public.party) SPARK_GEN_SUBQ_4456) [numPartitions=1], Statistics(sizeInBytes=8.0 EiB, ColumnStat: N/A)
External engine query: SELECT "party_name","party_id","company_id","deleted_at","updated_at" FROM (SELECT party_name, party_id, company_id, deleted_at, updated_at FROM public.party) SPARK_GEN_SUBQ_4456 WHERE ("party_id" IS NOT NULL)

(749) PhotonRowToColumnar

Input [5]: [party_name#13605, party_id#13606, company_id#13607, deleted_at#13608, updated_at#13609]

(750) PhotonShuffleExchangeSink

Input [5]: [party_name#13605, party_id#13606, company_id#13607, deleted_at#13608, updated_at#13609]
Arguments: hashpartitioning(party_id#13606, 200)

(751) PhotonShuffleMapStage

Input [5]: [party_name#13605, party_id#13606, company_id#13607, deleted_at#13608, updated_at#13609]
Arguments: ENSURE_REQUIREMENTS, [id=#155710]

(752) ShuffleQueryStage

Output [5]: [party_name#13605, party_id#13606, company_id#13607, deleted_at#13608, updated_at#13609]
Arguments: 79, Statistics(sizeInBytes=8.0 EiB, ColumnStat: N/A)

(753) Scan JDBCRelation((SELECT distinct party_id, transaction_id FROM public.transaction_party_name) SPARK_GEN_SUBQ_4464) [numPartitions=1] [codegen id : 81]

Output [2]: [party_id#13615, transaction_id#13616]
Arguments: [party_id#13615, transaction_id#13616], [StructField(party_id,IntegerType,true), StructField(transaction_id,StringType,true)], {NotNull(party_id), NotNull(transaction_id)}, {NotNull(party_id), NotNull(transaction_id)}, PushedDownOperators(None,None,None,None,List(),List()), JDBCRDD[1660] at Spark Connect - session_id: "1b4f6863-c045-4bc4-8d01-46ee376b2f58"
user_context {
 user_id: "6106180720153940"
 user_name: "anton@forecasa...., JDBCRelation((SELECT distinct party_id, transaction_id FROM public.transaction_party_name) SPARK_GEN_SUBQ_4464) [numPartitions=1], Statistics(sizeInBytes=8.0 EiB, ColumnStat: N/A)
External engine query: SELECT "party_id","transaction_id" FROM (SELECT distinct party_id, transaction_id FROM public.transaction_party_name) SPARK_GEN_SUBQ_4464 WHERE ("party_id" IS NOT NULL) AND ("transaction_id" IS NOT NULL)

(754) PhotonRowToColumnar

Input [2]: [party_id#13615, transaction_id#13616]

(755) PhotonShuffleExchangeSink

Input [2]: [party_id#13615, transaction_id#13616]
Arguments: hashpartitioning(party_id#13615, 200)

(756) PhotonShuffleMapStage

Input [2]: [party_id#13615, transaction_id#13616]
Arguments: ENSURE_REQUIREMENTS, [id=#155720]

(757) ShuffleQueryStage

Output [2]: [party_id#13615, transaction_id#13616]
Arguments: 80, Statistics(sizeInBytes=8.0 EiB, ColumnStat: N/A)

(758) ShuffledHashJoin

Left keys [1]: [party_id#13606]

Right keys [1]: [party_id#13615]

Join type: Inner

Join condition: None

(759) Project

Output [6]: [party_id#13606, party_name#13605, company_id#13607, deleted_at#13608, updated_at#13609, transaction_id#13616]

Input [7]: [party_name#13605, party_id#13606, company_id#13607, deleted_at#13608, updated_at#13609, party_id#13615, transaction_id#13616]

(760) HashAggregate

Input [6]: [party_id#13606, party_name#13605, company_id#13607, deleted_at#13608, updated_at#13609, transaction_id#13616]

Keys [6]: [party_name#13605, party_id#13606, company_id#13607, deleted_at#13608, transaction_id#13616, updated_at#13609]

Functions: []

Aggregate Attributes: []

Results [6]: [party_name#13605, party_id#13606, company_id#13607, deleted_at#13608, transaction_id#13616, updated_at#13609]

(761) Exchange

Input [6]: [party_name#13605, party_id#13606, company_id#13607, deleted_at#13608, transaction_id#13616, updated_at#13609]

Arguments: hashpartitioning(transaction_id#13616, 200), ENSURE_REQUIREMENTS, [plan_id=155726]

(762) Scan JDBCRelation((

SELECT

```
"County" as county,
"Transaction_Type" as transaction_type,
"FC_Transaction_Date" as fc_transaction_date,
"FC_Recorded_Date" as fc_recorded_date,
"FC_Cross_Party" as fc_cross_party,
fcdateupdated,
fctransactionid,
"PDF_ID" as pdf_id
```

FROM public.transaction) SPARK_GEN_SUBQ_4472) [numPartitions=1] [codegen id : 82]

Output [7]: [county#13619, transaction_type#13620, fc_transaction_date#13621, fc_recorded_date#13622, fcdateupdated#13624, fctransactionid#13625, pdf_id#13626]

Arguments: [county#13619, transaction_type#13620, fc_transaction_date#13621, fc_recorded_date#13622, fcdateupdated#13624, fctransactionid#13625, pdf_id#13626], [StructField(county,StringType,true), StructField(transaction_type,StringType,true), StructField(fc_transaction_date,StringType,true), StructField(fc_recorded_date,StringType,true), StructField(fcdateupdated,TimestampType,true), StructField(fctransactionid,StringType,true), StructField(pdf_id,StringType,true)], {EqualTo(transaction_type,MORTGAGE), IsNotNull(fctransactionid), IsNotNull(transaction_type)}, {EqualTo(transaction_type,MORTGAGE), IsNotNull(fctransactionid), IsNotNull(transaction_type)}, PushedDownOperators(None,None,None,None,List(),List()), JDBCRDD[1661] at Spark Connect - session_id: "1b4f6863-c045-4bc4-8d01-46ee376b2f58"

user_context {

user_id: "6106180720153940"

user_name: "anton@forecasa...., JDBCRelation((

SELECT

```
"County" as county,
"Transaction_Type" as transaction_type,
"FC_Transaction_Date" as fc_transaction_date,
"FC_Recorded_Date" as fc_recorded_date,
"FC_Cross_Party" as fc_cross_party,
fcdateupdated,
fctransactionid,
"PDF_ID" as pdf_id
```

FROM public.transaction) SPARK_GEN_SUBQ_4472) [numPartitions=1], Statistics(sizeInBytes=8.0 EiB, ColumnStat: N/A)

External engine query: SELECT

"county","transaction_type","fc_transaction_date","fc_recorded_date","fcdateupdated","fctransactionid","pdf_id" FROM (

SELECT

```
"County" as county,
"Transaction_Type" as transaction_type,
"FC_Transaction_Date" as fc_transaction_date,
"FC_Recorded_Date" as fc_recorded_date,
"FC_Cross_Party" as fc_cross_party,
fcdateupdated,
fctransactionid,
"PDF_ID" as pdf_id
```

FROM public.transaction) SPARK_GEN_SUBQ_4472 WHERE ("transaction_type" IS NOT NULL) AND ("fctransactionid" IS NOT NULL) AND ("transaction_type" = 'MORTGAGE')

(763) PhotonRowToColumnar

Input [7]: [county#13619, transaction_type#13620, fc_transaction_date#13621, fc_recorded_date#13622, fcdateupdated#13624, fctransactionid#13625, pdf_id#13626]

(764) PhotonShuffleExchangeSink

Input [7]: [county#13619, transaction_type#13620, fc_transaction_date#13621, fc_recorded_date#13622, fcdateupdated#13624, fctransactionid#13625, pdf_id#13626]

Arguments: hashpartitioning(fctransactionid#13625, 200)

(765) PhotonShuffleMapStage

Input [7]: [county#13619, transaction_type#13620, fc_transaction_date#13621, fc_recorded_date#13622, fcdateupdated#13624, fctransactionid#13625, pdf_id#13626]

Arguments: ENSURE_REQUIREMENTS, [id=#155734]

(766) ShuffleQueryStage

Output [7]: [county#13619, transaction_type#13620, fc_transaction_date#13621, fc_recorded_date#13622, fcdateupdated#13624, fctransactionid#13625, pdf_id#13626]

Arguments: 81, Statistics(sizeInBytes=8.0 EiB, ColumnStat: N/A)

(767) ShuffledHashJoin

Left keys [1]: [transaction_id#13616]

Right keys [1]: [fctransactionid#13625]

Join type: Inner

Join condition: None

(768) Project

Output [11]: [party_name#13605, party_id#13606, company_id#13607, deleted_at#13608, county#13619, transaction_type#13620, fc_transaction_date#13621, fc_recorded_date#13622, greatest(fcdateupdated#13624, updated_at#13609) AS fcdateupdated#13665, fctransactionid#13625, pdf_id#13626]

Input [13]: [party_name#13605, party_id#13606, company_id#13607, deleted_at#13608, transaction_id#13616, updated_at#13609, county#13619, transaction_type#13620, fc_transaction_date#13621, fc_recorded_date#13622, fcdateupdated#13624, fctransactionid#13625, pdf_id#13626]

(769) HashAggregate

Input [11]: [party_name#13605, party_id#13606, company_id#13607, deleted_at#13608, county#13619, transaction_type#13620, fc_transaction_date#13621, fc_recorded_date#13622, fcdateupdated#13665, fctransactionid#13625, pdf_id#13626]

Keys [11]: [party_name#13605, party_id#13606, company_id#13607, deleted_at#13608, county#13619, transaction_type#13620, fc_transaction_date#13621, fc_recorded_date#13622, fcdateupdated#13665, fctransactionid#13625, pdf_id#13626]

Functions: []

Aggregate Attributes: []

Results [11]: [party_name#13605, party_id#13606, company_id#13607, deleted_at#13608, county#13619, transaction_type#13620, fc_transaction_date#13621, fc_recorded_date#13622, fcdateupdated#13665, fctransactionid#13625, pdf_id#13626]

(770) Exchange

Input [11]: [party_name#13605, party_id#13606, company_id#13607, deleted_at#13608, county#13619, transaction_type#13620, fc_transaction_date#13621, fc_recorded_date#13622, fcdateupdated#13665, fctransactionid#13625, pdf_id#13626]

Arguments: hashpartitioning(party_id#13606, 200), ENSURE_REQUIREMENTS, [plan_id=155740]

(771) Scan JDBCRelation((SELECT distinct party_id, transaction_id FROM public.transaction_party_name) SPARK_GEN_SUBQ_4480)

[numPartitions=1] [codegen id : 83]

Output [2]: [party_id#13635, transaction_id#13636]

Arguments: [party_id#13635, transaction_id#13636], [StructField(party_id,IntegerType,true), StructField(transaction_id,StringType,true)], {IsNotNull(party_id), IsNotNull(transaction_id)}, {IsNotNull(party_id), IsNotNull(transaction_id)},

PushedDownOperators(None,None,None,None,List(),List()), JDBCRDD[1662] at Spark Connect - session_id: "1b4f6863-c045-4bc4-8d01-46ee376b2f58"

user_context {

user_id: "6106180720153940"

user_name: "anton@forecasa..., JDBCRelation((SELECT distinct party_id, transaction_id FROM public.transaction_party_name)

SPARK_GEN_SUBQ_4480) [numPartitions=1], Statistics(sizeInBytes=8.0 EiB, ColumnStat: N/A)

External engine query: SELECT "party_id","transaction_id" FROM (SELECT distinct party_id, transaction_id FROM

public.transaction_party_name) SPARK_GEN_SUBQ_4480 WHERE ("party_id" IS NOT NULL) AND ("transaction_id" IS NOT NULL)

(772) PhotonRowToColumnar

Input [2]: [party_id#13635, transaction_id#13636]

(773) PhotonShuffleExchangeSink

Input [2]: [party_id#13635, transaction_id#13636]

Arguments: hashpartitioning(transaction_id#13636, 200)

(774) PhotonShuffleMapStage

Input [2]: [party_id#13635, transaction_id#13636]

Arguments: ENSURE_REQUIREMENTS, [id=#155748]

(775) ShuffleQueryStage

Output [2]: [party_id#13635, transaction_id#13636]

Arguments: 82, Statistics(sizeInBytes=8.0 EiB, ColumnStat: N/A)

(776) Scan JDBCRelation((SELECT fc_transaction_id FROM publish.transactions WHERE fc_updated_at > '2000-04-16 12:00:00')

SPARK_GEN_SUBQ_4488) [numPartitions=1] [codegen id : 84]

Output [1]: [fc_transaction_id#13639]

Arguments: [fc_transaction_id#13639], [StructField(fc_transaction_id,StringType,true)], {IsNotNull(fc_transaction_id)}, {IsNotNull(fc_transaction_id)}, PushedDownOperators(None,None,None,None,List(),List()), JDBCRDD[1663] at Spark Connect - session_id:

"1b4f6863-c045-4bc4-8d01-46ee376b2f58"

user_context {

user_id: "6106180720153940"

user_name: "anton@forecasa..., JDBCRelation((SELECT fc_transaction_id FROM publish.transactions WHERE fc_updated_at > '2000-04-16 12:00:00') SPARK_GEN_SUBQ_4488) [numPartitions=1], Statistics(sizeInBytes=8.0 EiB, ColumnStat: N/A)

External engine query: SELECT "fc_transaction_id" FROM (SELECT fc_transaction_id FROM publish.transactions WHERE fc_updated_at > '2000-04-16 12:00:00') SPARK_GEN_SUBQ_4488 WHERE ("fc_transaction_id" IS NOT NULL)

(777) PhotonRowToColumnar

Input [1]: [fc_transaction_id#13639]

(778) PhotonShuffleExchangeSink

Input [1]: [fc_transaction_id#13639]

Arguments: hashpartitioning(fc_transaction_id#13639, 200)

(779) PhotonShuffleMapStage

Input [1]: [fc_transaction_id#13639]

Arguments: ENSURE_REQUIREMENTS, [id=#155758]

```
(780) ShuffleQueryStage
Output [1]: [fc_transaction_id#13639]
Arguments: 83, Statistics(sizeInBytes=8.0 EiB, ColumnStat: N/A)

(781) ShuffledHashJoin
Left keys [1]: [transaction_id#13636]
Right keys [1]: [fc_transaction_id#13639]
Join type: LeftSemi
Join condition: None

(782) Project
Output [1]: [party_id#13635]
Input [2]: [party_id#13635, transaction_id#13636]

(783) HashAggregate
Input [1]: [party_id#13635]
Keys [1]: [party_id#13635]
Functions: []
Aggregate Attributes: []
Results [1]: [party_id#13635]

(784) Exchange
Input [1]: [party_id#13635]
Arguments: hashpartitioning(party_id#13635, 200), ENSURE_REQUIREMENTS, [plan_id=155764]

(785) HashAggregate
Input [1]: [party_id#13635]
Keys [1]: [party_id#13635]
Functions: []
Aggregate Attributes: []
Results [1]: [party_id#13635]

(786) Scan JDBCRelation((SELECT distinct party_id, transaction_id FROM public.transaction_party_cross_party) SPARK_GEN_SUBQ_4496)
[numPartitions=1] [codegen id : 85]
Output [2]: [party_id#13641, transaction_id#13642]
Arguments: [party_id#13641, transaction_id#13642], [StructField(party_id,IntegerType,true), StructField(transaction_id,StringType,true)],
{IsNotNull(party_id), IsNotNull(transaction_id)}, {IsNotNull(party_id), IsNotNull(transaction_id)},
PushedDownOperators(None,None,None,None,List(),List()), JDBCRDD[1664] at Spark Connect - session_id: "1b4f6863-c045-4bc4-8d01-46ee376b2f58"
user_context {
  user_id: "6106180720153940"
  user_name: "anton@forecasa...., JDBCRelation((SELECT distinct party_id, transaction_id FROM public.transaction_party_cross_party)
SPARK_GEN_SUBQ_4496) [numPartitions=1], Statistics(sizeInBytes=8.0 EiB, ColumnStat: N/A)
External engine query: SELECT "party_id","transaction_id" FROM (SELECT distinct party_id, transaction_id FROM
public.transaction_party_cross_party) SPARK_GEN_SUBQ_4496 WHERE ("party_id" IS NOT NULL) AND ("transaction_id" IS NOT NULL)

(787) PhotonRowToColumnar
Input [2]: [party_id#13641, transaction_id#13642]

(788) PhotonShuffleExchangeSink
Input [2]: [party_id#13641, transaction_id#13642]
Arguments: hashpartitioning(transaction_id#13642, 200)

(789) PhotonShuffleMapStage
Input [2]: [party_id#13641, transaction_id#13642]
Arguments: ENSURE_REQUIREMENTS, [id=#155773]

(790) ShuffleQueryStage
Output [2]: [party_id#13641, transaction_id#13642]
Arguments: 84, Statistics(sizeInBytes=8.0 EiB, ColumnStat: N/A)

(791) Scan JDBCRelation((SELECT fc_transaction_id FROM publish.transactions WHERE fc_updated_at > '2000-04-16 12:00:00')
SPARK_GEN_SUBQ_4504) [numPartitions=1] [codegen id : 86]
Output [1]: [fc_transaction_id#13645]
Arguments: [fc_transaction_id#13645], [StructField(fc_transaction_id,StringType,true)], {IsNotNull(fc_transaction_id)},
{IsNotNull(fc_transaction_id)}, PushedDownOperators(None,None,None,None,List(),List()), JDBCRDD[1665] at Spark Connect - session_id:
"1b4f6863-c045-4bc4-8d01-46ee376b2f58"
user_context {
  user_id: "6106180720153940"
  user_name: "anton@forecasa...., JDBCRelation((SELECT fc_transaction_id FROM publish.transactions WHERE fc_updated_at > '2000-04-16
12:00:00') SPARK_GEN_SUBQ_4504) [numPartitions=1], Statistics(sizeInBytes=8.0 EiB, ColumnStat: N/A)
External engine query: SELECT "fc_transaction_id" FROM (SELECT fc_transaction_id FROM publish.transactions WHERE fc_updated_at > '2000-04-
16 12:00:00') SPARK_GEN_SUBQ_4504 WHERE ("fc_transaction_id" IS NOT NULL)

(792) PhotonRowToColumnar
Input [1]: [fc_transaction_id#13645]

(793) PhotonShuffleExchangeSink
Input [1]: [fc_transaction_id#13645]
Arguments: hashpartitioning(fc_transaction_id#13645, 200)

(794) PhotonShuffleMapStage
Input [1]: [fc_transaction_id#13645]
```

Arguments: ENSURE_REQUIREMENTS, [id=#155783]

(795) ShuffleQueryStage

Output [1]: [fc_transaction_id#13645]

Arguments: 85, Statistics(sizeInBytes=8.0 EiB, ColumnStat: N/A)

(796) ShuffledHashJoin

Left keys [1]: [transaction_id#13642]

Right keys [1]: [fc_transaction_id#13645]

Join type: LeftSemi

Join condition: None

(797) Project

Output [1]: [party_id#13641]

Input [2]: [party_id#13641, transaction_id#13642]

(798) HashAggregate

Input [1]: [party_id#13641]

Keys [1]: [party_id#13641]

Functions: []

Aggregate Attributes: []

Results [1]: [party_id#13641]

(799) Exchange

Input [1]: [party_id#13641]

Arguments: hashpartitioning(party_id#13641, 200), ENSURE_REQUIREMENTS, [plan_id=155789]

(800) HashAggregate

Input [1]: [party_id#13641]

Keys [1]: [party_id#13641]

Functions: []

Aggregate Attributes: []

Results [1]: [party_id#13641]

(801) Union

(802) HashAggregate

Input [1]: [party_id#13635]

Keys [1]: [party_id#13635]

Functions: []

Aggregate Attributes: []

Results [1]: [party_id#13635]

(803) Exchange

Input [1]: [party_id#13635]

Arguments: hashpartitioning(party_id#13635, 200), ENSURE_REQUIREMENTS, [plan_id=155793]

(804) ShuffledHashJoin

Left keys [1]: [party_id#13606]

Right keys [1]: [party_id#13635]

Join type: LeftSemi

Join condition: None

(805) HashAggregate

Input [11]: [party_name#13605, party_id#13606, company_id#13607, deleted_at#13608, county#13619, transaction_type#13620, fc_transaction_date#13621, fc_recorded_date#13622, fcdateupdated#13665, fctransactionid#13625, pdf_id#13626]

Keys [11]: [party_name#13605, party_id#13606, company_id#13607, deleted_at#13608, county#13619, transaction_type#13620, fc_transaction_date#13621, fc_recorded_date#13622, fcdateupdated#13665, fctransactionid#13625, pdf_id#13626]

Functions: []

Aggregate Attributes: []

Results [11]: [party_name#13605, party_id#13606, company_id#13607, deleted_at#13608, county#13619, transaction_type#13620, fc_transaction_date#13621, fc_recorded_date#13622, fcdateupdated#13665, fctransactionid#13625, pdf_id#13626]

(806) Exchange

Input [11]: [party_name#13605, party_id#13606, company_id#13607, deleted_at#13608, county#13619, transaction_type#13620, fc_transaction_date#13621, fc_recorded_date#13622, fcdateupdated#13665, fctransactionid#13625, pdf_id#13626]

Arguments: hashpartitioning(pdf_id#13626, 200), ENSURE_REQUIREMENTS, [plan_id=155796]

(807) Scan JDBCRelation((SELECT pdf_id FROM public.pdf_record) SPARK_GEN_SUBQ_4512) [numPartitions=1] [codegen id : 87]

Output [1]: [pdf_id#13647]

Arguments: [pdf_id#13647], [StructField(pdf_id,StringType,true)], {IsNotNull(pdf_id)}, {IsNotNull(pdf_id)},

PushedDownOperators(None,None,None,None,List(),List()), JDBCRDD[1666] at Spark Connect - session_id: "1b4f6863-c045-4bc4-8d01-46ee376b2f58"

user_context {

user_id: "6106180720153940"

user_name: "anton@forecasa...., JDBCRelation((SELECT pdf_id FROM public.pdf_record) SPARK_GEN_SUBQ_4512) [numPartitions=1],

Statistics(sizeInBytes=8.0 EiB, ColumnStat: N/A)

External engine query: SELECT "pdf_id" FROM (SELECT pdf_id FROM public.pdf_record) SPARK_GEN_SUBQ_4512 WHERE ("pdf_id" IS NOT NULL)

(808) PhotonRowToColumnar

Input [1]: [pdf_id#13647]

(809) PhotonShuffleExchangeSink


```
Input [1]: [pdf_id#13647]
Arguments: hashpartitioning(pdf_id#13647, 200)

(810) PhotonShuffleMapStage
Input [1]: [pdf_id#13647]
Arguments: ENSURE_REQUIREMENTS, [id=#155804]

(811) ShuffleQueryStage
Output [1]: [pdf_id#13647]
Arguments: 86, Statistics(sizeInBytes=8.0 EiB, ColumnStat: N/A)

(812) ShuffledHashJoin
Left keys [1]: [pdf_id#13626]
Right keys [1]: [pdf_id#13647]
Join type: LeftOuter
Join condition: None

(813) Project
Output [11]: [party_name#13605, party_id#13606, company_id#13607, deleted_at#13608, county#13619, transaction_type#13620,
fc_transaction_date#13621, fc_recorded_date#13622, fcdateupdated#13665, fctransactionid#13625, ((isnotnull(pdf_id#13647) AND
(transaction_type#13620 = MORTGAGE)) <=> true) AS has_pdf#13697]
Input [12]: [party_name#13605, party_id#13606, company_id#13607, deleted_at#13608, county#13619, transaction_type#13620,
fc_transaction_date#13621, fc_recorded_date#13622, fcdateupdated#13665, fctransactionid#13625, pdf_id#13626, pdf_id#13647]

(814) HashAggregate
Input [11]: [party_name#13605, party_id#13606, company_id#13607, deleted_at#13608, county#13619, transaction_type#13620,
fc_transaction_date#13621, fc_recorded_date#13622, fcdateupdated#13665, fctransactionid#13625, has_pdf#13697]
Keys [11]: [party_name#13605, party_id#13606, company_id#13607, deleted_at#13608, county#13619, transaction_type#13620,
fc_transaction_date#13621, fc_recorded_date#13622, fcdateupdated#13665, fctransactionid#13625, has_pdf#13697]
Functions: []
Aggregate Attributes: []
Results [11]: [party_name#13605, party_id#13606, company_id#13607, deleted_at#13608, county#13619, transaction_type#13620,
fc_transaction_date#13621, fc_recorded_date#13622, fcdateupdated#13665, fctransactionid#13625, has_pdf#13697]

(815) Exchange
Input [11]: [party_name#13605, party_id#13606, company_id#13607, deleted_at#13608, county#13619, transaction_type#13620,
fc_transaction_date#13621, fc_recorded_date#13622, fcdateupdated#13665, fctransactionid#13625, has_pdf#13697]
Arguments: hashpartitioning(party_name#13605, party_id#13606, company_id#13607, deleted_at#13608, county#13619, transaction_type#13620,
fc_transaction_date#13621, fc_recorded_date#13622, fcdateupdated#13665, fctransactionid#13625, has_pdf#13697, 200), ENSURE_REQUIREMENTS,
[plan_id=155810]

(816) HashAggregate
Input [11]: [party_name#13605, party_id#13606, company_id#13607, deleted_at#13608, county#13619, transaction_type#13620,
fc_transaction_date#13621, fc_recorded_date#13622, fcdateupdated#13665, fctransactionid#13625, has_pdf#13697]
Keys [11]: [party_name#13605, party_id#13606, company_id#13607, deleted_at#13608, county#13619, transaction_type#13620,
fc_transaction_date#13621, fc_recorded_date#13622, fcdateupdated#13665, fctransactionid#13625, has_pdf#13697]
Functions: []
Aggregate Attributes: []
Results [11]: [party_name#13605, party_id#13606, company_id#13607, deleted_at#13608, county#13619, transaction_type#13620,
fc_transaction_date#13621, fc_recorded_date#13622, fcdateupdated#13665, fctransactionid#13625, has_pdf#13697]

(817) Scan JDBCRelation((SELECT party_name, party_id, company_id, deleted_at, updated_at FROM public.party) SPARK_GEN_SUBQ_4520)
[numPartitions=1] [codegen id : 88]
Output [5]: [party_name#13714, party_id#13715, company_id#13716, deleted_at#13717, updated_at#13718]
Arguments: [party_name#13714, party_id#13715, company_id#13716, deleted_at#13717, updated_at#13718],
[StructField(party_name,StringType,true), StructField(party_id,IntegerType,true), StructField(company_id,IntegerType,true),
StructField(deleted_at,TimestampType,true), StructField(updated_at,TimestampType,true)], {NotNull(party_id)}, {NotNull(party_id)},
PushedDownOperators(None,None,None,None,List(),List()), JDBCRDD[1667] at Spark Connect - session_id: "1b4f6863-c045-4bc4-8d01-
46ee376b2f58"
user_context {
  user_id: "6106180720153940"
  user_name: "anton@forecasa...., JDBCRelation((SELECT party_name, party_id, company_id, deleted_at, updated_at FROM public.party)
SPARK_GEN_SUBQ_4520) [numPartitions=1], Statistics(sizeInBytes=8.0 EiB, ColumnStat: N/A)
External engine query: SELECT "party_name","party_id","company_id","deleted_at","updated_at" FROM (SELECT party_name, party_id,
company_id, deleted_at, updated_at FROM public.party) SPARK_GEN_SUBQ_4520 WHERE ("party_id" IS NOT NULL)

(818) PhotonRowToColumnar
Input [5]: [party_name#13714, party_id#13715, company_id#13716, deleted_at#13717, updated_at#13718]

(819) PhotonShuffleExchangeSink
Input [5]: [party_name#13714, party_id#13715, company_id#13716, deleted_at#13717, updated_at#13718]
Arguments: hashpartitioning(party_id#13715, 200)

(820) PhotonShuffleMapStage
Input [5]: [party_name#13714, party_id#13715, company_id#13716, deleted_at#13717, updated_at#13718]
Arguments: ENSURE_REQUIREMENTS, [id=#155819]

(821) ShuffleQueryStage
Output [5]: [party_name#13714, party_id#13715, company_id#13716, deleted_at#13717, updated_at#13718]
Arguments: 87, Statistics(sizeInBytes=8.0 EiB, ColumnStat: N/A)

(822) Scan JDBCRelation((SELECT distinct party_id, transaction_id FROM public.transaction_party_cross_party) SPARK_GEN_SUBQ_4528)
[numPartitions=1] [codegen id : 89]
```

```

Output [2]: [party_id#13724, transaction_id#13725]
Arguments: [party_id#13724, transaction_id#13725], [StructField(party_id,IntegerType,true), StructField(transaction_id,StringType,true)],
{IsNotNull(party_id), IsNotNull(transaction_id)}, {IsNotNull(party_id), IsNotNull(transaction_id)},
PushedDownOperators(None,None,None,None,List(),List()), JDBCRDD[1668] at Spark Connect - session_id: "1b4f6863-c045-4bc4-8d01-46ee376b2f58"
user_context {
  user_id: "6106180720153940"
  user_name: "anton@forecasa...., JDBCRelation((SELECT distinct party_id, transaction_id FROM public.transaction_party_cross_party)
SPARK_GEN_SUBQ_4528) [numPartitions=1], Statistics(sizeInBytes=8.0 EiB, ColumnStat: N/A)
External engine query: SELECT "party_id","transaction_id" FROM (SELECT distinct party_id, transaction_id FROM
public.transaction_party_cross_party) SPARK_GEN_SUBQ_4528 WHERE ("party_id" IS NOT NULL) AND ("transaction_id" IS NOT NULL)

(823) PhotonRowToColumnar
Input [2]: [party_id#13724, transaction_id#13725]

(824) PhotonShuffleExchangeSink
Input [2]: [party_id#13724, transaction_id#13725]
Arguments: hashpartitioning(party_id#13724, 200)

(825) PhotonShuffleMapStage
Input [2]: [party_id#13724, transaction_id#13725]
Arguments: ENSURE_REQUIREMENTS, [id=#155829]

(826) ShuffleQueryStage
Output [2]: [party_id#13724, transaction_id#13725]
Arguments: 88, Statistics(sizeInBytes=8.0 EiB, ColumnStat: N/A)

(827) ShuffledHashJoin
Left keys [1]: [party_id#13715]
Right keys [1]: [party_id#13724]
Join type: Inner
Join condition: None

(828) Project
Output [6]: [party_id#13715, party_name#13714, company_id#13716, deleted_at#13717, updated_at#13718, transaction_id#13725]
Input [7]: [party_name#13714, party_id#13715, company_id#13716, deleted_at#13717, updated_at#13718, party_id#13724, transaction_id#13725]

(829) HashAggregate
Input [6]: [party_id#13715, party_name#13714, company_id#13716, deleted_at#13717, updated_at#13718, transaction_id#13725]
Keys [6]: [party_name#13714, party_id#13715, company_id#13716, deleted_at#13717, transaction_id#13725, updated_at#13718]
Functions: []
Aggregate Attributes: []
Results [6]: [party_name#13714, party_id#13715, company_id#13716, deleted_at#13717, transaction_id#13725, updated_at#13718]

(830) Exchange
Input [6]: [party_name#13714, party_id#13715, company_id#13716, deleted_at#13717, transaction_id#13725, updated_at#13718]
Arguments: hashpartitioning(transaction_id#13725, 200), ENSURE_REQUIREMENTS, [plan_id=155835]

(831) Scan JDBCRelation((
SELECT
  "County" as county,
  "Transaction_Type" as transaction_type,
  "FC_Transaction_Date" as fc_transaction_date,
  "FC_Recorded_Date" as fc_recorded_date,
  "FC_Cross_Party" as fc_cross_party,
  fcdateupdated,
  fctransactionid,
  "PDF_ID" as pdf_id
FROM public.transaction) SPARK_GEN_SUBQ_4536) [numPartitions=1] [codegen id : 90]
Output [7]: [county#13728, transaction_type#13729, fc_transaction_date#13730, fc_recorded_date#13731, fcdateupdated#13733,
fctransactionid#13734, pdf_id#13735]
Arguments: [county#13728, transaction_type#13729, fc_transaction_date#13730, fc_recorded_date#13731, fcdateupdated#13733,
fctransactionid#13734, pdf_id#13735], [StructField(county,StringType,true), StructField(transaction_type,StringType,true),
StructField(fc_transaction_date,StringType,true), StructField(fc_recorded_date,StringType,true),
StructField(fcdateupdated,TimestampType,true), StructField(fctransactionid,StringType,true), StructField(pdf_id,StringType,true)],
{EqualTo(transaction_type,MORTGAGE), IsNotNull(fctransactionid), IsNotNull(transaction_type)}, {EqualTo(transaction_type,MORTGAGE),
IsNotNull(fctransactionid), IsNotNull(transaction_type)}, PushedDownOperators(None,None,None,None,List(),List()), JDBCRDD[1669] at Spark
Connect - session_id: "1b4f6863-c045-4bc4-8d01-46ee376b2f58"
user_context {
  user_id: "6106180720153940"
  user_name: "anton@forecasa...., JDBCRelation((
SELECT
  "County" as county,
  "Transaction_Type" as transaction_type,
  "FC_Transaction_Date" as fc_transaction_date,
  "FC_Recorded_Date" as fc_recorded_date,
  "FC_Cross_Party" as fc_cross_party,
  fcdateupdated,
  fctransactionid,
  "PDF_ID" as pdf_id
FROM public.transaction) SPARK_GEN_SUBQ_4536) [numPartitions=1], Statistics(sizeInBytes=8.0 EiB, ColumnStat: N/A)
External engine query: SELECT
"county","transaction_type","fc_transaction_date","fc_recorded_date","fcdateupdated","fctransactionid","pdf_id" FROM (

```



```
SELECT
  "County" as county,
  "Transaction_Type" as transaction_type,
  "FC_Transaction_Date" as fc_transaction_date,
  "FC_Recorded_Date" as fc_recorded_date,
  "FC_Cross_Party" as fc_cross_party,
  fcdateupdated,
  fctransactionid,
  "PDF_ID" as pdf_id
FROM public.transaction) SPARK_GEN_SUBQ_4536 WHERE ("transaction_type" IS NOT NULL) AND ("fctransactionid" IS NOT NULL) AND
("transaction_type" = 'MORTGAGE')
```

(832) PhotonRowToColumnar

Input [7]: [county#13728, transaction_type#13729, fc_transaction_date#13730, fc_recorded_date#13731, fcdateupdated#13733, fctransactionid#13734, pdf_id#13735]

(833) PhotonShuffleExchangeSink

Input [7]: [county#13728, transaction_type#13729, fc_transaction_date#13730, fc_recorded_date#13731, fcdateupdated#13733, fctransactionid#13734, pdf_id#13735]

Arguments: hashpartitioning(fctransactionid#13734, 200)

(834) PhotonShuffleMapStage

Input [7]: [county#13728, transaction_type#13729, fc_transaction_date#13730, fc_recorded_date#13731, fcdateupdated#13733, fctransactionid#13734, pdf_id#13735]

Arguments: ENSURE_REQUIREMENTS, [id=#155843]

(835) ShuffleQueryStage

Output [7]: [county#13728, transaction_type#13729, fc_transaction_date#13730, fc_recorded_date#13731, fcdateupdated#13733, fctransactionid#13734, pdf_id#13735]

Arguments: 89, Statistics(sizeInBytes=8.0 EiB, ColumnStat: N/A)

(836) ShuffledHashJoin

Left keys [1]: [transaction_id#13725]

Right keys [1]: [fctransactionid#13734]

Join type: Inner

Join condition: None

(837) Project

Output [11]: [party_name#13714, party_id#13715, company_id#13716, deleted_at#13717, county#13728, transaction_type#13729, fc_transaction_date#13730, fc_recorded_date#13731, greatest(fcdateupdated#13733, updated_at#13718) AS fcdateupdated#13775, fctransactionid#13734, pdf_id#13735]

Input [13]: [party_name#13714, party_id#13715, company_id#13716, deleted_at#13717, transaction_id#13725, updated_at#13718, county#13728, transaction_type#13729, fc_transaction_date#13730, fc_recorded_date#13731, fcdateupdated#13733, fctransactionid#13734, pdf_id#13735]

(838) HashAggregate

Input [11]: [party_name#13714, party_id#13715, company_id#13716, deleted_at#13717, county#13728, transaction_type#13729, fc_transaction_date#13730, fc_recorded_date#13731, fcdateupdated#13775, fctransactionid#13734, pdf_id#13735]

Keys [11]: [party_name#13714, party_id#13715, company_id#13716, deleted_at#13717, county#13728, transaction_type#13729, fc_transaction_date#13730, fc_recorded_date#13731, fcdateupdated#13775, fctransactionid#13734, pdf_id#13735]

Functions: []

Aggregate Attributes: []

Results [11]: [party_name#13714, party_id#13715, company_id#13716, deleted_at#13717, county#13728, transaction_type#13729, fc_transaction_date#13730, fc_recorded_date#13731, fcdateupdated#13775, fctransactionid#13734, pdf_id#13735]

(839) Exchange

Input [11]: [party_name#13714, party_id#13715, company_id#13716, deleted_at#13717, county#13728, transaction_type#13729, fc_transaction_date#13730, fc_recorded_date#13731, fcdateupdated#13775, fctransactionid#13734, pdf_id#13735]

Arguments: hashpartitioning(party_id#13715, 200), ENSURE_REQUIREMENTS, [plan_id=155849]

(840) Scan JDBCRelation((SELECT distinct party_id, transaction_id FROM public.transaction_party_name) SPARK_GEN_SUBQ_4544)

[numPartitions=1] [codegen id : 91]

Output [2]: [party_id#13744, transaction_id#13745]

Arguments: [party_id#13744, transaction_id#13745], [StructField(party_id,IntegerType,true), StructField(transaction_id,StringType,true)], {IsNotNull(party_id), IsNotNull(transaction_id)}, {IsNotNull(party_id), IsNotNull(transaction_id)},

PushedDownOperators(None,None,None,None,List(),List()), JDBCRDD[1670] at Spark Connect - session_id: "1b4f6863-c045-4bc4-8d01-46ee376b2f58"

user_context {

user_id: "6106180720153940"

user_name: "anton@forecasa..., JDBCRelation((SELECT distinct party_id, transaction_id FROM public.transaction_party_name)

SPARK_GEN_SUBQ_4544) [numPartitions=1], Statistics(sizeInBytes=8.0 EiB, ColumnStat: N/A)

External engine query: SELECT "party_id","transaction_id" FROM (SELECT distinct party_id, transaction_id FROM

public.transaction_party_name) SPARK_GEN_SUBQ_4544 WHERE ("party_id" IS NOT NULL) AND ("transaction_id" IS NOT NULL)

(841) PhotonRowToColumnar

Input [2]: [party_id#13744, transaction_id#13745]

(842) PhotonShuffleExchangeSink

Input [2]: [party_id#13744, transaction_id#13745]

Arguments: hashpartitioning(transaction_id#13745, 200)

(843) PhotonShuffleMapStage

Input [2]: [party_id#13744, transaction_id#13745]

Arguments: ENSURE_REQUIREMENTS, [id=#155857]

(844) ShuffleQueryStage
Output [2]: [party_id#13744, transaction_id#13745]
Arguments: 90, Statistics(sizeInBytes=8.0 EiB, ColumnStat: N/A)

(845) Scan JDBCRelation((SELECT fc_transaction_id FROM publish.transactions WHERE fc_updated_at > '2000-04-16 12:00:00') SPARK_GEN_SUBQ_4552) [numPartitions=1] [codegen id : 92]
Output [1]: [fc_transaction_id#13748]
Arguments: [fc_transaction_id#13748], [StructField(fc_transaction_id,StringType,true)], {NotNull(fc_transaction_id)}, {NotNull(fc_transaction_id)}, PushedDownOperators(None,None,None,None,List(),List()), JDBCRDD[1671] at Spark Connect - session_id: "1b4f6863-c045-4bc4-8d01-46ee376b2f58"
user_context {
 user_id: "6106180720153940"
 user_name: "anton@forecasa...., JDBCRelation((SELECT fc_transaction_id FROM publish.transactions WHERE fc_updated_at > '2000-04-16 12:00:00') SPARK_GEN_SUBQ_4552) [numPartitions=1], Statistics(sizeInBytes=8.0 EiB, ColumnStat: N/A)
External engine query: SELECT "fc_transaction_id" FROM (SELECT fc_transaction_id FROM publish.transactions WHERE fc_updated_at > '2000-04-16 12:00:00') SPARK_GEN_SUBQ_4552 WHERE ("fc_transaction_id" IS NOT NULL)

(846) PhotonRowToColumnar
Input [1]: [fc_transaction_id#13748]

(847) PhotonShuffleExchangeSink
Input [1]: [fc_transaction_id#13748]
Arguments: hashpartitioning(fc_transaction_id#13748, 200)

(848) PhotonShuffleMapStage
Input [1]: [fc_transaction_id#13748]
Arguments: ENSURE_REQUIREMENTS, [id=#155867]

(849) ShuffleQueryStage
Output [1]: [fc_transaction_id#13748]
Arguments: 91, Statistics(sizeInBytes=8.0 EiB, ColumnStat: N/A)

(850) ShuffledHashJoin
Left keys [1]: [transaction_id#13745]
Right keys [1]: [fc_transaction_id#13748]
Join type: LeftSemi
Join condition: None

(851) Project
Output [1]: [party_id#13744]
Input [2]: [party_id#13744, transaction_id#13745]

(852) HashAggregate
Input [1]: [party_id#13744]
Keys [1]: [party_id#13744]
Functions: []
Aggregate Attributes: []
Results [1]: [party_id#13744]

(853) Exchange
Input [1]: [party_id#13744]
Arguments: hashpartitioning(party_id#13744, 200), ENSURE_REQUIREMENTS, [plan_id=155873]

(854) HashAggregate
Input [1]: [party_id#13744]
Keys [1]: [party_id#13744]
Functions: []
Aggregate Attributes: []
Results [1]: [party_id#13744]

(855) Scan JDBCRelation((SELECT distinct party_id, transaction_id FROM public.transaction_party_cross_party) SPARK_GEN_SUBQ_4560) [numPartitions=1] [codegen id : 93]
Output [2]: [party_id#13750, transaction_id#13751]
Arguments: [party_id#13750, transaction_id#13751], [StructField(party_id,IntegerType,true), StructField(transaction_id,StringType,true)], {NotNull(party_id), NotNull(transaction_id)}, {NotNull(party_id), NotNull(transaction_id)}, PushedDownOperators(None,None,None,None,List(),List()), JDBCRDD[1672] at Spark Connect - session_id: "1b4f6863-c045-4bc4-8d01-46ee376b2f58"
user_context {
 user_id: "6106180720153940"
 user_name: "anton@forecasa...., JDBCRelation((SELECT distinct party_id, transaction_id FROM public.transaction_party_cross_party) SPARK_GEN_SUBQ_4560) [numPartitions=1], Statistics(sizeInBytes=8.0 EiB, ColumnStat: N/A)
External engine query: SELECT "party_id","transaction_id" FROM (SELECT distinct party_id, transaction_id FROM public.transaction_party_cross_party) SPARK_GEN_SUBQ_4560 WHERE ("party_id" IS NOT NULL) AND ("transaction_id" IS NOT NULL)

(856) PhotonRowToColumnar
Input [2]: [party_id#13750, transaction_id#13751]

(857) PhotonShuffleExchangeSink
Input [2]: [party_id#13750, transaction_id#13751]
Arguments: hashpartitioning(transaction_id#13751, 200)

(858) PhotonShuffleMapStage

Input [2]: [party_id#13750, transaction_id#13751]
Arguments: ENSURE_REQUIREMENTS, [id=#155882]

(859) ShuffleQueryStage
Output [2]: [party_id#13750, transaction_id#13751]
Arguments: 92, Statistics(sizeInBytes=8.0 EiB, ColumnStat: N/A)

(860) Scan JDBCRelation((SELECT fc_transaction_id FROM publish.transactions WHERE fc_updated_at > '2000-04-16 12:00:00')
SPARK_GEN_SUBQ_4568) [numPartitions=1] [codegen id : 94]
Output [1]: [fc_transaction_id#13754]
Arguments: [fc_transaction_id#13754], [StructField(fc_transaction_id,StringType,true)], {IsNull(fc_transaction_id)},
{NotNull(fc_transaction_id)}, PushedDownOperators(None,None,None,None,List(),List()), JDBCRDD[1673] at Spark Connect - session_id:
"1b4f6863-c045-4bc4-8d01-46ee376b2f58"
user_context {
 user_id: "6106180720153940"
 user_name: "anton@forecasa...., JDBCRelation((SELECT fc_transaction_id FROM publish.transactions WHERE fc_updated_at > '2000-04-16
12:00:00') SPARK_GEN_SUBQ_4568) [numPartitions=1], Statistics(sizeInBytes=8.0 EiB, ColumnStat: N/A)
External engine query: SELECT "fc_transaction_id" FROM (SELECT fc_transaction_id FROM publish.transactions WHERE fc_updated_at > '2000-04-
16 12:00:00') SPARK_GEN_SUBQ_4568 WHERE ("fc_transaction_id" IS NOT NULL)

(861) PhotonRowToColumnar
Input [1]: [fc_transaction_id#13754]

(862) PhotonShuffleExchangeSink
Input [1]: [fc_transaction_id#13754]
Arguments: hashpartitioning(fc_transaction_id#13754, 200)

(863) PhotonShuffleMapStage
Input [1]: [fc_transaction_id#13754]
Arguments: ENSURE_REQUIREMENTS, [id=#155892]

(864) ShuffleQueryStage
Output [1]: [fc_transaction_id#13754]
Arguments: 93, Statistics(sizeInBytes=8.0 EiB, ColumnStat: N/A)

(865) ShuffledHashJoin
Left keys [1]: [transaction_id#13751]
Right keys [1]: [fc_transaction_id#13754]
Join type: LeftSemi
Join condition: None

(866) Project
Output [1]: [party_id#13750]
Input [2]: [party_id#13750, transaction_id#13751]

(867) HashAggregate
Input [1]: [party_id#13750]
Keys [1]: [party_id#13750]
Functions: []
Aggregate Attributes: []
Results [1]: [party_id#13750]

(868) Exchange
Input [1]: [party_id#13750]
Arguments: hashpartitioning(party_id#13750, 200), ENSURE_REQUIREMENTS, [plan_id=155898]

(869) HashAggregate
Input [1]: [party_id#13750]
Keys [1]: [party_id#13750]
Functions: []
Aggregate Attributes: []
Results [1]: [party_id#13750]

(870) Union

(871) HashAggregate
Input [1]: [party_id#13744]
Keys [1]: [party_id#13744]
Functions: []
Aggregate Attributes: []
Results [1]: [party_id#13744]

(872) Exchange
Input [1]: [party_id#13744]
Arguments: hashpartitioning(party_id#13744, 200), ENSURE_REQUIREMENTS, [plan_id=155902]

(873) ShuffledHashJoin
Left keys [1]: [party_id#13715]
Right keys [1]: [party_id#13744]
Join type: LeftSemi
Join condition: None

(874) HashAggregate

Input [11]: [party_name#13714, party_id#13715, company_id#13716, deleted_at#13717, county#13728, transaction_type#13729, fc_transaction_date#13730, fc_recorded_date#13731, fcdateupdated#13775, fctransactionid#13734, pdf_id#13735]
Keys [11]: [party_name#13714, party_id#13715, company_id#13716, deleted_at#13717, county#13728, transaction_type#13729, fc_transaction_date#13730, fc_recorded_date#13731, fcdateupdated#13775, fctransactionid#13734, pdf_id#13735]
Functions: []
Aggregate Attributes: []
Results [11]: [party_name#13714, party_id#13715, company_id#13716, deleted_at#13717, county#13728, transaction_type#13729, fc_transaction_date#13730, fc_recorded_date#13731, fcdateupdated#13775, fctransactionid#13734, pdf_id#13735]

(875) Exchange

Input [11]: [party_name#13714, party_id#13715, company_id#13716, deleted_at#13717, county#13728, transaction_type#13729, fc_transaction_date#13730, fc_recorded_date#13731, fcdateupdated#13775, fctransactionid#13734, pdf_id#13735]
Arguments: hashpartitioning(pdf_id#13735, 200), ENSURE_REQUIREMENTS, [plan_id=155905]

(876) Scan JDBCRelation((SELECT pdf_id FROM public.pdf_record) SPARK_GEN_SUBQ_4576) [numPartitions=1] [codegen id : 95]

Output [1]: [pdf_id#13756]

Arguments: [pdf_id#13756], [StructField(pdf_id,StringType,true)], {IsNotNull(pdf_id)}, {IsNotNull(pdf_id)},
PushedDownOperators(None,None,None,None,List(),List()), JDBCRDD[1674] at Spark Connect - session_id: "1b4f6863-c045-4bc4-8d01-46ee376b2f58"
user_context {
 user_id: "6106180720153940"
 user_name: "anton@forecasa...., JDBCRelation((SELECT pdf_id FROM public.pdf_record) SPARK_GEN_SUBQ_4576) [numPartitions=1],
Statistics(sizeInBytes=8.0 EiB, ColumnStat: N/A)
External engine query: SELECT "pdf_id" FROM (SELECT pdf_id FROM public.pdf_record) SPARK_GEN_SUBQ_4576 WHERE ("pdf_id" IS NOT NULL)

(877) PhotonRowToColumnar

Input [1]: [pdf_id#13756]

(878) PhotonShuffleExchangeSink

Input [1]: [pdf_id#13756]

Arguments: hashpartitioning(pdf_id#13756, 200)

(879) PhotonShuffleMapStage

Input [1]: [pdf_id#13756]

Arguments: ENSURE_REQUIREMENTS, [id=#155913]

(880) ShuffleQueryStage

Output [1]: [pdf_id#13756]

Arguments: 94, Statistics(sizeInBytes=8.0 EiB, ColumnStat: N/A)

(881) ShuffledHashJoin

Left keys [1]: [pdf_id#13735]

Right keys [1]: [pdf_id#13756]

Join type: LeftOuter

Join condition: None

(882) Project

Output [11]: [party_name#13714, party_id#13715, company_id#13716, deleted_at#13717, county#13728, transaction_type#13729, fc_transaction_date#13730, fc_recorded_date#13731, fcdateupdated#13775, fctransactionid#13734, ((isnotnull(pdf_id#13756) AND (transaction_type#13729 = MORTGAGE)) <=> true) AS has_pdf#13809]

Input [12]: [party_name#13714, party_id#13715, company_id#13716, deleted_at#13717, county#13728, transaction_type#13729, fc_transaction_date#13730, fc_recorded_date#13731, fcdateupdated#13775, fctransactionid#13734, pdf_id#13735, pdf_id#13756]

(883) HashAggregate

Input [11]: [party_name#13714, party_id#13715, company_id#13716, deleted_at#13717, county#13728, transaction_type#13729, fc_transaction_date#13730, fc_recorded_date#13731, fcdateupdated#13775, fctransactionid#13734, has_pdf#13809]

Keys [11]: [party_name#13714, party_id#13715, company_id#13716, deleted_at#13717, county#13728, transaction_type#13729, fc_transaction_date#13730, fc_recorded_date#13731, fcdateupdated#13775, fctransactionid#13734, has_pdf#13809]

Functions: []

Aggregate Attributes: []

Results [11]: [party_name#13714, party_id#13715, company_id#13716, deleted_at#13717, county#13728, transaction_type#13729, fc_transaction_date#13730, fc_recorded_date#13731, fcdateupdated#13775, fctransactionid#13734, has_pdf#13809]

(884) Exchange

Input [11]: [party_name#13714, party_id#13715, company_id#13716, deleted_at#13717, county#13728, transaction_type#13729, fc_transaction_date#13730, fc_recorded_date#13731, fcdateupdated#13775, fctransactionid#13734, has_pdf#13809]

Arguments: hashpartitioning(party_name#13714, party_id#13715, company_id#13716, deleted_at#13717, county#13728, transaction_type#13729, fc_transaction_date#13730, fc_recorded_date#13731, fcdateupdated#13775, fctransactionid#13734, has_pdf#13809, 200), ENSURE_REQUIREMENTS, [plan_id=155919]

(885) HashAggregate

Input [11]: [party_name#13714, party_id#13715, company_id#13716, deleted_at#13717, county#13728, transaction_type#13729, fc_transaction_date#13730, fc_recorded_date#13731, fcdateupdated#13775, fctransactionid#13734, has_pdf#13809]

Keys [11]: [party_name#13714, party_id#13715, company_id#13716, deleted_at#13717, county#13728, transaction_type#13729, fc_transaction_date#13730, fc_recorded_date#13731, fcdateupdated#13775, fctransactionid#13734, has_pdf#13809]

Functions: []

Aggregate Attributes: []

Results [11]: [party_name#13714, party_id#13715, company_id#13716, deleted_at#13717, county#13728, transaction_type#13729, fc_transaction_date#13730, fc_recorded_date#13731, fcdateupdated#13775, fctransactionid#13734, has_pdf#13809]

(886) Union

(887) HashAggregate

Input [11]: [party_name#13605, party_id#13606, company_id#13607, deleted_at#13608, county#13619, transaction_type#13620, fc_transaction_date#13621, fc_recorded_date#13622, fcdateupdated#13665, fctransactionid#13625, has_pdf#13697]
Keys [11]: [party_name#13605, party_id#13606, company_id#13607, deleted_at#13608, county#13619, transaction_type#13620, fc_transaction_date#13621, fc_recorded_date#13622, fcdateupdated#13665, fctransactionid#13625, has_pdf#13697]
Functions: []
Aggregate Attributes: []
Results [11]: [party_name#13605, party_id#13606, company_id#13607, deleted_at#13608, county#13619, transaction_type#13620, fc_transaction_date#13621, fc_recorded_date#13622, fcdateupdated#13665, fctransactionid#13625, has_pdf#13697]

(888) Exchange

Input [11]: [party_name#13605, party_id#13606, company_id#13607, deleted_at#13608, county#13619, transaction_type#13620, fc_transaction_date#13621, fc_recorded_date#13622, fcdateupdated#13665, fctransactionid#13625, has_pdf#13697]
Arguments: hashpartitioning(party_name#13605, party_id#13606, company_id#13607, deleted_at#13608, county#13619, transaction_type#13620, fc_transaction_date#13621, fc_recorded_date#13622, fcdateupdated#13665, fctransactionid#13625, has_pdf#13697, 200), ENSURE_REQUIREMENTS, [plan_id=155923]

(889) HashAggregate

Input [11]: [party_name#13605, party_id#13606, company_id#13607, deleted_at#13608, county#13619, transaction_type#13620, fc_transaction_date#13621, fc_recorded_date#13622, fcdateupdated#13665, fctransactionid#13625, has_pdf#13697]
Keys [11]: [party_name#13605, party_id#13606, company_id#13607, deleted_at#13608, county#13619, transaction_type#13620, fc_transaction_date#13621, fc_recorded_date#13622, fcdateupdated#13665, fctransactionid#13625, has_pdf#13697]
Functions: []
Aggregate Attributes: []
Results [4]: [party_id#13606, fc_transaction_date#13621, fc_recorded_date#13622, fctransactionid#13625]

(890) Exchange

Input [4]: [party_id#13606, fc_transaction_date#13621, fc_recorded_date#13622, fctransactionid#13625]
Arguments: hashpartitioning(party_id#13606, 200), ENSURE_REQUIREMENTS, [plan_id=155925]

(891) Sort

Input [4]: [party_id#13606, fc_transaction_date#13621, fc_recorded_date#13622, fctransactionid#13625]
Arguments: [party_id#13606 ASC NULLS FIRST, fc_recorded_date#13622 DESC NULLS LAST, fc_transaction_date#13621 DESC NULLS LAST], false, 0

(892) RunningWindowFunction

Input [4]: [party_id#13606, fc_transaction_date#13621, fc_recorded_date#13622, fctransactionid#13625]
Arguments: [party_id#13606, fc_recorded_date#13622, fctransactionid#13625, row_number() window specification (party_id#13606, fc_recorded_date#13622 DESC NULLS LAST, fc_transaction_date#13621 DESC NULLS LAST, specified window frame (RowFrame, unbounded preceding \$(), current row \$())) AS rn#13839], [party_id#13606], [fc_recorded_date#13622 DESC NULLS LAST, fc_transaction_date#13621 DESC NULLS LAST], false

(893) Filter

Input [4]: [party_id#13606, fc_recorded_date#13622, fctransactionid#13625, rn#13839]
Condition : (rn#13839 > 1)

(894) Project

Output [3]: [party_id#13606, fc_recorded_date#13622, fctransactionid#13625]
Input [4]: [party_id#13606, fc_recorded_date#13622, fctransactionid#13625, rn#13839]

(895) Exchange

Input [3]: [party_id#13606, fc_recorded_date#13622, fctransactionid#13625]
Arguments: hashpartitioning(fctransactionid#13625, 200), ENSURE_REQUIREMENTS, [plan_id=155930]

(896) Scan JDBCRelation((

```
SELECT
  "County" as county,
  "Transaction_Type" as transaction_type,
  "FC_Transaction_Date" as fc_transaction_date,
  "FC_Recorded_Date" as fc_recorded_date,
  "FC_Cross_Party" as fc_cross_party,
  fcdateupdated,
  fctransactionid,
  "PDF_ID" as pdf_id
FROM public.transaction) SPARK_GEN_SUBQ_4584) [numPartitions=1] [codegen id : 96]
Output [2]: [fc_cross_party#13857, fctransactionid#13859]
Arguments: [fc_cross_party#13857, fctransactionid#13859], [StructField(fc_cross_party,StringType,true),
StructField(fctransactionid,StringType,true)], {NotNull(fctransactionid)}, {NotNull(fctransactionid)},
PushedDownOperators(None,None,None,None,List(),List()), JDBCRDD[1675] at Spark Connect - session_id: "1b4f6863-c045-4bc4-8d01-46ee376b2f58"
user_context {
  user_id: "6106180720153940"
  user_name: "anton@forecasa...., JDBCRelation((
SELECT
  "County" as county,
  "Transaction_Type" as transaction_type,
  "FC_Transaction_Date" as fc_transaction_date,
  "FC_Recorded_Date" as fc_recorded_date,
  "FC_Cross_Party" as fc_cross_party,
  fcdateupdated,
  fctransactionid,
  "PDF_ID" as pdf_id
FROM public.transaction) SPARK_GEN_SUBQ_4584) [numPartitions=1], Statistics(sizeInBytes=8.0 EiB, ColumnStat: N/A)
External engine query: SELECT "fc_cross_party","fctransactionid" FROM (
SELECT
  "County" as county,
```

```
"Transaction_Type" as transaction_type,  
"FC_Transaction_Date" as fc_transaction_date,  
"FC_Recorded_Date" as fc_recorded_date,  
"FC_Cross_Party" as fc_cross_party,  
fcdateupdated,  
fctransactionid,  
"PDF_ID" as pdf_id  
FROM public.transaction) SPARK_GEN_SUBQ_4584 WHERE ("fctransactionid" IS NOT NULL)
```

```
(897) PhotonRowToColumnar  
Input [2]: [fc_cross_party#13857, fctransactionid#13859]
```

```
(898) PhotonShuffleExchangeSink  
Input [2]: [fc_cross_party#13857, fctransactionid#13859]  
Arguments: hashpartitioning(fctransactionid#13859, 200)
```

```
(899) PhotonShuffleMapStage  
Input [2]: [fc_cross_party#13857, fctransactionid#13859]  
Arguments: ENSURE_REQUIREMENTS, [id=#155938]
```

```
(900) ShuffleQueryStage  
Output [2]: [fc_cross_party#13857, fctransactionid#13859]  
Arguments: 95, Statistics(sizeInBytes=8.0 EiB, ColumnStat: N/A)
```

```
(901) ShuffledHashJoin  
Left keys [1]: [fctransactionid#13625]  
Right keys [1]: [fctransactionid#13859]  
Join type: Inner  
Join condition: None
```

```
(902) Project  
Output [3]: [party_id#13606, fc_recorded_date#13622, fc_cross_party#13857]  
Input [5]: [party_id#13606, fc_recorded_date#13622, fctransactionid#13625, fc_cross_party#13857, fctransactionid#13859]
```

```
(903) Sort  
Input [3]: [party_id#13606, fc_recorded_date#13622, fc_cross_party#13857]  
Arguments: [party_id#13606 ASC NULLS FIRST, fc_cross_party#13857 ASC NULLS FIRST], false, 0
```

```
(904) SortAggregate  
Input [3]: [party_id#13606, fc_recorded_date#13622, fc_cross_party#13857]  
Keys [2]: [party_id#13606, fc_cross_party#13857]  
Functions [1]: [partial_max(fc_recorded_date#13622) AS max#14259]  
Aggregate Attributes [1]: [max#14258]  
Results [3]: [party_id#13606, fc_cross_party#13857, max#14259]
```

```
(905) Exchange  
Input [3]: [party_id#13606, fc_cross_party#13857, max#14259]  
Arguments: hashpartitioning(party_id#13606, fc_cross_party#13857, 200), ENSURE_REQUIREMENTS, [plan_id=155945]
```

```
(906) Sort  
Input [3]: [party_id#13606, fc_cross_party#13857, max#14259]  
Arguments: [party_id#13606 ASC NULLS FIRST, fc_cross_party#13857 ASC NULLS FIRST], false, 0
```

```
(907) SortAggregate  
Input [3]: [party_id#13606, fc_cross_party#13857, max#14259]  
Keys [2]: [party_id#13606, fc_cross_party#13857]  
Functions [1]: [finalmerge_max(merge max#14259) AS max(fc_recorded_date#13622)#13870]  
Aggregate Attributes [1]: [max(fc_recorded_date#13622)#13870]  
Results [3]: [party_id#13606, fc_cross_party#13857, max(fc_recorded_date#13622)#13870 AS fc_recorded_date#13869]
```

```
(908) Exchange  
Input [3]: [party_id#13606, fc_cross_party#13857, fc_recorded_date#13869]  
Arguments: hashpartitioning(party_id#13606, 200), ENSURE_REQUIREMENTS, [plan_id=155948]
```

```
(909) Sort  
Input [3]: [party_id#13606, fc_cross_party#13857, fc_recorded_date#13869]  
Arguments: [party_id#13606 ASC NULLS FIRST, fc_recorded_date#13869 DESC NULLS LAST], false, 0
```

```
(910) Window  
Input [3]: [party_id#13606, fc_cross_party#13857, fc_recorded_date#13869]  
Arguments: [party_id#13606, collect_list(fc_cross_party#13857, 0, 0) windowSpecification(party_id#13606, fc_recorded_date#13869 DESC NULLS LAST, specifiedwindowframe(RangeFrame, unboundedpreceding$(), currentrow$())) AS ordered_concat#13875], [party_id#13606], [fc_recorded_date#13869 DESC NULLS LAST]
```

```
(911) HashAggregate  
Input [2]: [party_id#13606, ordered_concat#13875]  
Keys [2]: [party_id#13606, ordered_concat#13875]  
Functions: []  
Aggregate Attributes: []  
Results [2]: [party_id#13606, ordered_concat#13875]
```

```
(912) Project  
Output [2]: [party_id#13606, ordered_concat#13875]
```


Input [2]: [party_id#13606, ordered_concat#13875]

(913) ObjectHashAggregate

Input [2]: [party_id#13606, ordered_concat#13875]

Keys [1]: [party_id#13606]

Functions [1]: [collect_list(ordered_concat#13875, 0, 0)]

Aggregate Attributes [1]: [collect_list(ordered_concat#13875, 0, 0)#13882]

Results [2]: [party_id#13606, substring(concat_ws(, flatten(collect_list(ordered_concat#13875, 0, 0)#13882)), 1, 500) AS recent_lenders#13886]

(914) ShuffledHashJoin

Left keys [1]: [party_id#12418]

Right keys [1]: [party_id#13606]

Join type: LeftOuter

Join condition: None

(915) Project

Output [24]: [party_name#12417, party_id#12418, company_id#12419, deleted_at#12648, has_pdf#12649, Mortgage Transactions#12650L, Deed Transactions#12651L, Satisfaction of Mortgage Transactions#12652L, Assignment of Mortgage Transactions#12653L, lis_pendens_transactions#12654L, judgment_transactions#12655L, loan_modification_transactions#12656L, Most Recent Transaction#12879, fcdateupdated#12880, Last Purchase Date#12994, Last Sale Date#13104, Transactions as Seller#13217L, Transactions as Borrower#13218L, Transactions as Buyer#13336L, Transactions as Lender#13337L, Last Lender Used#13602, Last_Mortgage_Date#13603, last_county#13604, recent_lenders#13886]

Input [25]: [party_name#12417, party_id#12418, company_id#12419, deleted_at#12648, has_pdf#12649, Mortgage Transactions#12650L, Deed Transactions#12651L, Satisfaction of Mortgage Transactions#12652L, Assignment of Mortgage Transactions#12653L, lis_pendens_transactions#12654L, judgment_transactions#12655L, loan_modification_transactions#12656L, Most Recent Transaction#12879, fcdateupdated#12880, Last Purchase Date#12994, Last Sale Date#13104, Transactions as Seller#13217L, Transactions as Borrower#13218L, Transactions as Buyer#13336L, Transactions as Lender#13337L, Last Lender Used#13602, Last_Mortgage_Date#13603, last_county#13604, party_id#13606, recent_lenders#13886]

(916) LocalLimit

Input [24]: [party_name#12417, party_id#12418, company_id#12419, deleted_at#12648, has_pdf#12649, Mortgage Transactions#12650L, Deed Transactions#12651L, Satisfaction of Mortgage Transactions#12652L, Assignment of Mortgage Transactions#12653L, lis_pendens_transactions#12654L, judgment_transactions#12655L, loan_modification_transactions#12656L, Most Recent Transaction#12879, fcdateupdated#12880, Last Purchase Date#12994, Last Sale Date#13104, Transactions as Seller#13217L, Transactions as Borrower#13218L, Transactions as Buyer#13336L, Transactions as Lender#13337L, Last Lender Used#13602, Last_Mortgage_Date#13603, last_county#13604, recent_lenders#13886]

Arguments: 21

(917) Scan JDBCRelation((SELECT party_name, party_id, company_id, deleted_at, updated_at FROM public.party) SPARK_GEN_SUBQ_3552)

[numPartitions=1] [codegen id : 97]

Output [5]: [party_name#11868, party_id#11869, company_id#11870, deleted_at#11871, updated_at#11872]

Arguments: [party_name#11868, party_id#11869, company_id#11870, deleted_at#11871, updated_at#11872], [StructField(party_name,StringType,true), StructField(party_id,IntegerType,true), StructField(company_id,IntegerType,true), StructField(deleted_at,TimestampType,true), StructField(updated_at,TimestampType,true)], {NotNull(party_id)}, {NotNull(party_id)}, PushedDownOperators(None,None,None,None,List(),List()), JDBCRDD[1676] at Spark Connect - session_id: "1b4f6863-c045-4bc4-8d01-46ee376b2f58"

user_context {

user_id: "6106180720153940"

user_name: "anton@forecasa...., JDBCRelation((SELECT party_name, party_id, company_id, deleted_at, updated_at FROM public.party)

SPARK_GEN_SUBQ_3552) [numPartitions=1], Statistics(sizeInBytes=8.0 EiB, ColumnStat: N/A)

External engine query: SELECT "party_name","party_id","company_id","deleted_at","updated_at" FROM (SELECT party_name, party_id, company_id, deleted_at, updated_at FROM public.party) SPARK_GEN_SUBQ_3552 WHERE ("party_id" IS NOT NULL)

(918) PhotonRowToColumnar

Input [5]: [party_name#11868, party_id#11869, company_id#11870, deleted_at#11871, updated_at#11872]

(919) PhotonShuffleExchangeSink

Input [5]: [party_name#11868, party_id#11869, company_id#11870, deleted_at#11871, updated_at#11872]

Arguments: hashpartitioning(party_id#11869, 200)

(920) PhotonShuffleMapStage

Input [5]: [party_name#11868, party_id#11869, company_id#11870, deleted_at#11871, updated_at#11872]

Arguments: ENSURE_REQUIREMENTS, [id=#155964]

(921) ShuffleQueryStage

Output [5]: [party_name#11868, party_id#11869, company_id#11870, deleted_at#11871, updated_at#11872]

Arguments: 96, Statistics(sizeInBytes=8.0 EiB, ColumnStat: N/A)

(922) Scan JDBCRelation((SELECT distinct party_id, transaction_id FROM public.transaction_party_name) SPARK_GEN_SUBQ_3560)

[numPartitions=1] [codegen id : 98]

Output [2]: [party_id#11878, transaction_id#11879]

Arguments: [party_id#11878, transaction_id#11879], [StructField(party_id,IntegerType,true), StructField(transaction_id,StringType,true)], {NotNull(party_id), NotNull(transaction_id)}, {NotNull(party_id), NotNull(transaction_id)}, PushedDownOperators(None,None,None,None,List(),List()), JDBCRDD[1677] at Spark Connect - session_id: "1b4f6863-c045-4bc4-8d01-46ee376b2f58"

user_context {

user_id: "6106180720153940"

user_name: "anton@forecasa...., JDBCRelation((SELECT distinct party_id, transaction_id FROM public.transaction_party_name)

SPARK_GEN_SUBQ_3560) [numPartitions=1], Statistics(sizeInBytes=8.0 EiB, ColumnStat: N/A)

External engine query: SELECT "party_id","transaction_id" FROM (SELECT distinct party_id, transaction_id FROM public.transaction_party_name) SPARK_GEN_SUBQ_3560 WHERE ("party_id" IS NOT NULL) AND ("transaction_id" IS NOT NULL)

```

(923) PhotonRowToColumnar
Input [2]: [party_id#11878, transaction_id#11879]

(924) PhotonShuffleExchangeSink
Input [2]: [party_id#11878, transaction_id#11879]
Arguments: hashpartitioning(party_id#11878, 200)

(925) PhotonShuffleMapStage
Input [2]: [party_id#11878, transaction_id#11879]
Arguments: ENSURE_REQUIREMENTS, [id=#155974]

(926) ShuffleQueryStage
Output [2]: [party_id#11878, transaction_id#11879]
Arguments: 97, Statistics(sizeInBytes=8.0 EiB, ColumnStat: N/A)

(927) ShuffledHashJoin
Left keys [1]: [party_id#11869]
Right keys [1]: [party_id#11878]
Join type: Inner
Join condition: None

(928) Project
Output [6]: [party_id#11869, party_name#11868, company_id#11870, deleted_at#11871, updated_at#11872, transaction_id#11879]
Input [7]: [party_name#11868, party_id#11869, company_id#11870, deleted_at#11871, updated_at#11872, party_id#11878, transaction_id#11879]

(929) HashAggregate
Input [6]: [party_id#11869, party_name#11868, company_id#11870, deleted_at#11871, updated_at#11872, transaction_id#11879]
Keys [6]: [party_name#11868, party_id#11869, company_id#11870, deleted_at#11871, transaction_id#11879, updated_at#11872]
Functions: []
Aggregate Attributes: []
Results [6]: [party_name#11868, party_id#11869, company_id#11870, deleted_at#11871, transaction_id#11879, updated_at#11872]

(930) Exchange
Input [6]: [party_name#11868, party_id#11869, company_id#11870, deleted_at#11871, transaction_id#11879, updated_at#11872]
Arguments: hashpartitioning(transaction_id#11879, 200), ENSURE_REQUIREMENTS, [plan_id=155980]

(931) Scan JDBCRelation((
SELECT
  "County" as county,
  "Transaction_Type" as transaction_type,
  "FC_Transaction_Date" as fc_transaction_date,
  "FC_Recorded_Date" as fc_recorded_date,
  "FC_Cross_Party" as fc_cross_party,
  fcdateupdated,
  fctransactionid,
  "PDF_ID" as pdf_id
FROM public.transaction) SPARK_GEN_SUBQ_3568) [numPartitions=1] [codegen id : 99]
Output [7]: [county#11882, transaction_type#11883, fc_transaction_date#11884, fc_recorded_date#11885, fcdateupdated#11887,
fctransactionid#11888, pdf_id#11889]
Arguments: [county#11882, transaction_type#11883, fc_transaction_date#11884, fc_recorded_date#11885, fcdateupdated#11887,
fctransactionid#11888, pdf_id#11889], [StructField(county,StringType,true), StructField(transaction_type,StringType,true),
StructField(fc_transaction_date,StringType,true), StructField(fc_recorded_date,StringType,true),
StructField(fcdateupdated,TimestampType,true), StructField(fctransactionid,StringType,true), StructField(pdf_id,StringType,true)],
{EqualTo(transaction_type,MORTGAGE), IsNotNull(fctransactionid), IsNotNull(transaction_type)}, {EqualTo(transaction_type,MORTGAGE),
IsNotNull(fctransactionid), IsNotNull(transaction_type)}, PushedDownOperators(None,None,None,None,List(),List()), JDBCRDD[1678] at Spark
Connect - session_id: "1b4f6863-c045-4bc4-8d01-46ee376b2f58"
user_context {
  user_id: "6106180720153940"
  user_name: "anton@forecasa...., JDBCRelation((
SELECT
  "County" as county,
  "Transaction_Type" as transaction_type,
  "FC_Transaction_Date" as fc_transaction_date,
  "FC_Recorded_Date" as fc_recorded_date,
  "FC_Cross_Party" as fc_cross_party,
  fcdateupdated,
  fctransactionid,
  "PDF_ID" as pdf_id
FROM public.transaction) SPARK_GEN_SUBQ_3568) [numPartitions=1], Statistics(sizeInBytes=8.0 EiB, ColumnStat: N/A)
External engine query: SELECT
"county","transaction_type","fc_transaction_date","fc_recorded_date","fcdateupdated","fctransactionid","pdf_id" FROM (
SELECT
  "County" as county,
  "Transaction_Type" as transaction_type,
  "FC_Transaction_Date" as fc_transaction_date,
  "FC_Recorded_Date" as fc_recorded_date,
  "FC_Cross_Party" as fc_cross_party,
  fcdateupdated,
  fctransactionid,
  "PDF_ID" as pdf_id
FROM public.transaction) SPARK_GEN_SUBQ_3568 WHERE ("transaction_type" IS NOT NULL) AND ("fctransactionid" IS NOT NULL) AND
("transaction_type" = 'MORTGAGE')

```



```
(932) PhotonRowToColumnar
Input [7]: [county#11882, transaction_type#11883, fc_transaction_date#11884, fc_recorded_date#11885, fcdateupdated#11887,
fctransactionid#11888, pdf_id#11889]

(933) PhotonShuffleExchangeSink
Input [7]: [county#11882, transaction_type#11883, fc_transaction_date#11884, fc_recorded_date#11885, fcdateupdated#11887,
fctransactionid#11888, pdf_id#11889]
Arguments: hashpartitioning(fctransactionid#11888, 200)

(934) PhotonShuffleMapStage
Input [7]: [county#11882, transaction_type#11883, fc_transaction_date#11884, fc_recorded_date#11885, fcdateupdated#11887,
fctransactionid#11888, pdf_id#11889]
Arguments: ENSURE_REQUIREMENTS, [id=#155988]

(935) ShuffleQueryStage
Output [7]: [county#11882, transaction_type#11883, fc_transaction_date#11884, fc_recorded_date#11885, fcdateupdated#11887,
fctransactionid#11888, pdf_id#11889]
Arguments: 98, Statistics(sizeInBytes=8.0 EiB, ColumnStat: N/A)

(936) ShuffledHashJoin
Left keys [1]: [transaction_id#11879]
Right keys [1]: [fctransactionid#11888]
Join type: Inner
Join condition: None

(937) Project
Output [11]: [party_name#11868, party_id#11869, company_id#11870, deleted_at#11871, county#11882, transaction_type#11883,
fc_transaction_date#11884, fc_recorded_date#11885, greatest(fcdateupdated#11887, updated_at#11872) AS fcdateupdated#11928,
fctransactionid#11888, pdf_id#11889]
Input [13]: [party_name#11868, party_id#11869, company_id#11870, deleted_at#11871, transaction_id#11879, updated_at#11872, county#11882,
transaction_type#11883, fc_transaction_date#11884, fc_recorded_date#11885, fcdateupdated#11887, fctransactionid#11888, pdf_id#11889]

(938) HashAggregate
Input [11]: [party_name#11868, party_id#11869, company_id#11870, deleted_at#11871, county#11882, transaction_type#11883,
fc_transaction_date#11884, fc_recorded_date#11885, fcdateupdated#11928, fctransactionid#11888, pdf_id#11889]
Keys [11]: [party_name#11868, party_id#11869, company_id#11870, deleted_at#11871, county#11882, transaction_type#11883,
fc_transaction_date#11884, fc_recorded_date#11885, fcdateupdated#11928, fctransactionid#11888, pdf_id#11889]
Functions: []
Aggregate Attributes: []
Results [11]: [party_name#11868, party_id#11869, company_id#11870, deleted_at#11871, county#11882, transaction_type#11883,
fc_transaction_date#11884, fc_recorded_date#11885, fcdateupdated#11928, fctransactionid#11888, pdf_id#11889]

(939) Exchange
Input [11]: [party_name#11868, party_id#11869, company_id#11870, deleted_at#11871, county#11882, transaction_type#11883,
fc_transaction_date#11884, fc_recorded_date#11885, fcdateupdated#11928, fctransactionid#11888, pdf_id#11889]
Arguments: hashpartitioning(party_id#11869, 200), ENSURE_REQUIREMENTS, [plan_id=155994]

(940) Scan JDBCRelation((SELECT distinct party_id, transaction_id FROM public.transaction_party_name) SPARK_GEN_SUBQ_3576)
[numPartitions=1] [codegen id : 100]
Output [2]: [party_id#11898, transaction_id#11899]
Arguments: [party_id#11898, transaction_id#11899], [StructField(party_id,IntegerType,true), StructField(transaction_id,StringType,true)],
{NotNull(party_id), NotNull(transaction_id)}, {NotNull(party_id), NotNull(transaction_id)},
PushedDownOperators(None,None,None,None,List(),List()), JDBCRDD[1679] at Spark Connect - session_id: "1b4f6863-c045-4bc4-8d01-
46ee376b2f58"
user_context {
  user_id: "6106180720153940"
  user_name: "anton@forecasa...., JDBCRelation((SELECT distinct party_id, transaction_id FROM public.transaction_party_name)
SPARK_GEN_SUBQ_3576) [numPartitions=1], Statistics(sizeInBytes=8.0 EiB, ColumnStat: N/A)
External engine query: SELECT "party_id","transaction_id" FROM (SELECT distinct party_id, transaction_id FROM
public.transaction_party_name) SPARK_GEN_SUBQ_3576 WHERE ("party_id" IS NOT NULL) AND ("transaction_id" IS NOT NULL)

(941) PhotonRowToColumnar
Input [2]: [party_id#11898, transaction_id#11899]

(942) PhotonShuffleExchangeSink
Input [2]: [party_id#11898, transaction_id#11899]
Arguments: hashpartitioning(transaction_id#11899, 200)

(943) PhotonShuffleMapStage
Input [2]: [party_id#11898, transaction_id#11899]
Arguments: ENSURE_REQUIREMENTS, [id=#156002]

(944) ShuffleQueryStage
Output [2]: [party_id#11898, transaction_id#11899]
Arguments: 99, Statistics(sizeInBytes=8.0 EiB, ColumnStat: N/A)

(945) Scan JDBCRelation((SELECT fc_transaction_id FROM publish.transactions WHERE fc_updated_at > '2000-04-16 12:00:00')
SPARK_GEN_SUBQ_3584) [numPartitions=1] [codegen id : 101]
Output [1]: [fc_transaction_id#11902]
Arguments: [fc_transaction_id#11902], [StructField(fc_transaction_id,StringType,true)], {NotNull(fc_transaction_id)},
{NotNull(fc_transaction_id)}, PushedDownOperators(None,None,None,None,List(),List()), JDBCRDD[1680] at Spark Connect - session_id:
"1b4f6863-c045-4bc4-8d01-46ee376b2f58"
user_context {
```

```
user_id: "6106180720153940"
user_name: "anton@forecasa..., JDBCRelation((SELECT fc_transaction_id FROM publish.transactions WHERE fc_updated_at > '2000-04-16
12:00:00') SPARK_GEN_SUBQ_3584) [numPartitions=1], Statistics(sizeInBytes=8.0 EiB, ColumnStat: N/A)
External engine query: SELECT "fc_transaction_id" FROM (SELECT fc_transaction_id FROM publish.transactions WHERE fc_updated_at > '2000-04-
16 12:00:00') SPARK_GEN_SUBQ_3584 WHERE ("fc_transaction_id" IS NOT NULL)

(946) PhotonRowToColumnar
Input [1]: [fc_transaction_id#11902]

(947) PhotonShuffleExchangeSink
Input [1]: [fc_transaction_id#11902]
Arguments: hashpartitioning(fc_transaction_id#11902, 200)

(948) PhotonShuffleMapStage
Input [1]: [fc_transaction_id#11902]
Arguments: ENSURE_REQUIREMENTS, [id=#156012]

(949) ShuffleQueryStage
Output [1]: [fc_transaction_id#11902]
Arguments: 100, Statistics(sizeInBytes=8.0 EiB, ColumnStat: N/A)

(950) ShuffledHashJoin
Left keys [1]: [transaction_id#11899]
Right keys [1]: [fc_transaction_id#11902]
Join type: LeftSemi
Join condition: None

(951) Project
Output [1]: [party_id#11898]
Input [2]: [party_id#11898, transaction_id#11899]

(952) HashAggregate
Input [1]: [party_id#11898]
Keys [1]: [party_id#11898]
Functions: []
Aggregate Attributes: []
Results [1]: [party_id#11898]

(953) Exchange
Input [1]: [party_id#11898]
Arguments: hashpartitioning(party_id#11898, 200), ENSURE_REQUIREMENTS, [plan_id=156018]

(954) HashAggregate
Input [1]: [party_id#11898]
Keys [1]: [party_id#11898]
Functions: []
Aggregate Attributes: []
Results [1]: [party_id#11898]

(955) Scan JDBCRelation((SELECT distinct party_id, transaction_id FROM public.transaction_party_cross_party) SPARK_GEN_SUBQ_3592)
[numPartitions=1] [codegen id : 102]
Output [2]: [party_id#11904, transaction_id#11905]
Arguments: [party_id#11904, transaction_id#11905], [StructField(party_id,IntegerType,true), StructField(transaction_id,StringType,true)],
{IsNotNull(party_id), IsNotNull(transaction_id)}, {IsNotNull(party_id), IsNotNull(transaction_id)},
PushedDownOperators(None,None,None,None,List(),List()), JDBCRDD[1681] at Spark Connect - session_id: "1b4f6863-c045-4bc4-8d01-
46ee376b2f58"
user_context {
  user_id: "6106180720153940"
  user_name: "anton@forecasa..., JDBCRelation((SELECT distinct party_id, transaction_id FROM public.transaction_party_cross_party)
SPARK_GEN_SUBQ_3592) [numPartitions=1], Statistics(sizeInBytes=8.0 EiB, ColumnStat: N/A)
External engine query: SELECT "party_id","transaction_id" FROM (SELECT distinct party_id, transaction_id FROM
public.transaction_party_cross_party) SPARK_GEN_SUBQ_3592 WHERE ("party_id" IS NOT NULL) AND ("transaction_id" IS NOT NULL)

(956) PhotonRowToColumnar
Input [2]: [party_id#11904, transaction_id#11905]

(957) PhotonShuffleExchangeSink
Input [2]: [party_id#11904, transaction_id#11905]
Arguments: hashpartitioning(transaction_id#11905, 200)

(958) PhotonShuffleMapStage
Input [2]: [party_id#11904, transaction_id#11905]
Arguments: ENSURE_REQUIREMENTS, [id=#156027]

(959) ShuffleQueryStage
Output [2]: [party_id#11904, transaction_id#11905]
Arguments: 101, Statistics(sizeInBytes=8.0 EiB, ColumnStat: N/A)

(960) Scan JDBCRelation((SELECT fc_transaction_id FROM publish.transactions WHERE fc_updated_at > '2000-04-16 12:00:00')
SPARK_GEN_SUBQ_3600) [numPartitions=1] [codegen id : 103]
Output [1]: [fc_transaction_id#11908]
Arguments: [fc_transaction_id#11908], [StructField(fc_transaction_id,StringType,true)], {IsNotNull(fc_transaction_id)},
{IsNotNull(fc_transaction_id)}, PushedDownOperators(None,None,None,None,List(),List()), JDBCRDD[1682] at Spark Connect - session_id:
```

```
"1b4f6863-c045-4bc4-8d01-46ee376b2f58"
user_context {
  user_id: "6106180720153940"
  user_name: "anton@forecasa...., JDBCRelation((SELECT fc_transaction_id FROM publish.transactions WHERE fc_updated_at > '2000-04-16
12:00:00') SPARK_GEN_SUBQ_3600) [numPartitions=1], Statistics(sizeInBytes=8.0 EiB, ColumnStat: N/A)
External engine query: SELECT "fc_transaction_id" FROM (SELECT fc_transaction_id FROM publish.transactions WHERE fc_updated_at > '2000-04-
16 12:00:00') SPARK_GEN_SUBQ_3600 WHERE ("fc_transaction_id" IS NOT NULL)

(961) PhotonRowToColumnar
Input [1]: [fc_transaction_id#11908]

(962) PhotonShuffleExchangeSink
Input [1]: [fc_transaction_id#11908]
Arguments: hashpartitioning(fc_transaction_id#11908, 200)

(963) PhotonShuffleMapStage
Input [1]: [fc_transaction_id#11908]
Arguments: ENSURE_REQUIREMENTS, [id=#156037]

(964) ShuffleQueryStage
Output [1]: [fc_transaction_id#11908]
Arguments: 102, Statistics(sizeInBytes=8.0 EiB, ColumnStat: N/A)

(965) ShuffledHashJoin
Left keys [1]: [transaction_id#11905]
Right keys [1]: [fc_transaction_id#11908]
Join type: LeftSemi
Join condition: None

(966) Project
Output [1]: [party_id#11904]
Input [2]: [party_id#11904, transaction_id#11905]

(967) HashAggregate
Input [1]: [party_id#11904]
Keys [1]: [party_id#11904]
Functions: []
Aggregate Attributes: []
Results [1]: [party_id#11904]

(968) Exchange
Input [1]: [party_id#11904]
Arguments: hashpartitioning(party_id#11904, 200), ENSURE_REQUIREMENTS, [plan_id=156043]

(969) HashAggregate
Input [1]: [party_id#11904]
Keys [1]: [party_id#11904]
Functions: []
Aggregate Attributes: []
Results [1]: [party_id#11904]

(970) Union

(971) HashAggregate
Input [1]: [party_id#11898]
Keys [1]: [party_id#11898]
Functions: []
Aggregate Attributes: []
Results [1]: [party_id#11898]

(972) Exchange
Input [1]: [party_id#11898]
Arguments: hashpartitioning(party_id#11898, 200), ENSURE_REQUIREMENTS, [plan_id=156047]

(973) ShuffledHashJoin
Left keys [1]: [party_id#11869]
Right keys [1]: [party_id#11898]
Join type: LeftSemi
Join condition: None

(974) HashAggregate
Input [11]: [party_name#11868, party_id#11869, company_id#11870, deleted_at#11871, county#11882, transaction_type#11883,
fc_transaction_date#11884, fc_recorded_date#11885, fcdateupdated#11928, fctransactionid#11888, pdf_id#11889]
Keys [11]: [party_name#11868, party_id#11869, company_id#11870, deleted_at#11871, county#11882, transaction_type#11883,
fc_transaction_date#11884, fc_recorded_date#11885, fcdateupdated#11928, fctransactionid#11888, pdf_id#11889]
Functions: []
Aggregate Attributes: []
Results [11]: [party_name#11868, party_id#11869, company_id#11870, deleted_at#11871, county#11882, transaction_type#11883,
fc_transaction_date#11884, fc_recorded_date#11885, fcdateupdated#11928, fctransactionid#11888, pdf_id#11889]

(975) Exchange
Input [11]: [party_name#11868, party_id#11869, company_id#11870, deleted_at#11871, county#11882, transaction_type#11883,
fc_transaction_date#11884, fc_recorded_date#11885, fcdateupdated#11928, fctransactionid#11888, pdf_id#11889]
```

```
Arguments: hashpartitioning(pdf_id#11889, 200), ENSURE_REQUIREMENTS, [plan_id=156050]

(976) Scan JDBCRelation((SELECT pdf_id FROM public.pdf_record) SPARK_GEN_SUBQ_3608) [numPartitions=1] [codegen id : 104]
Output [1]: [pdf_id#11910]
Arguments: [pdf_id#11910], [StructField(pdf_id,StringType,true)], {NotNull(pdf_id)}, {NotNull(pdf_id)},
PushedDownOperators(None,None,None,None,List(),List()), JDBCRDD[1683] at Spark Connect - session_id: "1b4f6863-c045-4bc4-8d01-46ee376b2f58"
user_context {
  user_id: "6106180720153940"
  user_name: "anton@forecasa...", JDBCRelation((SELECT pdf_id FROM public.pdf_record) SPARK_GEN_SUBQ_3608) [numPartitions=1],
Statistics(sizeInBytes=8.0 EiB, ColumnStat: N/A)
External engine query: SELECT "pdf_id" FROM (SELECT pdf_id FROM public.pdf_record) SPARK_GEN_SUBQ_3608 WHERE ("pdf_id" IS NOT NULL)

(977) PhotonRowToColumnar
Input [1]: [pdf_id#11910]

(978) PhotonShuffleExchangeSink
Input [1]: [pdf_id#11910]
Arguments: hashpartitioning(pdf_id#11910, 200)

(979) PhotonShuffleMapStage
Input [1]: [pdf_id#11910]
Arguments: ENSURE_REQUIREMENTS, [id=#156058]

(980) ShuffleQueryStage
Output [1]: [pdf_id#11910]
Arguments: 103, Statistics(sizeInBytes=8.0 EiB, ColumnStat: N/A)

(981) ShuffledHashJoin
Left keys [1]: [pdf_id#11889]
Right keys [1]: [pdf_id#11910]
Join type: LeftOuter
Join condition: None

(982) Project
Output [11]: [party_name#11868, party_id#11869, company_id#11870, deleted_at#11871, county#11882, transaction_type#11883,
fc_transaction_date#11884, fc_recorded_date#11885, fcdateupdated#11928, fctransactionid#11888, ((isnotnull(pdf_id#11910) AND
(transaction_type#11883 = MORTGAGE)) <=> true) AS has_pdf#11960]
Input [12]: [party_name#11868, party_id#11869, company_id#11870, deleted_at#11871, county#11882, transaction_type#11883,
fc_transaction_date#11884, fc_recorded_date#11885, fcdateupdated#11928, fctransactionid#11888, pdf_id#11889, pdf_id#11910]

(983) HashAggregate
Input [11]: [party_name#11868, party_id#11869, company_id#11870, deleted_at#11871, county#11882, transaction_type#11883,
fc_transaction_date#11884, fc_recorded_date#11885, fcdateupdated#11928, fctransactionid#11888, has_pdf#11960]
Keys [11]: [party_name#11868, party_id#11869, company_id#11870, deleted_at#11871, county#11882, transaction_type#11883,
fc_transaction_date#11884, fc_recorded_date#11885, fcdateupdated#11928, fctransactionid#11888, has_pdf#11960]
Functions: []
Aggregate Attributes: []
Results [11]: [party_name#11868, party_id#11869, company_id#11870, deleted_at#11871, county#11882, transaction_type#11883,
fc_transaction_date#11884, fc_recorded_date#11885, fcdateupdated#11928, fctransactionid#11888, has_pdf#11960]

(984) Exchange
Input [11]: [party_name#11868, party_id#11869, company_id#11870, deleted_at#11871, county#11882, transaction_type#11883,
fc_transaction_date#11884, fc_recorded_date#11885, fcdateupdated#11928, fctransactionid#11888, has_pdf#11960]
Arguments: hashpartitioning(party_name#11868, party_id#11869, company_id#11870, deleted_at#11871, county#11882, transaction_type#11883,
fc_transaction_date#11884, fc_recorded_date#11885, fcdateupdated#11928, fctransactionid#11888, has_pdf#11960, 200), ENSURE_REQUIREMENTS,
[plan_id=156064]

(985) HashAggregate
Input [11]: [party_name#11868, party_id#11869, company_id#11870, deleted_at#11871, county#11882, transaction_type#11883,
fc_transaction_date#11884, fc_recorded_date#11885, fcdateupdated#11928, fctransactionid#11888, has_pdf#11960]
Keys [11]: [party_name#11868, party_id#11869, company_id#11870, deleted_at#11871, county#11882, transaction_type#11883,
fc_transaction_date#11884, fc_recorded_date#11885, fcdateupdated#11928, fctransactionid#11888, has_pdf#11960]
Functions: []
Aggregate Attributes: []
Results [3]: [party_id#11869, county#11882, fc_recorded_date#11885]

(986) Scan JDBCRelation((SELECT party_name, party_id, company_id, deleted_at, updated_at FROM public.party) SPARK_GEN_SUBQ_3616)
[numPartitions=1] [codegen id : 105]
Output [5]: [party_name#11977, party_id#11978, company_id#11979, deleted_at#11980, updated_at#11981]
Arguments: [party_name#11977, party_id#11978, company_id#11979, deleted_at#11980, updated_at#11981],
[StructField(party_name,StringType,true), StructField(party_id,IntegerType,true), StructField(company_id,IntegerType,true),
StructField(deleted_at,TimestampType,true), StructField(updated_at,TimestampType,true)], {NotNull(party_id)}, {NotNull(party_id)},
PushedDownOperators(None,None,None,None,List(),List()), JDBCRDD[1684] at Spark Connect - session_id: "1b4f6863-c045-4bc4-8d01-46ee376b2f58"
user_context {
  user_id: "6106180720153940"
  user_name: "anton@forecasa...", JDBCRelation((SELECT party_name, party_id, company_id, deleted_at, updated_at FROM public.party)
SPARK_GEN_SUBQ_3616) [numPartitions=1], Statistics(sizeInBytes=8.0 EiB, ColumnStat: N/A)
External engine query: SELECT "party_name","party_id","company_id","deleted_at","updated_at" FROM (SELECT party_name, party_id,
company_id, deleted_at, updated_at FROM public.party) SPARK_GEN_SUBQ_3616 WHERE ("party_id" IS NOT NULL)

(987) PhotonRowToColumnar
```

```

Input [5]: [party_name#11977, party_id#11978, company_id#11979, deleted_at#11980, updated_at#11981]

(988) PhotonShuffleExchangeSink
Input [5]: [party_name#11977, party_id#11978, company_id#11979, deleted_at#11980, updated_at#11981]
Arguments: hashpartitioning(party_id#11978, 200)

(989) PhotonShuffleMapStage
Input [5]: [party_name#11977, party_id#11978, company_id#11979, deleted_at#11980, updated_at#11981]
Arguments: ENSURE_REQUIREMENTS, [id=#156073]

(990) ShuffleQueryStage
Output [5]: [party_name#11977, party_id#11978, company_id#11979, deleted_at#11980, updated_at#11981]
Arguments: 104, Statistics(sizeInBytes=8.0 EiB, ColumnStat: N/A)

(991) Scan JDBCRelation((SELECT distinct party_id, transaction_id FROM public.transaction_party_cross_party) SPARK_GEN_SUBQ_3624)
[numPartitions=1] [codegen id : 106]
Output [2]: [party_id#11987, transaction_id#11988]
Arguments: [party_id#11987, transaction_id#11988], [StructField(party_id,IntegerType,true), StructField(transaction_id,StringType,true)],
{NotNull(party_id), NotNull(transaction_id)}, {NotNull(party_id), NotNull(transaction_id)},
PushedDownOperators(None,None,None,None,List(),List()), JDBCRDD[1685] at Spark Connect - session_id: "1b4f6863-c045-4bc4-8d01-
46ee376b2f58"
user_context {
  user_id: "6106180720153940"
  user_name: "anton@forecasa...., JDBCRelation((SELECT distinct party_id, transaction_id FROM public.transaction_party_cross_party)
SPARK_GEN_SUBQ_3624) [numPartitions=1], Statistics(sizeInBytes=8.0 EiB, ColumnStat: N/A)
External engine query: SELECT "party_id","transaction_id" FROM (SELECT distinct party_id, transaction_id FROM
public.transaction_party_cross_party) SPARK_GEN_SUBQ_3624 WHERE ("party_id" IS NOT NULL) AND ("transaction_id" IS NOT NULL)

(992) PhotonRowToColumnar
Input [2]: [party_id#11987, transaction_id#11988]

(993) PhotonShuffleExchangeSink
Input [2]: [party_id#11987, transaction_id#11988]
Arguments: hashpartitioning(party_id#11987, 200)

(994) PhotonShuffleMapStage
Input [2]: [party_id#11987, transaction_id#11988]
Arguments: ENSURE_REQUIREMENTS, [id=#156083]

(995) ShuffleQueryStage
Output [2]: [party_id#11987, transaction_id#11988]
Arguments: 105, Statistics(sizeInBytes=8.0 EiB, ColumnStat: N/A)

(996) ShuffledHashJoin
Left keys [1]: [party_id#11978]
Right keys [1]: [party_id#11987]
Join type: Inner
Join condition: None

(997) Project
Output [6]: [party_id#11978, party_name#11977, company_id#11979, deleted_at#11980, updated_at#11981, transaction_id#11988]
Input [7]: [party_name#11977, party_id#11978, company_id#11979, deleted_at#11980, updated_at#11981, party_id#11987, transaction_id#11988]

(998) HashAggregate
Input [6]: [party_id#11978, party_name#11977, company_id#11979, deleted_at#11980, updated_at#11981, transaction_id#11988]
Keys [6]: [party_name#11977, party_id#11978, company_id#11979, deleted_at#11980, transaction_id#11988, updated_at#11981]
Functions: []
Aggregate Attributes: []
Results [6]: [party_name#11977, party_id#11978, company_id#11979, deleted_at#11980, transaction_id#11988, updated_at#11981]

(999) Exchange
Input [6]: [party_name#11977, party_id#11978, company_id#11979, deleted_at#11980, transaction_id#11988, updated_at#11981]
Arguments: hashpartitioning(transaction_id#11988, 200), ENSURE_REQUIREMENTS, [plan_id=156089]

(1000) Scan JDBCRelation((
SELECT
  "County" as county,
  "Transaction_Type" as transaction_type,
  "FC_Transaction_Date" as fc_transaction_date,
  "FC_Recorded_Date" as fc_recorded_date,
  "FC_Cross_Party" as fc_cross_party,
  fcdateupdated,
  fctransactionid,
  "PDF_ID" as pdf_id
FROM public.transaction) SPARK_GEN_SUBQ_3632) [numPartitions=1] [codegen id : 107]
Output [7]: [county#11991, transaction_type#11992, fc_transaction_date#11993, fc_recorded_date#11994, fcdateupdated#11996,
fctransactionid#11997, pdf_id#11998]
Arguments: [county#11991, transaction_type#11992, fc_transaction_date#11993, fc_recorded_date#11994, fcdateupdated#11996,
fctransactionid#11997, pdf_id#11998], [StructField(county,StringType,true), StructField(transaction_type,StringType,true),
StructField(fc_transaction_date,StringType,true), StructField(fc_recorded_date,StringType,true),
StructField(fcdateupdated,TimestampType,true), StructField(fctransactionid,StringType,true), StructField(pdf_id,StringType,true)],
{EqualTo(transaction_type,MORTGAGE), NotNull(fctransactionid), NotNull(transaction_type)}, {EqualTo(transaction_type,MORTGAGE),
NotNull(fctransactionid), NotNull(transaction_type)}, PushedDownOperators(None,None,None,None,List(),List()), JDBCRDD[1686] at Spark

```

```
Connect - session_id: "1b4f6863-c045-4bc4-8d01-46ee376b2f58"
user_context {
  user_id: "6106180720153940"
  user_name: "anton@forecasa...., JDBCRelation((
SELECT
  "County" as county,
  "Transaction_Type" as transaction_type,
  "FC_Transaction_Date" as fc_transaction_date,
  "FC_Recorded_Date" as fc_recorded_date,
  "FC_Cross_Party" as fc_cross_party,
  fcdateupdated,
  fctransactionid,
  "PDF_ID" as pdf_id
FROM public.transaction) SPARK_GEN_SUBQ_3632) [numPartitions=1], Statistics(sizeInBytes=8.0 EiB, ColumnStat: N/A)
External engine query: SELECT
SELECT "county","transaction_type","fc_transaction_date","fc_recorded_date","fcdateupdated","fctransactionid","pdf_id" FROM (
SELECT
  "County" as county,
  "Transaction_Type" as transaction_type,
  "FC_Transaction_Date" as fc_transaction_date,
  "FC_Recorded_Date" as fc_recorded_date,
  "FC_Cross_Party" as fc_cross_party,
  fcdateupdated,
  fctransactionid,
  "PDF_ID" as pdf_id
FROM public.transaction) SPARK_GEN_SUBQ_3632 WHERE ("transaction_type" IS NOT NULL) AND ("fctransactionid" IS NOT NULL) AND
("transaction_type" = 'MORTGAGE')

(1001) PhotonRowToColumnar
Input [7]: [county#11991, transaction_type#11992, fc_transaction_date#11993, fc_recorded_date#11994, fcdateupdated#11996,
fctransactionid#11997, pdf_id#11998]

(1002) PhotonShuffleExchangeSink
Input [7]: [county#11991, transaction_type#11992, fc_transaction_date#11993, fc_recorded_date#11994, fcdateupdated#11996,
fctransactionid#11997, pdf_id#11998]
Arguments: hashpartitioning(fctransactionid#11997, 200)

(1003) PhotonShuffleMapStage
Input [7]: [county#11991, transaction_type#11992, fc_transaction_date#11993, fc_recorded_date#11994, fcdateupdated#11996,
fctransactionid#11997, pdf_id#11998]
Arguments: ENSURE_REQUIREMENTS, [id=#156097]

(1004) ShuffleQueryStage
Output [7]: [county#11991, transaction_type#11992, fc_transaction_date#11993, fc_recorded_date#11994, fcdateupdated#11996,
fctransactionid#11997, pdf_id#11998]
Arguments: 106, Statistics(sizeInBytes=8.0 EiB, ColumnStat: N/A)

(1005) ShuffledHashJoin
Left keys [1]: [transaction_id#11988]
Right keys [1]: [fctransactionid#11997]
Join type: Inner
Join condition: None

(1006) Project
Output [11]: [party_name#11977, party_id#11978, company_id#11979, deleted_at#11980, county#11991, transaction_type#11992,
fc_transaction_date#11993, fc_recorded_date#11994, greatest(fcdateupdated#11996, updated_at#11981) AS fcdateupdated#12038,
fctransactionid#11997, pdf_id#11998]
Input [13]: [party_name#11977, party_id#11978, company_id#11979, deleted_at#11980, transaction_id#11988, updated_at#11981, county#11991,
transaction_type#11992, fc_transaction_date#11993, fc_recorded_date#11994, fcdateupdated#11996, fctransactionid#11997, pdf_id#11998]

(1007) HashAggregate
Input [11]: [party_name#11977, party_id#11978, company_id#11979, deleted_at#11980, county#11991, transaction_type#11992,
fc_transaction_date#11993, fc_recorded_date#11994, fcdateupdated#12038, fctransactionid#11997, pdf_id#11998]
Keys [11]: [party_name#11977, party_id#11978, company_id#11979, deleted_at#11980, county#11991, transaction_type#11992,
fc_transaction_date#11993, fc_recorded_date#11994, fcdateupdated#12038, fctransactionid#11997, pdf_id#11998]
Functions: []
Aggregate Attributes: []
Results [11]: [party_name#11977, party_id#11978, company_id#11979, deleted_at#11980, county#11991, transaction_type#11992,
fc_transaction_date#11993, fc_recorded_date#11994, fcdateupdated#12038, fctransactionid#11997, pdf_id#11998]

(1008) Exchange
Input [11]: [party_name#11977, party_id#11978, company_id#11979, deleted_at#11980, county#11991, transaction_type#11992,
fc_transaction_date#11993, fc_recorded_date#11994, fcdateupdated#12038, fctransactionid#11997, pdf_id#11998]
Arguments: hashpartitioning(party_id#11978, 200), ENSURE_REQUIREMENTS, [plan_id=156103]

(1009) Scan JDBCRelation((SELECT distinct party_id, transaction_id FROM public.transaction_party_name) SPARK_GEN_SUBQ_3640)
[numPartitions=1] [codegen id : 108]
Output [2]: [party_id#12007, transaction_id#12008]
Arguments: [party_id#12007, transaction_id#12008], [StructField(party_id,IntegerType,true), StructField(transaction_id,StringType,true)],
{IsNotNull(party_id), IsNotNull(transaction_id)}, {IsNotNull(party_id), IsNotNull(transaction_id)},
PushedDownOperators(None,None,None,None,List(),List()), JDBCRDD[1687] at Spark Connect - session_id: "1b4f6863-c045-4bc4-8d01-
46ee376b2f58"
user_context {
```



```
user_id: "6106180720153940"
user_name: "anton@forecasa..., JDBCRelation((SELECT distinct party_id, transaction_id FROM public.transaction_party_name)
SPARK_GEN_SUBQ_3640) [numPartitions=1], Statistics(sizeInBytes=8.0 EiB, ColumnStat: N/A)
External engine query: SELECT "party_id","transaction_id" FROM (SELECT distinct party_id, transaction_id FROM
public.transaction_party_name) SPARK_GEN_SUBQ_3640 WHERE ("party_id" IS NOT NULL) AND ("transaction_id" IS NOT NULL)

(1010) PhotonRowToColumnar
Input [2]: [party_id#12007, transaction_id#12008]

(1011) PhotonShuffleExchangeSink
Input [2]: [party_id#12007, transaction_id#12008]
Arguments: hashpartitioning(transaction_id#12008, 200)

(1012) PhotonShuffleMapStage
Input [2]: [party_id#12007, transaction_id#12008]
Arguments: ENSURE_REQUIREMENTS, [id=#156111]

(1013) ShuffleQueryStage
Output [2]: [party_id#12007, transaction_id#12008]
Arguments: 107, Statistics(sizeInBytes=8.0 EiB, ColumnStat: N/A)

(1014) Scan JDBCRelation((SELECT fc_transaction_id FROM publish.transactions WHERE fc_updated_at > '2000-04-16 12:00:00')
SPARK_GEN_SUBQ_3648) [numPartitions=1] [codegen id : 109]
Output [1]: [fc_transaction_id#12011]
Arguments: [fc_transaction_id#12011], [StructField(fc_transaction_id,StringType,true)], {IsNotNull(fc_transaction_id)},
{IsNotNull(fc_transaction_id)}, PushedDownOperators(None,None,None,List(),List()), JDBCRDD[1688] at Spark Connect - session_id:
"1b4f6863-c045-4bc4-8d01-46ee376b2f58"
user_context {
  user_id: "6106180720153940"
  user_name: "anton@forecasa..., JDBCRelation((SELECT fc_transaction_id FROM publish.transactions WHERE fc_updated_at > '2000-04-16
12:00:00') SPARK_GEN_SUBQ_3648) [numPartitions=1], Statistics(sizeInBytes=8.0 EiB, ColumnStat: N/A)
External engine query: SELECT "fc_transaction_id" FROM (SELECT fc_transaction_id FROM publish.transactions WHERE fc_updated_at > '2000-04-
16 12:00:00') SPARK_GEN_SUBQ_3648 WHERE ("fc_transaction_id" IS NOT NULL)

(1015) PhotonRowToColumnar
Input [1]: [fc_transaction_id#12011]

(1016) PhotonShuffleExchangeSink
Input [1]: [fc_transaction_id#12011]
Arguments: hashpartitioning(fc_transaction_id#12011, 200)

(1017) PhotonShuffleMapStage
Input [1]: [fc_transaction_id#12011]
Arguments: ENSURE_REQUIREMENTS, [id=#156121]

(1018) ShuffleQueryStage
Output [1]: [fc_transaction_id#12011]
Arguments: 108, Statistics(sizeInBytes=8.0 EiB, ColumnStat: N/A)

(1019) ShuffledHashJoin
Left keys [1]: [transaction_id#12008]
Right keys [1]: [fc_transaction_id#12011]
Join type: LeftSemi
Join condition: None

(1020) Project
Output [1]: [party_id#12007]
Input [2]: [party_id#12007, transaction_id#12008]

(1021) HashAggregate
Input [1]: [party_id#12007]
Keys [1]: [party_id#12007]
Functions: []
Aggregate Attributes: []
Results [1]: [party_id#12007]

(1022) Exchange
Input [1]: [party_id#12007]
Arguments: hashpartitioning(party_id#12007, 200), ENSURE_REQUIREMENTS, [plan_id=156127]

(1023) HashAggregate
Input [1]: [party_id#12007]
Keys [1]: [party_id#12007]
Functions: []
Aggregate Attributes: []
Results [1]: [party_id#12007]

(1024) Scan JDBCRelation((SELECT distinct party_id, transaction_id FROM public.transaction_party_cross_party) SPARK_GEN_SUBQ_3656)
[numPartitions=1] [codegen id : 110]
Output [2]: [party_id#12013, transaction_id#12014]
Arguments: [party_id#12013, transaction_id#12014], [StructField(party_id,IntegerType,true), StructField(transaction_id,StringType,true)],
{IsNotNull(party_id), IsNotNull(transaction_id)}, {IsNotNull(party_id), IsNotNull(transaction_id)},
PushedDownOperators(None,None,None,None,List(),List()), JDBCRDD[1689] at Spark Connect - session_id: "1b4f6863-c045-4bc4-8d01-
```

```
46ee376b2f58"
user_context {
  user_id: "6106180720153940"
  user_name: "anton@forecasa...., JDBCRelation((SELECT distinct party_id, transaction_id FROM public.transaction_party_cross_party)
SPARK_GEN_SUBQ_3656) [numPartitions=1], Statistics(sizeInBytes=8.0 EiB, ColumnStat: N/A)
External engine query: SELECT "party_id","transaction_id" FROM (SELECT distinct party_id, transaction_id FROM
public.transaction_party_cross_party) SPARK_GEN_SUBQ_3656 WHERE ("party_id" IS NOT NULL) AND ("transaction_id" IS NOT NULL)

(1025) PhotonRowToColumnar
Input [2]: [party_id#12013, transaction_id#12014]

(1026) PhotonShuffleExchangeSink
Input [2]: [party_id#12013, transaction_id#12014]
Arguments: hashpartitioning(transaction_id#12014, 200)

(1027) PhotonShuffleMapStage
Input [2]: [party_id#12013, transaction_id#12014]
Arguments: ENSURE_REQUIREMENTS, [id=#156136]

(1028) ShuffleQueryStage
Output [2]: [party_id#12013, transaction_id#12014]
Arguments: 109, Statistics(sizeInBytes=8.0 EiB, ColumnStat: N/A)

(1029) Scan JDBCRelation((SELECT fc_transaction_id FROM publish.transactions WHERE fc_updated_at > '2000-04-16 12:00:00')
SPARK_GEN_SUBQ_3664) [numPartitions=1] [codegen id : 111]
Output [1]: [fc_transaction_id#12017]
Arguments: [fc_transaction_id#12017], [StructField(fc_transaction_id,StringType,true)], {IsNull(fc_transaction_id)},
{IsNull(fc_transaction_id)}, PushedDownOperators(None,None,None,None,List(),List()), JDBCRDD[1690] at Spark Connect - session_id:
"1b4f6863-c045-4bc4-8d01-46ee376b2f58"
user_context {
  user_id: "6106180720153940"
  user_name: "anton@forecasa...., JDBCRelation((SELECT fc_transaction_id FROM publish.transactions WHERE fc_updated_at > '2000-04-16
12:00:00') SPARK_GEN_SUBQ_3664) [numPartitions=1], Statistics(sizeInBytes=8.0 EiB, ColumnStat: N/A)
External engine query: SELECT "fc_transaction_id" FROM (SELECT fc_transaction_id FROM publish.transactions WHERE fc_updated_at > '2000-04-
16 12:00:00') SPARK_GEN_SUBQ_3664 WHERE ("fc_transaction_id" IS NOT NULL)

(1030) PhotonRowToColumnar
Input [1]: [fc_transaction_id#12017]

(1031) PhotonShuffleExchangeSink
Input [1]: [fc_transaction_id#12017]
Arguments: hashpartitioning(fc_transaction_id#12017, 200)

(1032) PhotonShuffleMapStage
Input [1]: [fc_transaction_id#12017]
Arguments: ENSURE_REQUIREMENTS, [id=#156146]

(1033) ShuffleQueryStage
Output [1]: [fc_transaction_id#12017]
Arguments: 110, Statistics(sizeInBytes=8.0 EiB, ColumnStat: N/A)

(1034) ShuffledHashJoin
Left keys [1]: [transaction_id#12014]
Right keys [1]: [fc_transaction_id#12017]
Join type: LeftSemi
Join condition: None

(1035) Project
Output [1]: [party_id#12013]
Input [2]: [party_id#12013, transaction_id#12014]

(1036) HashAggregate
Input [1]: [party_id#12013]
Keys [1]: [party_id#12013]
Functions: []
Aggregate Attributes: []
Results [1]: [party_id#12013]

(1037) Exchange
Input [1]: [party_id#12013]
Arguments: hashpartitioning(party_id#12013, 200), ENSURE_REQUIREMENTS, [plan_id=156152]

(1038) HashAggregate
Input [1]: [party_id#12013]
Keys [1]: [party_id#12013]
Functions: []
Aggregate Attributes: []
Results [1]: [party_id#12013]

(1039) Union

(1040) HashAggregate
Input [1]: [party_id#12007]
```


Keys [1]: [party_id#12007]
Functions: []
Aggregate Attributes: []
Results [1]: [party_id#12007]

(1041) Exchange

Input [1]: [party_id#12007]
Arguments: hashpartitioning(party_id#12007, 200), ENSURE_REQUIREMENTS, [plan_id=156156]

(1042) ShuffledHashJoin

Left keys [1]: [party_id#11978]
Right keys [1]: [party_id#12007]
Join type: LeftSemi
Join condition: None

(1043) HashAggregate

Input [11]: [party_name#11977, party_id#11978, company_id#11979, deleted_at#11980, county#11991, transaction_type#11992, fc_transaction_date#11993, fc_recorded_date#11994, fcdateupdated#12038, fctransactionid#11997, pdf_id#11998]
Keys [11]: [party_name#11977, party_id#11978, company_id#11979, deleted_at#11980, county#11991, transaction_type#11992, fc_transaction_date#11993, fc_recorded_date#11994, fcdateupdated#12038, fctransactionid#11997, pdf_id#11998]
Functions: []
Aggregate Attributes: []
Results [11]: [party_name#11977, party_id#11978, company_id#11979, deleted_at#11980, county#11991, transaction_type#11992, fc_transaction_date#11993, fc_recorded_date#11994, fcdateupdated#12038, fctransactionid#11997, pdf_id#11998]

(1044) Exchange

Input [11]: [party_name#11977, party_id#11978, company_id#11979, deleted_at#11980, county#11991, transaction_type#11992, fc_transaction_date#11993, fc_recorded_date#11994, fcdateupdated#12038, fctransactionid#11997, pdf_id#11998]
Arguments: hashpartitioning(pdf_id#11998, 200), ENSURE_REQUIREMENTS, [plan_id=156159]

(1045) Scan JDBCRelation((SELECT pdf_id FROM public.pdf_record) SPARK_GEN_SUBQ_3672) [numPartitions=1] [codegen id : 112]

Output [1]: [pdf_id#12019]
Arguments: [pdf_id#12019], [StructField(pdf_id,StringType,true)], {IsNotNull(pdf_id)}, {IsNotNull(pdf_id)},
PushedDownOperators(None,None,None,None,List(),List()), JDBCRDD[1691] at Spark Connect - session_id: "1b4f6863-c045-4bc4-8d01-46ee376b2f58"
user_context {
 user_id: "6106180720153940"
 user_name: "anton@forecasa...., JDBCRelation((SELECT pdf_id FROM public.pdf_record) SPARK_GEN_SUBQ_3672) [numPartitions=1],
Statistics(sizeInBytes=8.0 EiB, ColumnStat: N/A)
External engine query: SELECT "pdf_id" FROM (SELECT pdf_id FROM public.pdf_record) SPARK_GEN_SUBQ_3672 WHERE ("pdf_id" IS NOT NULL)

(1046) PhotonRowToColumnar

Input [1]: [pdf_id#12019]

(1047) PhotonShuffleExchangeSink

Input [1]: [pdf_id#12019]
Arguments: hashpartitioning(pdf_id#12019, 200)

(1048) PhotonShuffleMapStage

Input [1]: [pdf_id#12019]
Arguments: ENSURE_REQUIREMENTS, [id=#156167]

(1049) ShuffleQueryStage

Output [1]: [pdf_id#12019]
Arguments: 111, Statistics(sizeInBytes=8.0 EiB, ColumnStat: N/A)

(1050) ShuffledHashJoin

Left keys [1]: [pdf_id#11998]
Right keys [1]: [pdf_id#12019]
Join type: LeftOuter
Join condition: None

(1051) Project

Output [11]: [party_name#11977, party_id#11978, company_id#11979, deleted_at#11980, county#11991, transaction_type#11992, fc_transaction_date#11993, fc_recorded_date#11994, fcdateupdated#12038, fctransactionid#11997, ((isnotnull(pdf_id#12019) AND (transaction_type#11992 = MORTGAGE)) <=> true) AS has_pdf#12072]
Input [12]: [party_name#11977, party_id#11978, company_id#11979, deleted_at#11980, county#11991, transaction_type#11992, fc_transaction_date#11993, fc_recorded_date#11994, fcdateupdated#12038, fctransactionid#11997, pdf_id#11998, pdf_id#12019]

(1052) HashAggregate

Input [11]: [party_name#11977, party_id#11978, company_id#11979, deleted_at#11980, county#11991, transaction_type#11992, fc_transaction_date#11993, fc_recorded_date#11994, fcdateupdated#12038, fctransactionid#11997, has_pdf#12072]
Keys [11]: [party_name#11977, party_id#11978, company_id#11979, deleted_at#11980, county#11991, transaction_type#11992, fc_transaction_date#11993, fc_recorded_date#11994, fcdateupdated#12038, fctransactionid#11997, has_pdf#12072]
Functions: []
Aggregate Attributes: []
Results [11]: [party_name#11977, party_id#11978, company_id#11979, deleted_at#11980, county#11991, transaction_type#11992, fc_transaction_date#11993, fc_recorded_date#11994, fcdateupdated#12038, fctransactionid#11997, has_pdf#12072]

(1053) Exchange

Input [11]: [party_name#11977, party_id#11978, company_id#11979, deleted_at#11980, county#11991, transaction_type#11992, fc_transaction_date#11993, fc_recorded_date#11994, fcdateupdated#12038, fctransactionid#11997, has_pdf#12072]
Arguments: hashpartitioning(party_name#11977, party_id#11978, company_id#11979, deleted_at#11980, county#11991, transaction_type#11992,

fc_transaction_date#11993, fc_recorded_date#11994, fcdateupdated#12038, fctransactionid#11997, has_pdf#12072, 200), ENSURE_REQUIREMENTS, [plan_id=156173]

(1054) HashAggregate

Input [11]: [party_name#11977, party_id#11978, company_id#11979, deleted_at#11980, county#11991, transaction_type#11992, fc_transaction_date#11993, fc_recorded_date#11994, fcdateupdated#12038, fctransactionid#11997, has_pdf#12072]

Keys [11]: [party_name#11977, party_id#11978, company_id#11979, deleted_at#11980, county#11991, transaction_type#11992, fc_transaction_date#11993, fc_recorded_date#11994, fcdateupdated#12038, fctransactionid#11997, has_pdf#12072]

Functions: []

Aggregate Attributes: []

Results [3]: [party_id#11978, county#11991, fc_recorded_date#11994]

(1055) Union

(1056) Sort

Input [3]: [party_id#11869, county#11882, fc_recorded_date#11885]

Arguments: [party_id#11869 ASC NULLS FIRST, county#11882 ASC NULLS FIRST], false, 0

(1057) SortAggregate

Input [3]: [party_id#11869, county#11882, fc_recorded_date#11885]

Keys [2]: [party_id#11869, county#11882]

Functions [1]: [partial_max(fc_recorded_date#11885) AS max#14269]

Aggregate Attributes [1]: [max#14268]

Results [3]: [party_id#11869, county#11882, max#14269]

(1058) Exchange

Input [3]: [party_id#11869, county#11882, max#14269]

Arguments: hashpartitioning(party_id#11869, county#11882, 200), ENSURE_REQUIREMENTS, [plan_id=156178]

(1059) Sort

Input [3]: [party_id#11869, county#11882, max#14269]

Arguments: [party_id#11869 ASC NULLS FIRST, county#11882 ASC NULLS FIRST], false, 0

(1060) SortAggregate

Input [3]: [party_id#11869, county#11882, max#14269]

Keys [2]: [party_id#11869, county#11882]

Functions [1]: [finalmerge_max(merge max#14269) AS max(fc_recorded_date#11885)#12117]

Aggregate Attributes [1]: [max(fc_recorded_date#11885)#12117]

Results [3]: [party_id#11869, county#11882, max(fc_recorded_date#11885)#12117 AS fc_recorded_date#12116]

(1061) Exchange

Input [3]: [party_id#11869, county#11882, fc_recorded_date#12116]

Arguments: hashpartitioning(party_id#11869, 200), ENSURE_REQUIREMENTS, [plan_id=156181]

(1062) Sort

Input [3]: [party_id#11869, county#11882, fc_recorded_date#12116]

Arguments: [party_id#11869 ASC NULLS FIRST, fc_recorded_date#12116 DESC NULLS LAST], false, 0

(1063) Window

Input [3]: [party_id#11869, county#11882, fc_recorded_date#12116]

Arguments: [party_id#11869, collect_list(county#11882, 0, 0) window specification (party_id#11869, fc_recorded_date#12116 DESC NULLS LAST, specifiedwindowframe(RangeFrame, unboundedpreceding\$(), currentrow\$())) AS ordered_concat#12122], [party_id#11869, [fc_recorded_date#12116 DESC NULLS LAST]

(1064) HashAggregate

Input [2]: [party_id#11869, ordered_concat#12122]

Keys [2]: [party_id#11869, ordered_concat#12122]

Functions: []

Aggregate Attributes: []

Results [2]: [party_id#11869, ordered_concat#12122]

(1065) Project

Output [2]: [party_id#11869, ordered_concat#12122]

Input [2]: [party_id#11869, ordered_concat#12122]

(1066) ObjectHashAggregate

Input [2]: [party_id#11869, ordered_concat#12122]

Keys [1]: [party_id#11869]

Functions [1]: [collect_list(ordered_concat#12122, 0, 0)]

Aggregate Attributes [1]: [collect_list(ordered_concat#12122, 0, 0)#12406]

Results [2]: [party_id#11869, substring(concat_ws(, flatten(collect_list(ordered_concat#12122, 0, 0)#12406)), 1, 500) AS recent_counties#12410]

(1067) ShuffledHashJoin

Left keys [1]: [party_id#12418]

Right keys [1]: [party_id#11869]

Join type: LeftOuter

Join condition: None

(1068) Project

Output [25]: [toprettystring(cast(party_id#12418 as bigint), Some(Etc/UTC)) AS toprettystring(id)#14132, toprettystring(party_name#12417, Some(Etc/UTC)) AS toprettystring(name)#14133, toprettystring(cast(company_id#12419 as bigint), Some(Etc/UTC)) AS toprettystring(company_id)#14134, toprettystring(cast(Most Recent Transaction#12879 as date), Some(Etc/UTC)) AS

```
toprettystring(recent_transaction_date)#14135, toprettystring(cast(Last Purchase Date#12994 as date), Some(Etc/UTC)) AS
toprettystring(last_purchase_date)#14136, toprettystring(cast(Last Sale Date#13104 as date), Some(Etc/UTC)) AS
toprettystring(last_sale_date)#14137, toprettystring(coalesce(Mortgage Transactions#12650L, 0), Some(Etc/UTC)) AS
toprettystring(mortgage_transactions)#14138, toprettystring(coalesce(Deed Transactions#12651L, 0), Some(Etc/UTC)) AS
toprettystring(deed_transactions)#14139, toprettystring(coalesce(Satisfaction of Mortgage Transactions#12652L, 0), Some(Etc/UTC)) AS
toprettystring(satisfaction_of_mort_transactions)#14140, toprettystring(coalesce(Assignment of Mortgage Transactions#12653L, 0),
Some(Etc/UTC)) AS toprettystring(assignment_of_mortgage_transactions)#14141, toprettystring(coalesce(lis_pendens_transactions#12654L, 0),
Some(Etc/UTC)) AS toprettystring(lis_pendens_transactions)#14142, toprettystring(coalesce(judgment_transactions#12655L, 0), Some(Etc/UTC))
AS toprettystring(judgment_transactions)#14143, toprettystring(coalesce(loan_modification_transactions#12656L, 0), Some(Etc/UTC)) AS
toprettystring(loan_modification_transactions)#14144, toprettystring(coalesce(Transactions as Buyer#13336L, 0), Some(Etc/UTC)) AS
toprettystring(transactions_as_buyer)#14145, toprettystring(coalesce(Transactions as Seller#13217L, 0), Some(Etc/UTC)) AS
toprettystring(transactions_as_seller)#14146, toprettystring(coalesce(Transactions as Borrower#13218L, 0), Some(Etc/UTC)) AS
toprettystring(transactions_as_borrower)#14147, toprettystring(coalesce(Transactions as Lender#13337L, 0), Some(Etc/UTC)) AS
toprettystring(transactions_as_lender)#14148, toprettystring(Last Lender Used#13602, Some(Etc/UTC)) AS
toprettystring(last_lender_used)#14149, toprettystring(cast(Last_Mortgage_Date#13603 as date), Some(Etc/UTC)) AS
toprettystring(last_mortgage_date)#14150, toprettystring(last_county#13604, Some(Etc/UTC)) AS toprettystring(last_county)#14151,
toprettystring(recent_counties#12410, Some(Etc/UTC)) AS toprettystring(recent_counties)#14152, toprettystring(recent_lenders#13886,
Some(Etc/UTC)) AS toprettystring(recent_lenders)#14153, toprettystring(fcdateupdated#12880, Some(Etc/UTC)) AS
toprettystring(fc_updated_at)#14154, toprettystring(deleted_at#12648, Some(Etc/UTC)) AS toprettystring(deleted_at)#14155,
toprettystring(has_pdf#12649, Some(Etc/UTC)) AS toprettystring(has_pdf)#14156]
Input [26]: [party_name#12417, party_id#12418, company_id#12419, deleted_at#12648, has_pdf#12649, Mortgage Transactions#12650L, Deed
Transactions#12651L, Satisfaction of Mortgage Transactions#12652L, Assignment of Mortgage Transactions#12653L,
lis_pendens_transactions#12654L, judgment_transactions#12655L, loan_modification_transactions#12656L, Most Recent Transaction#12879,
fcdateupdated#12880, Last Purchase Date#12994, Last Sale Date#13104, Transactions as Seller#13217L, Transactions as Borrower#13218L,
Transactions as Buyer#13336L, Transactions as Lender#13337L, Last Lender Used#13602, Last_Mortgage_Date#13603, last_county#13604,
recent_lenders#13886, party_id#11869, recent_counties#12410]
```

(1069) CollectLimit

```
Input [25]: [toprettystring(id)#14132, toprettystring(name)#14133, toprettystring(company_id)#14134,
toprettystring(recent_transaction_date)#14135, toprettystring(last_purchase_date)#14136, toprettystring(last_sale_date)#14137,
toprettystring(mortgage_transactions)#14138, toprettystring(deed_transactions)#14139,
toprettystring(satisfaction_of_mort_transactions)#14140, toprettystring(assignment_of_mortgage_transactions)#14141,
toprettystring(lis_pendens_transactions)#14142, toprettystring(judgment_transactions)#14143,
toprettystring(loan_modification_transactions)#14144, toprettystring(transactions_as_buyer)#14145,
toprettystring(transactions_as_seller)#14146, toprettystring(transactions_as_borrower)#14147,
toprettystring(transactions_as_lender)#14148, toprettystring(last_lender_used)#14149, toprettystring(last_mortgage_date)#14150,
toprettystring(last_county)#14151, toprettystring(recent_counties)#14152, toprettystring(recent_lenders)#14153,
toprettystring(fc_updated_at)#14154, toprettystring(deleted_at)#14155, toprettystring(has_pdf)#14156]
Arguments: 21
```

(1070) PhotonRowToColumnar

```
Input [5]: [party_name#12417, party_id#12418, company_id#12419, deleted_at#12420, updated_at#12421]
```

(1071) PhotonShuffleExchangeSink

```
Input [5]: [party_name#12417, party_id#12418, company_id#12419, deleted_at#12420, updated_at#12421]
Arguments: hashpartitioning(party_id#12418, 200)
```

(1072) PhotonShuffleMapStage

```
Input [5]: [party_name#12417, party_id#12418, company_id#12419, deleted_at#12420, updated_at#12421]
Arguments: ENSURE_REQUIREMENTS, [id=#151104]
```

(1073) PhotonShuffleExchangeSource

```
Input [5]: [party_name#12417, party_id#12418, company_id#12419, deleted_at#12420, updated_at#12421]
```

(1074) PhotonRowToColumnar

```
Input [2]: [party_id#12427, transaction_id#12428]
```

(1075) PhotonShuffleExchangeSink

```
Input [2]: [party_id#12427, transaction_id#12428]
Arguments: hashpartitioning(party_id#12427, 200)
```

(1076) PhotonShuffleMapStage

```
Input [2]: [party_id#12427, transaction_id#12428]
Arguments: ENSURE_REQUIREMENTS, [id=#151109]
```

(1077) PhotonShuffleExchangeSource

```
Input [2]: [party_id#12427, transaction_id#12428]
```

(1078) PhotonShuffledHashJoin

```
Left keys [1]: [party_id#12418]
Right keys [1]: [party_id#12427]
Join type: Inner
Join condition: None
```

(1079) PhotonProject

```
Input [7]: [party_name#12417, party_id#12418, company_id#12419, deleted_at#12420, updated_at#12421, party_id#12427, transaction_id#12428]
Arguments: [party_id#12418, party_name#12417, company_id#12419, deleted_at#12420, updated_at#12421, transaction_id#12428]
```

(1080) PhotonGroupingAgg

```
Input [6]: [party_id#12418, party_name#12417, company_id#12419, deleted_at#12420, updated_at#12421, transaction_id#12428]
Arguments: [party_name#12417, party_id#12418, company_id#12419, deleted_at#12420, transaction_id#12428, updated_at#12421],
[party_name#12417, party_id#12418, company_id#12419, deleted_at#12420, transaction_id#12428, updated_at#12421], false
```

(1081) PhotonShuffleExchangeSink
Input [6]: [party_name#12417, party_id#12418, company_id#12419, deleted_at#12420, transaction_id#12428, updated_at#12421]
Arguments: hashpartitioning(transaction_id#12428, 200)

(1082) PhotonShuffleMapStage
Input [6]: [party_name#12417, party_id#12418, company_id#12419, deleted_at#12420, transaction_id#12428, updated_at#12421]
Arguments: ENSURE_REQUIREMENTS, [id=#151119]

(1083) PhotonShuffleExchangeSource
Input [6]: [party_name#12417, party_id#12418, company_id#12419, deleted_at#12420, transaction_id#12428, updated_at#12421]

(1084) PhotonRowToColumnar
Input [7]: [county#12431, transaction_type#12432, fc_transaction_date#12433, fc_recorded_date#12434, fcdateupdated#12436, fctransactionid#12437, pdf_id#12438]

(1085) PhotonShuffleExchangeSink
Input [7]: [county#12431, transaction_type#12432, fc_transaction_date#12433, fc_recorded_date#12434, fcdateupdated#12436, fctransactionid#12437, pdf_id#12438]
Arguments: hashpartitioning(fctransactionid#12437, 200)

(1086) PhotonShuffleMapStage
Input [7]: [county#12431, transaction_type#12432, fc_transaction_date#12433, fc_recorded_date#12434, fcdateupdated#12436, fctransactionid#12437, pdf_id#12438]
Arguments: ENSURE_REQUIREMENTS, [id=#151124]

(1087) PhotonShuffleExchangeSource
Input [7]: [county#12431, transaction_type#12432, fc_transaction_date#12433, fc_recorded_date#12434, fcdateupdated#12436, fctransactionid#12437, pdf_id#12438]

(1088) PhotonShuffledHashJoin
Left keys [1]: [transaction_id#12428]
Right keys [1]: [fctransactionid#12437]
Join type: Inner
Join condition: None

(1089) PhotonProject
Input [13]: [party_name#12417, party_id#12418, company_id#12419, deleted_at#12420, transaction_id#12428, updated_at#12421, county#12431, transaction_type#12432, fc_transaction_date#12433, fc_recorded_date#12434, fcdateupdated#12436, fctransactionid#12437, pdf_id#12438]
Arguments: [party_name#12417, party_id#12418, company_id#12419, deleted_at#12420, county#12431, transaction_type#12432, fc_transaction_date#12433, fc_recorded_date#12434, greatest(fcdateupdated#12436, updated_at#12421) AS fcdateupdated#12477, fctransactionid#12437, pdf_id#12438]

(1090) PhotonGroupingAgg
Input [11]: [party_name#12417, party_id#12418, company_id#12419, deleted_at#12420, county#12431, transaction_type#12432, fc_transaction_date#12433, fc_recorded_date#12434, fcdateupdated#12477, fctransactionid#12437, pdf_id#12438]
Arguments: [party_name#12417, party_id#12418, company_id#12419, deleted_at#12420, county#12431, transaction_type#12432, fc_transaction_date#12433, fc_recorded_date#12434, fcdateupdated#12477, fctransactionid#12437, pdf_id#12438], [party_name#12417, party_id#12418, company_id#12419, deleted_at#12420, county#12431, transaction_type#12432, fc_transaction_date#12433, fc_recorded_date#12434, fcdateupdated#12477, fctransactionid#12437, pdf_id#12438], false

(1091) PhotonShuffleExchangeSink
Input [11]: [party_name#12417, party_id#12418, company_id#12419, deleted_at#12420, county#12431, transaction_type#12432, fc_transaction_date#12433, fc_recorded_date#12434, fcdateupdated#12477, fctransactionid#12437, pdf_id#12438]
Arguments: hashpartitioning(party_id#12418, 200)

(1092) PhotonShuffleMapStage
Input [11]: [party_name#12417, party_id#12418, company_id#12419, deleted_at#12420, county#12431, transaction_type#12432, fc_transaction_date#12433, fc_recorded_date#12434, fcdateupdated#12477, fctransactionid#12437, pdf_id#12438]
Arguments: ENSURE_REQUIREMENTS, [id=#151135]

(1093) PhotonShuffleExchangeSource
Input [11]: [party_name#12417, party_id#12418, company_id#12419, deleted_at#12420, county#12431, transaction_type#12432, fc_transaction_date#12433, fc_recorded_date#12434, fcdateupdated#12477, fctransactionid#12437, pdf_id#12438]

(1094) PhotonRowToColumnar
Input [2]: [party_id#12447, transaction_id#12448]

(1095) PhotonShuffleExchangeSink
Input [2]: [party_id#12447, transaction_id#12448]
Arguments: hashpartitioning(transaction_id#12448, 200)

(1096) PhotonShuffleMapStage
Input [2]: [party_id#12447, transaction_id#12448]
Arguments: ENSURE_REQUIREMENTS, [id=#151140]

(1097) PhotonShuffleExchangeSource
Input [2]: [party_id#12447, transaction_id#12448]

(1098) PhotonRowToColumnar
Input [1]: [fc_transaction_id#12451]

(1099) PhotonShuffleExchangeSink
Input [1]: [fc_transaction_id#12451]

Arguments: hashpartitioning(fc_transaction_id#12451, 200)

(1100) PhotonShuffleMapStage

Input [1]: [fc_transaction_id#12451]

Arguments: ENSURE_REQUIREMENTS, [id=#151145]

(1101) PhotonShuffleExchangeSource

Input [1]: [fc_transaction_id#12451]

(1102) PhotonShuffledHashJoin

Left keys [1]: [transaction_id#12448]

Right keys [1]: [fc_transaction_id#12451]

Join type: LeftSemi

Join condition: None

(1103) PhotonProject

Input [2]: [party_id#12447, transaction_id#12448]

Arguments: [party_id#12447]

(1104) PhotonGroupingAgg

Input [1]: [party_id#12447]

Arguments: [party_id#12447], [party_id#12447], false

(1105) PhotonShuffleExchangeSink

Input [1]: [party_id#12447]

Arguments: hashpartitioning(party_id#12447, 200)

(1106) PhotonShuffleMapStage

Input [1]: [party_id#12447]

Arguments: ENSURE_REQUIREMENTS, [id=#151155]

(1107) PhotonShuffleExchangeSource

Input [1]: [party_id#12447]

(1108) PhotonGroupingAgg

Input [1]: [party_id#12447]

Arguments: [party_id#12447], [party_id#12447], true

(1109) PhotonGroupingAgg

Input [1]: [party_id#12447]

Arguments: [party_id#12447], [party_id#12447], false

(1110) PhotonShuffleExchangeSink

Input [1]: [party_id#12447]

Arguments: hashpartitioning(party_id#12447, 200)

(1111) PhotonRowToColumnar

Input [2]: [party_id#12453, transaction_id#12454]

(1112) PhotonShuffleExchangeSink

Input [2]: [party_id#12453, transaction_id#12454]

Arguments: hashpartitioning(transaction_id#12454, 200)

(1113) PhotonShuffleMapStage

Input [2]: [party_id#12453, transaction_id#12454]

Arguments: ENSURE_REQUIREMENTS, [id=#151164]

(1114) PhotonShuffleExchangeSource

Input [2]: [party_id#12453, transaction_id#12454]

(1115) PhotonRowToColumnar

Input [1]: [fc_transaction_id#12457]

(1116) PhotonShuffleExchangeSink

Input [1]: [fc_transaction_id#12457]

Arguments: hashpartitioning(fc_transaction_id#12457, 200)

(1117) PhotonShuffleMapStage

Input [1]: [fc_transaction_id#12457]

Arguments: ENSURE_REQUIREMENTS, [id=#151169]

(1118) PhotonShuffleExchangeSource

Input [1]: [fc_transaction_id#12457]

(1119) PhotonShuffledHashJoin

Left keys [1]: [transaction_id#12454]

Right keys [1]: [fc_transaction_id#12457]

Join type: LeftSemi

Join condition: None

(1120) PhotonProject

Input [2]: [party_id#12453, transaction_id#12454]

Arguments: [party_id#12453]

(1121) PhotonGroupingAgg
Input [1]: [party_id#12453]
Arguments: [party_id#12453], [party_id#12453], false

(1122) PhotonShuffleExchangeSink
Input [1]: [party_id#12453]
Arguments: hashpartitioning(party_id#12453, 200)

(1123) PhotonShuffleMapStage
Input [1]: [party_id#12453]
Arguments: ENSURE_REQUIREMENTS, [id=#151179]

(1124) PhotonShuffleExchangeSource
Input [1]: [party_id#12453]

(1125) PhotonGroupingAgg
Input [1]: [party_id#12453]
Arguments: [party_id#12453], [party_id#12453], true

(1126) PhotonGroupingAgg
Input [1]: [party_id#12453]
Arguments: [party_id#12453], [party_id#12453], false

(1127) PhotonShuffleExchangeSink
Input [1]: [party_id#12453]
Arguments: hashpartitioning(party_id#12453, 200)

(1128) PhotonUnionShuffleExchangeSink

(1129) PhotonUnionShuffleMapStage
Input [1]: [party_id#12447]
Arguments: ENSURE_REQUIREMENTS, [id=#151192]

(1130) PhotonShuffleExchangeSource
Input [1]: [party_id#12447]

(1131) PhotonShuffledHashJoin
Left keys [1]: [party_id#12418]
Right keys [1]: [party_id#12447]
Join type: LeftSemi
Join condition: None

(1132) PhotonGroupingAgg
Input [11]: [party_name#12417, party_id#12418, company_id#12419, deleted_at#12420, county#12431, transaction_type#12432, fc_transaction_date#12433, fc_recorded_date#12434, fcdateupdated#12477, fctransactionid#12437, pdf_id#12438]
Arguments: [party_name#12417, party_id#12418, company_id#12419, deleted_at#12420, county#12431, transaction_type#12432, fc_transaction_date#12433, fc_recorded_date#12434, fcdateupdated#12477, fctransactionid#12437, pdf_id#12438], [party_name#12417, party_id#12418, company_id#12419, deleted_at#12420, county#12431, transaction_type#12432, fc_transaction_date#12433, fc_recorded_date#12434, fcdateupdated#12477, fctransactionid#12437, pdf_id#12438], false

(1133) PhotonShuffleExchangeSink
Input [11]: [party_name#12417, party_id#12418, company_id#12419, deleted_at#12420, county#12431, transaction_type#12432, fc_transaction_date#12433, fc_recorded_date#12434, fcdateupdated#12477, fctransactionid#12437, pdf_id#12438]
Arguments: hashpartitioning(pdf_id#12438, 200)

(1134) PhotonShuffleMapStage
Input [11]: [party_name#12417, party_id#12418, company_id#12419, deleted_at#12420, county#12431, transaction_type#12432, fc_transaction_date#12433, fc_recorded_date#12434, fcdateupdated#12477, fctransactionid#12437, pdf_id#12438]
Arguments: ENSURE_REQUIREMENTS, [id=#151205]

(1135) PhotonShuffleExchangeSource
Input [11]: [party_name#12417, party_id#12418, company_id#12419, deleted_at#12420, county#12431, transaction_type#12432, fc_transaction_date#12433, fc_recorded_date#12434, fcdateupdated#12477, fctransactionid#12437, pdf_id#12438]

(1136) PhotonRowToColumnar
Input [1]: [pdf_id#12459]

(1137) PhotonShuffleExchangeSink
Input [1]: [pdf_id#12459]
Arguments: hashpartitioning(pdf_id#12459, 200)

(1138) PhotonShuffleMapStage
Input [1]: [pdf_id#12459]
Arguments: ENSURE_REQUIREMENTS, [id=#151210]

(1139) PhotonShuffleExchangeSource
Input [1]: [pdf_id#12459]

(1140) PhotonShuffledHashJoin
Left keys [1]: [pdf_id#12438]
Right keys [1]: [pdf_id#12459]
Join type: LeftOuter

Join condition: None

(1141) PhotonProject

Input [12]: [party_name#12417, party_id#12418, company_id#12419, deleted_at#12420, county#12431, transaction_type#12432, fc_transaction_date#12433, fc_recorded_date#12434, fcdateupdated#12477, fctransactionid#12437, pdf_id#12438, pdf_id#12459]
Arguments: [party_name#12417, party_id#12418, company_id#12419, deleted_at#12420, county#12431, transaction_type#12432, fc_transaction_date#12433, fc_recorded_date#12434, fcdateupdated#12477, fctransactionid#12437, ((isnotnull(pdf_id#12459) AND (transaction_type#12432 = MORTGAGE)) <=> true) AS has_pdf#12509]

(1142) PhotonGroupingAgg

Input [11]: [party_name#12417, party_id#12418, company_id#12419, deleted_at#12420, county#12431, transaction_type#12432, fc_transaction_date#12433, fc_recorded_date#12434, fcdateupdated#12477, fctransactionid#12437, has_pdf#12509]
Arguments: [party_name#12417, party_id#12418, company_id#12419, deleted_at#12420, county#12431, transaction_type#12432, fc_transaction_date#12433, fc_recorded_date#12434, fcdateupdated#12477, fctransactionid#12437, has_pdf#12509], [party_name#12417, party_id#12418, company_id#12419, deleted_at#12420, county#12431, transaction_type#12432, fc_transaction_date#12433, fc_recorded_date#12434, fcdateupdated#12477, fctransactionid#12437, has_pdf#12509], false

(1143) PhotonShuffleExchangeSink

Input [11]: [party_name#12417, party_id#12418, company_id#12419, deleted_at#12420, county#12431, transaction_type#12432, fc_transaction_date#12433, fc_recorded_date#12434, fcdateupdated#12477, fctransactionid#12437, has_pdf#12509]
Arguments: hashpartitioning(party_name#12417, party_id#12418, company_id#12419, deleted_at#12420, county#12431, transaction_type#12432, fc_transaction_date#12433, fc_recorded_date#12434, fcdateupdated#12477, fctransactionid#12437, has_pdf#12509, 200)

(1144) PhotonShuffleMapStage

Input [11]: [party_name#12417, party_id#12418, company_id#12419, deleted_at#12420, county#12431, transaction_type#12432, fc_transaction_date#12433, fc_recorded_date#12434, fcdateupdated#12477, fctransactionid#12437, has_pdf#12509]
Arguments: ENSURE_REQUIREMENTS, [id=#151221]

(1145) PhotonShuffleExchangeSource

Input [11]: [party_name#12417, party_id#12418, company_id#12419, deleted_at#12420, county#12431, transaction_type#12432, fc_transaction_date#12433, fc_recorded_date#12434, fcdateupdated#12477, fctransactionid#12437, has_pdf#12509]

(1146) PhotonGroupingAgg

Input [11]: [party_name#12417, party_id#12418, company_id#12419, deleted_at#12420, county#12431, transaction_type#12432, fc_transaction_date#12433, fc_recorded_date#12434, fcdateupdated#12477, fctransactionid#12437, has_pdf#12509]
Arguments: [party_name#12417, party_id#12418, company_id#12419, deleted_at#12420, county#12431, transaction_type#12432, fc_transaction_date#12433, fc_recorded_date#12434, fcdateupdated#12477, fctransactionid#12437, has_pdf#12509], [party_name#12417, party_id#12418, company_id#12419, deleted_at#12420, county#12431, transaction_type#12432, fc_transaction_date#12433, fc_recorded_date#12434, fcdateupdated#12477, fctransactionid#12437, has_pdf#12509], true

(1147) PhotonGroupingAgg

Input [11]: [party_name#12417, party_id#12418, company_id#12419, deleted_at#12420, county#12431, transaction_type#12432, fc_transaction_date#12433, fc_recorded_date#12434, fcdateupdated#12477, fctransactionid#12437, has_pdf#12509]
Arguments: [party_name#12417, party_id#12418, company_id#12419, deleted_at#12420, county#12431, transaction_type#12432, fc_transaction_date#12433, fc_recorded_date#12434, fcdateupdated#12477, fctransactionid#12437, has_pdf#12509], [party_name#12417, party_id#12418, company_id#12419, deleted_at#12420, county#12431, transaction_type#12432, fc_transaction_date#12433, fc_recorded_date#12434, fcdateupdated#12477, fctransactionid#12437, has_pdf#12509], false

(1148) PhotonShuffleExchangeSink

Input [11]: [party_name#12417, party_id#12418, company_id#12419, deleted_at#12420, county#12431, transaction_type#12432, fc_transaction_date#12433, fc_recorded_date#12434, fcdateupdated#12477, fctransactionid#12437, has_pdf#12509]
Arguments: hashpartitioning(party_name#12417, party_id#12418, company_id#12419, deleted_at#12420, county#12431, transaction_type#12432, fc_transaction_date#12433, fc_recorded_date#12434, fcdateupdated#12477, fctransactionid#12437, has_pdf#12509, 200)

(1149) PhotonRowToColumnar

Input [5]: [party_name#12526, party_id#12527, company_id#12528, deleted_at#12529, updated_at#12530]

(1150) PhotonShuffleExchangeSink

Input [5]: [party_name#12526, party_id#12527, company_id#12528, deleted_at#12529, updated_at#12530]
Arguments: hashpartitioning(party_id#12527, 200)

(1151) PhotonShuffleMapStage

Input [5]: [party_name#12526, party_id#12527, company_id#12528, deleted_at#12529, updated_at#12530]
Arguments: ENSURE_REQUIREMENTS, [id=#151230]

(1152) PhotonShuffleExchangeSource

Input [5]: [party_name#12526, party_id#12527, company_id#12528, deleted_at#12529, updated_at#12530]

(1153) PhotonRowToColumnar

Input [2]: [party_id#12536, transaction_id#12537]

(1154) PhotonShuffleExchangeSink

Input [2]: [party_id#12536, transaction_id#12537]
Arguments: hashpartitioning(party_id#12536, 200)

(1155) PhotonShuffleMapStage

Input [2]: [party_id#12536, transaction_id#12537]
Arguments: ENSURE_REQUIREMENTS, [id=#151235]

(1156) PhotonShuffleExchangeSource

Input [2]: [party_id#12536, transaction_id#12537]

(1157) PhotonShuffledHashJoin

Left keys [1]: [party_id#12527]
Right keys [1]: [party_id#12536]
Join type: Inner
Join condition: None

(1158) PhotonProject

Input [7]: [party_name#12526, party_id#12527, company_id#12528, deleted_at#12529, updated_at#12530, party_id#12536, transaction_id#12537]
Arguments: [party_id#12527, party_name#12526, company_id#12528, deleted_at#12529, updated_at#12530, transaction_id#12537]

(1159) PhotonGroupingAgg

Input [6]: [party_id#12527, party_name#12526, company_id#12528, deleted_at#12529, updated_at#12530, transaction_id#12537]
Arguments: [party_name#12526, party_id#12527, company_id#12528, deleted_at#12529, transaction_id#12537, updated_at#12530], [party_name#12526, party_id#12527, company_id#12528, deleted_at#12529, transaction_id#12537, updated_at#12530], false

(1160) PhotonShuffleExchangeSink

Input [6]: [party_name#12526, party_id#12527, company_id#12528, deleted_at#12529, transaction_id#12537, updated_at#12530]
Arguments: hashpartitioning(transaction_id#12537, 200)

(1161) PhotonShuffleMapStage

Input [6]: [party_name#12526, party_id#12527, company_id#12528, deleted_at#12529, transaction_id#12537, updated_at#12530]
Arguments: ENSURE_REQUIREMENTS, [id=#151245]

(1162) PhotonShuffleExchangeSource

Input [6]: [party_name#12526, party_id#12527, company_id#12528, deleted_at#12529, transaction_id#12537, updated_at#12530]

(1163) PhotonRowToColumnar

Input [7]: [county#12540, transaction_type#12541, fc_transaction_date#12542, fc_recorded_date#12543, fcdateupdated#12545, fctransactionid#12546, pdf_id#12547]

(1164) PhotonShuffleExchangeSink

Input [7]: [county#12540, transaction_type#12541, fc_transaction_date#12542, fc_recorded_date#12543, fcdateupdated#12545, fctransactionid#12546, pdf_id#12547]
Arguments: hashpartitioning(fctransactionid#12546, 200)

(1165) PhotonShuffleMapStage

Input [7]: [county#12540, transaction_type#12541, fc_transaction_date#12542, fc_recorded_date#12543, fcdateupdated#12545, fctransactionid#12546, pdf_id#12547]
Arguments: ENSURE_REQUIREMENTS, [id=#151250]

(1166) PhotonShuffleExchangeSource

Input [7]: [county#12540, transaction_type#12541, fc_transaction_date#12542, fc_recorded_date#12543, fcdateupdated#12545, fctransactionid#12546, pdf_id#12547]

(1167) PhotonShuffledHashJoin

Left keys [1]: [transaction_id#12537]
Right keys [1]: [fctransactionid#12546]
Join type: Inner
Join condition: None

(1168) PhotonProject

Input [13]: [party_name#12526, party_id#12527, company_id#12528, deleted_at#12529, transaction_id#12537, updated_at#12530, county#12540, transaction_type#12541, fc_transaction_date#12542, fc_recorded_date#12543, fcdateupdated#12545, fctransactionid#12546, pdf_id#12547]
Arguments: [party_name#12526, party_id#12527, company_id#12528, deleted_at#12529, county#12540, transaction_type#12541, fc_transaction_date#12542, fc_recorded_date#12543, greatest(fcdateupdated#12545, updated_at#12530) AS fcdateupdated#12587, fctransactionid#12546, pdf_id#12547]

(1169) PhotonGroupingAgg

Input [11]: [party_name#12526, party_id#12527, company_id#12528, deleted_at#12529, county#12540, transaction_type#12541, fc_transaction_date#12542, fc_recorded_date#12543, fcdateupdated#12587, fctransactionid#12546, pdf_id#12547]
Arguments: [party_name#12526, party_id#12527, company_id#12528, deleted_at#12529, county#12540, transaction_type#12541, fc_transaction_date#12542, fc_recorded_date#12543, fcdateupdated#12587, fctransactionid#12546, pdf_id#12547], [party_name#12526, party_id#12527, company_id#12528, deleted_at#12529, county#12540, transaction_type#12541, fc_transaction_date#12542, fc_recorded_date#12543, fcdateupdated#12587, fctransactionid#12546, pdf_id#12547], false

(1170) PhotonShuffleExchangeSink

Input [11]: [party_name#12526, party_id#12527, company_id#12528, deleted_at#12529, county#12540, transaction_type#12541, fc_transaction_date#12542, fc_recorded_date#12543, fcdateupdated#12587, fctransactionid#12546, pdf_id#12547]
Arguments: hashpartitioning(party_id#12527, 200)

(1171) PhotonShuffleMapStage

Input [11]: [party_name#12526, party_id#12527, company_id#12528, deleted_at#12529, county#12540, transaction_type#12541, fc_transaction_date#12542, fc_recorded_date#12543, fcdateupdated#12587, fctransactionid#12546, pdf_id#12547]
Arguments: ENSURE_REQUIREMENTS, [id=#151261]

(1172) PhotonShuffleExchangeSource

Input [11]: [party_name#12526, party_id#12527, company_id#12528, deleted_at#12529, county#12540, transaction_type#12541, fc_transaction_date#12542, fc_recorded_date#12543, fcdateupdated#12587, fctransactionid#12546, pdf_id#12547]

(1173) PhotonRowToColumnar

Input [2]: [party_id#12556, transaction_id#12557]

(1174) PhotonShuffleExchangeSink

Input [2]: [party_id#12556, transaction_id#12557]

Arguments: hashpartitioning(transaction_id#12557, 200)

(1175) PhotonShuffleMapStage
Input [2]: [party_id#12556, transaction_id#12557]
Arguments: ENSURE_REQUIREMENTS, [id=#151266]

(1176) PhotonShuffleExchangeSource
Input [2]: [party_id#12556, transaction_id#12557]

(1177) PhotonRowToColumnar
Input [1]: [fc_transaction_id#12560]

(1178) PhotonShuffleExchangeSink
Input [1]: [fc_transaction_id#12560]
Arguments: hashpartitioning(fc_transaction_id#12560, 200)

(1179) PhotonShuffleMapStage
Input [1]: [fc_transaction_id#12560]
Arguments: ENSURE_REQUIREMENTS, [id=#151271]

(1180) PhotonShuffleExchangeSource
Input [1]: [fc_transaction_id#12560]

(1181) PhotonShuffledHashJoin
Left keys [1]: [transaction_id#12557]
Right keys [1]: [fc_transaction_id#12560]
Join type: LeftSemi
Join condition: None

(1182) PhotonProject
Input [2]: [party_id#12556, transaction_id#12557]
Arguments: [party_id#12556]

(1183) PhotonGroupingAgg
Input [1]: [party_id#12556]
Arguments: [party_id#12556], [party_id#12556], false

(1184) PhotonShuffleExchangeSink
Input [1]: [party_id#12556]
Arguments: hashpartitioning(party_id#12556, 200)

(1185) PhotonShuffleMapStage
Input [1]: [party_id#12556]
Arguments: ENSURE_REQUIREMENTS, [id=#151281]

(1186) PhotonShuffleExchangeSource
Input [1]: [party_id#12556]

(1187) PhotonGroupingAgg
Input [1]: [party_id#12556]
Arguments: [party_id#12556], [party_id#12556], true

(1188) PhotonGroupingAgg
Input [1]: [party_id#12556]
Arguments: [party_id#12556], [party_id#12556], false

(1189) PhotonShuffleExchangeSink
Input [1]: [party_id#12556]
Arguments: hashpartitioning(party_id#12556, 200)

(1190) PhotonRowToColumnar
Input [2]: [party_id#12562, transaction_id#12563]

(1191) PhotonShuffleExchangeSink
Input [2]: [party_id#12562, transaction_id#12563]
Arguments: hashpartitioning(transaction_id#12563, 200)

(1192) PhotonShuffleMapStage
Input [2]: [party_id#12562, transaction_id#12563]
Arguments: ENSURE_REQUIREMENTS, [id=#151290]

(1193) PhotonShuffleExchangeSource
Input [2]: [party_id#12562, transaction_id#12563]

(1194) PhotonRowToColumnar
Input [1]: [fc_transaction_id#12566]

(1195) PhotonShuffleExchangeSink
Input [1]: [fc_transaction_id#12566]
Arguments: hashpartitioning(fc_transaction_id#12566, 200)

(1196) PhotonShuffleMapStage
Input [1]: [fc_transaction_id#12566]

Arguments: ENSURE_REQUIREMENTS, [id=#151295]

(1197) PhotonShuffleExchangeSource
Input [1]: [fc_transaction_id#12566]

(1198) PhotonShuffledHashJoin
Left keys [1]: [transaction_id#12563]
Right keys [1]: [fc_transaction_id#12566]
Join type: LeftSemi
Join condition: None

(1199) PhotonProject
Input [2]: [party_id#12562, transaction_id#12563]
Arguments: [party_id#12562]

(1200) PhotonGroupingAgg
Input [1]: [party_id#12562]
Arguments: [party_id#12562], [party_id#12562], false

(1201) PhotonShuffleExchangeSink
Input [1]: [party_id#12562]
Arguments: hashpartitioning(party_id#12562, 200)

(1202) PhotonShuffleMapStage
Input [1]: [party_id#12562]
Arguments: ENSURE_REQUIREMENTS, [id=#151305]

(1203) PhotonShuffleExchangeSource
Input [1]: [party_id#12562]

(1204) PhotonGroupingAgg
Input [1]: [party_id#12562]
Arguments: [party_id#12562], [party_id#12562], true

(1205) PhotonGroupingAgg
Input [1]: [party_id#12562]
Arguments: [party_id#12562], [party_id#12562], false

(1206) PhotonShuffleExchangeSink
Input [1]: [party_id#12562]
Arguments: hashpartitioning(party_id#12562, 200)

(1207) PhotonUnionShuffleExchangeSink

(1208) PhotonUnionShuffleMapStage
Input [1]: [party_id#12556]
Arguments: ENSURE_REQUIREMENTS, [id=#151318]

(1209) PhotonShuffleExchangeSource
Input [1]: [party_id#12556]

(1210) PhotonShuffledHashJoin
Left keys [1]: [party_id#12527]
Right keys [1]: [party_id#12556]
Join type: LeftSemi
Join condition: None

(1211) PhotonGroupingAgg
Input [11]: [party_name#12526, party_id#12527, company_id#12528, deleted_at#12529, county#12540, transaction_type#12541, fc_transaction_date#12542, fc_recorded_date#12543, fcdateupdated#12587, fctransactionid#12546, pdf_id#12547]
Arguments: [party_name#12526, party_id#12527, company_id#12528, deleted_at#12529, county#12540, transaction_type#12541, fc_transaction_date#12542, fc_recorded_date#12543, fcdateupdated#12587, fctransactionid#12546, pdf_id#12547], [party_name#12526, party_id#12527, company_id#12528, deleted_at#12529, county#12540, transaction_type#12541, fc_transaction_date#12542, fc_recorded_date#12543, fcdateupdated#12587, fctransactionid#12546, pdf_id#12547], false

(1212) PhotonShuffleExchangeSink
Input [11]: [party_name#12526, party_id#12527, company_id#12528, deleted_at#12529, county#12540, transaction_type#12541, fc_transaction_date#12542, fc_recorded_date#12543, fcdateupdated#12587, fctransactionid#12546, pdf_id#12547]
Arguments: hashpartitioning(pdf_id#12547, 200)

(1213) PhotonShuffleMapStage
Input [11]: [party_name#12526, party_id#12527, company_id#12528, deleted_at#12529, county#12540, transaction_type#12541, fc_transaction_date#12542, fc_recorded_date#12543, fcdateupdated#12587, fctransactionid#12546, pdf_id#12547]
Arguments: ENSURE_REQUIREMENTS, [id=#151331]

(1214) PhotonShuffleExchangeSource
Input [11]: [party_name#12526, party_id#12527, company_id#12528, deleted_at#12529, county#12540, transaction_type#12541, fc_transaction_date#12542, fc_recorded_date#12543, fcdateupdated#12587, fctransactionid#12546, pdf_id#12547]

(1215) PhotonRowToColumnar
Input [1]: [pdf_id#12568]

(1216) PhotonShuffleExchangeSink

Input [1]: [pdf_id#12568]
Arguments: hashpartitioning(pdf_id#12568, 200)

(1217) PhotonShuffleMapStage
Input [1]: [pdf_id#12568]
Arguments: ENSURE_REQUIREMENTS, [id=#151336]

(1218) PhotonShuffleExchangeSource
Input [1]: [pdf_id#12568]

(1219) PhotonShuffledHashJoin
Left keys [1]: [pdf_id#12547]
Right keys [1]: [pdf_id#12568]
Join type: LeftOuter
Join condition: None

(1220) PhotonProject
Input [12]: [party_name#12526, party_id#12527, company_id#12528, deleted_at#12529, county#12540, transaction_type#12541, fc_transaction_date#12542, fc_recorded_date#12543, fcdateupdated#12587, fctransactionid#12546, pdf_id#12547, pdf_id#12568]
Arguments: [party_name#12526, party_id#12527, company_id#12528, deleted_at#12529, county#12540, transaction_type#12541, fc_transaction_date#12542, fc_recorded_date#12543, fcdateupdated#12587, fctransactionid#12546, ((isnotnull(pdf_id#12568) AND (transaction_type#12541 = MORTGAGE)) <=> true) AS has_pdf#12621]

(1221) PhotonGroupingAgg
Input [11]: [party_name#12526, party_id#12527, company_id#12528, deleted_at#12529, county#12540, transaction_type#12541, fc_transaction_date#12542, fc_recorded_date#12543, fcdateupdated#12587, fctransactionid#12546, has_pdf#12621]
Arguments: [party_name#12526, party_id#12527, company_id#12528, deleted_at#12529, county#12540, transaction_type#12541, fc_transaction_date#12542, fc_recorded_date#12543, fcdateupdated#12587, fctransactionid#12546, has_pdf#12621], [party_name#12526, party_id#12527, company_id#12528, deleted_at#12529, county#12540, transaction_type#12541, fc_transaction_date#12542, fc_recorded_date#12543, fcdateupdated#12587, fctransactionid#12546, has_pdf#12621], false

(1222) PhotonShuffleExchangeSink
Input [11]: [party_name#12526, party_id#12527, company_id#12528, deleted_at#12529, county#12540, transaction_type#12541, fc_transaction_date#12542, fc_recorded_date#12543, fcdateupdated#12587, fctransactionid#12546, has_pdf#12621]
Arguments: hashpartitioning(party_name#12526, party_id#12527, company_id#12528, deleted_at#12529, county#12540, transaction_type#12541, fc_transaction_date#12542, fc_recorded_date#12543, fcdateupdated#12587, fctransactionid#12546, has_pdf#12621, 200)

(1223) PhotonShuffleMapStage
Input [11]: [party_name#12526, party_id#12527, company_id#12528, deleted_at#12529, county#12540, transaction_type#12541, fc_transaction_date#12542, fc_recorded_date#12543, fcdateupdated#12587, fctransactionid#12546, has_pdf#12621]
Arguments: ENSURE_REQUIREMENTS, [id=#151347]

(1224) PhotonShuffleExchangeSource
Input [11]: [party_name#12526, party_id#12527, company_id#12528, deleted_at#12529, county#12540, transaction_type#12541, fc_transaction_date#12542, fc_recorded_date#12543, fcdateupdated#12587, fctransactionid#12546, has_pdf#12621]

(1225) PhotonGroupingAgg
Input [11]: [party_name#12526, party_id#12527, company_id#12528, deleted_at#12529, county#12540, transaction_type#12541, fc_transaction_date#12542, fc_recorded_date#12543, fcdateupdated#12587, fctransactionid#12546, has_pdf#12621]
Arguments: [party_name#12526, party_id#12527, company_id#12528, deleted_at#12529, county#12540, transaction_type#12541, fc_transaction_date#12542, fc_recorded_date#12543, fcdateupdated#12587, fctransactionid#12546, has_pdf#12621], [party_name#12526, party_id#12527, company_id#12528, deleted_at#12529, county#12540, transaction_type#12541, fc_transaction_date#12542, fc_recorded_date#12543, fcdateupdated#12587, fctransactionid#12546, has_pdf#12621], true

(1226) PhotonGroupingAgg
Input [11]: [party_name#12526, party_id#12527, company_id#12528, deleted_at#12529, county#12540, transaction_type#12541, fc_transaction_date#12542, fc_recorded_date#12543, fcdateupdated#12587, fctransactionid#12546, has_pdf#12621]
Arguments: [party_name#12526, party_id#12527, company_id#12528, deleted_at#12529, county#12540, transaction_type#12541, fc_transaction_date#12542, fc_recorded_date#12543, fcdateupdated#12587, fctransactionid#12546, has_pdf#12621], [party_name#12526, party_id#12527, company_id#12528, deleted_at#12529, county#12540, transaction_type#12541, fc_transaction_date#12542, fc_recorded_date#12543, fcdateupdated#12587, fctransactionid#12546, has_pdf#12621], false

(1227) PhotonShuffleExchangeSink
Input [11]: [party_name#12526, party_id#12527, company_id#12528, deleted_at#12529, county#12540, transaction_type#12541, fc_transaction_date#12542, fc_recorded_date#12543, fcdateupdated#12587, fctransactionid#12546, has_pdf#12621]
Arguments: hashpartitioning(party_name#12526, party_id#12527, company_id#12528, deleted_at#12529, county#12540, transaction_type#12541, fc_transaction_date#12542, fc_recorded_date#12543, fcdateupdated#12587, fctransactionid#12546, has_pdf#12621, 200)

(1228) PhotonUnionShuffleExchangeSink

(1229) PhotonUnionShuffleMapStage
Input [11]: [party_name#12417, party_id#12418, company_id#12419, deleted_at#12420, county#12431, transaction_type#12432, fc_transaction_date#12433, fc_recorded_date#12434, fcdateupdated#12477, fctransactionid#12437, has_pdf#12509]
Arguments: ENSURE_REQUIREMENTS, [id=#151360]

(1230) PhotonShuffleExchangeSource
Input [11]: [party_name#12417, party_id#12418, company_id#12419, deleted_at#12420, county#12431, transaction_type#12432, fc_transaction_date#12433, fc_recorded_date#12434, fcdateupdated#12477, fctransactionid#12437, has_pdf#12509]

(1231) PhotonGroupingAgg
Input [11]: [party_name#12417, party_id#12418, company_id#12419, deleted_at#12420, county#12431, transaction_type#12432, fc_transaction_date#12433, fc_recorded_date#12434, fcdateupdated#12477, fctransactionid#12437, has_pdf#12509]
Arguments: [party_name#12417, party_id#12418, company_id#12419, deleted_at#12420, county#12431, transaction_type#12432,

fc_transaction_date#12433, fc_recorded_date#12434, fcdateupdated#12477, fctransactionid#12437, has_pdf#12509], [party_name#12417, party_id#12418, company_id#12419, deleted_at#12420, transaction_type#12432, has_pdf#12509], true

(1232) PhotonGroupingAgg

Input [6]: [party_name#12417, party_id#12418, company_id#12419, deleted_at#12420, transaction_type#12432, has_pdf#12509]
Arguments: [party_name#12417, party_id#12418, company_id#12419, Transaction_Type#12432], [partial_min(deleted_at#12420) AS min#14201, partial_max(has_pdf#12509) AS max#14203, partial_count(1) AS count#14205L], [min#14200, max#14202, count#14204L], [party_name#12417, party_id#12418, company_id#12419, Transaction_Type#12432, min#14201, max#14203, count#14205L], false

(1233) PhotonShuffleExchangeSink

Input [7]: [party_name#12417, party_id#12418, company_id#12419, Transaction_Type#12432, min#14201, max#14203, count#14205L]
Arguments: hashpartitioning(party_name#12417, party_id#12418, company_id#12419, Transaction_Type#12432, 200)

(1234) PhotonShuffleMapStage

Input [7]: [party_name#12417, party_id#12418, company_id#12419, Transaction_Type#12432, min#14201, max#14203, count#14205L]
Arguments: ENSURE_REQUIREMENTS, [id=#151368]

(1235) PhotonShuffleExchangeSource

Input [7]: [party_name#12417, party_id#12418, company_id#12419, Transaction_Type#12432, min#14201, max#14203, count#14205L]

(1236) PhotonGroupingAgg

Input [7]: [party_name#12417, party_id#12418, company_id#12419, Transaction_Type#12432, min#14201, max#14203, count#14205L]
Arguments: [party_name#12417, party_id#12418, company_id#12419, Transaction_Type#12432], [finalmerge_min(merge min#14201) AS min(deleted_at#12420)#14059, finalmerge_max(merge max#14203) AS max(has_pdf#12509)#14060, finalmerge_count(merge count#14205L) AS count(1)#14046L], [min(deleted_at#12420)#14059, max(has_pdf#12509)#14060, count(1)#14046L], [party_name#12417, party_id#12418, company_id#12419, min(deleted_at#12420)#14059 AS deleted_at#12639, max(has_pdf#12509)#14060 AS has_pdf#12640, CASE WHEN (Transaction_Type#12432 = MORTGAGE) THEN count(1)#14046L END AS Mortgage Transactions#12641L, CASE WHEN (Transaction_Type#12432 = DEED) THEN count(1)#14046L END AS Deed Transactions#12642L, CASE WHEN (Transaction_Type#12432 = RELEASE) THEN count(1)#14046L END AS Satisfaction of Mortgage Transactions#12643L, CASE WHEN (Transaction_Type#12432 = ASSIGNMENT) THEN count(1)#14046L END AS Assignment of Mortgage Transactions#12644L, CASE WHEN (Transaction_Type#12432 = LIS PENDENS) THEN count(1)#14046L END AS lis_pendens_transactions#12645L, CASE WHEN (Transaction_Type#12432 = JUDGMENT) THEN count(1)#14046L END AS judgment_transactions#12646L, CASE WHEN (Transaction_Type#12432 = LOAN MODIFICATION) THEN count(1)#14046L END AS loan_modification_transactions#12647L], true

(1237) PhotonGroupingAgg

Input [12]: [party_name#12417, party_id#12418, company_id#12419, deleted_at#12639, has_pdf#12640, Mortgage Transactions#12641L, Deed Transactions#12642L, Satisfaction of Mortgage Transactions#12643L, Assignment of Mortgage Transactions#12644L, lis_pendens_transactions#12645L, judgment_transactions#12646L, loan_modification_transactions#12647L]
Arguments: [party_name#12417, party_id#12418, company_id#12419], [partial_min(deleted_at#12639) AS min#14183, partial_max(has_pdf#12640) AS max#14185, partial_sum(Mortgage Transactions#12641L) AS sum#14187L, partial_sum(Deed Transactions#12642L) AS sum#14189L, partial_sum(Satisfaction of Mortgage Transactions#12643L) AS sum#14191L, partial_sum(Assignment of Mortgage Transactions#12644L) AS sum#14193L, partial_sum(lis_pendens_transactions#12645L) AS sum#14195L, partial_sum(judgment_transactions#12646L) AS sum#14197L, partial_sum(loan_modification_transactions#12647L) AS sum#14199L], [min#14182, max#14184, sum#14186L, sum#14188L, sum#14190L, sum#14192L, sum#14194L, sum#14196L, sum#14198L], [party_name#12417, party_id#12418, company_id#12419, min#14183, max#14185, sum#14187L, sum#14189L, sum#14191L, sum#14193L, sum#14195L, sum#14197L, sum#14199L], false

(1238) PhotonShuffleExchangeSink

Input [12]: [party_name#12417, party_id#12418, company_id#12419, min#14183, max#14185, sum#14187L, sum#14189L, sum#14191L, sum#14193L, sum#14195L, sum#14197L, sum#14199L]
Arguments: hashpartitioning(party_name#12417, party_id#12418, company_id#12419, 200)

(1239) PhotonShuffleMapStage

Input [12]: [party_name#12417, party_id#12418, company_id#12419, min#14183, max#14185, sum#14187L, sum#14189L, sum#14191L, sum#14193L, sum#14195L, sum#14197L, sum#14199L]
Arguments: ENSURE_REQUIREMENTS, [id=#151376]

(1240) PhotonShuffleExchangeSource

Input [12]: [party_name#12417, party_id#12418, company_id#12419, min#14183, max#14185, sum#14187L, sum#14189L, sum#14191L, sum#14193L, sum#14195L, sum#14197L, sum#14199L]

(1241) PhotonGroupingAgg

Input [12]: [party_name#12417, party_id#12418, company_id#12419, min#14183, max#14185, sum#14187L, sum#14189L, sum#14191L, sum#14193L, sum#14195L, sum#14197L, sum#14199L]
Arguments: [party_name#12417, party_id#12418, company_id#12419], [finalmerge_min(merge min#14183) AS min(deleted_at#12639)#14068, finalmerge_max(merge max#14185) AS max(has_pdf#12640)#14069, finalmerge_sum(merge sum#14187L) AS sum(Mortgage Transactions#12641L)#14070L, finalmerge_sum(merge sum#14189L) AS sum(Deed Transactions#12642L)#14071L, finalmerge_sum(merge sum#14191L) AS sum(Satisfaction of Mortgage Transactions#12643L)#14072L, finalmerge_sum(merge sum#14193L) AS sum(Assignment of Mortgage Transactions#12644L)#14073L, finalmerge_sum(merge sum#14195L) AS sum(lis_pendens_transactions#12645L)#14074L, finalmerge_sum(merge sum#14197L) AS sum(judgment_transactions#12646L)#14075L, finalmerge_sum(merge sum#14199L) AS sum(loan_modification_transactions#12647L)#14076L], [min(deleted_at#12639)#14068, max(has_pdf#12640)#14069, sum(Mortgage Transactions#12641L)#14070L, sum(Deed Transactions#12642L)#14071L, sum(Satisfaction of Mortgage Transactions#12643L)#14072L, sum(Assignment of Mortgage Transactions#12644L)#14073L, sum(lis_pendens_transactions#12645L)#14074L, sum(judgment_transactions#12646L)#14075L, sum(loan_modification_transactions#12647L)#14076L], [party_name#12417, party_id#12418, company_id#12419, min(deleted_at#12639)#14068 AS deleted_at#12648, max(has_pdf#12640)#14069 AS has_pdf#12649, sum(Mortgage Transactions#12641L)#14070L AS Mortgage Transactions#12650L, sum(Deed Transactions#12642L)#14071L AS Deed Transactions#12651L, sum(Satisfaction of Mortgage Transactions#12643L)#14072L AS Satisfaction of Mortgage Transactions#12652L, sum(Assignment of Mortgage Transactions#12644L)#14073L AS Assignment of Mortgage Transactions#12653L, sum(lis_pendens_transactions#12645L)#14074L AS lis_pendens_transactions#12654L, sum(judgment_transactions#12646L)#14075L AS judgment_transactions#12655L, sum(loan_modification_transactions#12647L)#14076L AS loan_modification_transactions#12656L], true

(1242) PhotonLocalLimit

Input [12]: [party_name#12417, party_id#12418, company_id#12419, deleted_at#12648, has_pdf#12649, Mortgage Transactions#12650L, Deed Transactions#12651L, Satisfaction of Mortgage Transactions#12652L, Assignment of Mortgage Transactions#12653L, lis_pendens_transactions#12654L, judgment_transactions#12655L, loan_modification_transactions#12656L]
Arguments: 21

(1243) PhotonShuffleExchangeSink
Input [12]: [party_name#12417, party_id#12418, company_id#12419, deleted_at#12648, has_pdf#12649, Mortgage Transactions#12650L, Deed Transactions#12651L, Satisfaction of Mortgage Transactions#12652L, Assignment of Mortgage Transactions#12653L, lis_pendens_transactions#12654L, judgment_transactions#12655L, loan_modification_transactions#12656L]
Arguments: hashpartitioning(party_id#12418, 200)

(1244) PhotonShuffleMapStage
Input [12]: [party_name#12417, party_id#12418, company_id#12419, deleted_at#12648, has_pdf#12649, Mortgage Transactions#12650L, Deed Transactions#12651L, Satisfaction of Mortgage Transactions#12652L, Assignment of Mortgage Transactions#12653L, lis_pendens_transactions#12654L, judgment_transactions#12655L, loan_modification_transactions#12656L]
Arguments: ENSURE_REQUIREMENTS, [id=#151384]

(1245) PhotonShuffleExchangeSource
Input [12]: [party_name#12417, party_id#12418, company_id#12419, deleted_at#12648, has_pdf#12649, Mortgage Transactions#12650L, Deed Transactions#12651L, Satisfaction of Mortgage Transactions#12652L, Assignment of Mortgage Transactions#12653L, lis_pendens_transactions#12654L, judgment_transactions#12655L, loan_modification_transactions#12656L]

(1246) PhotonRowToColumnar
Input [5]: [party_name#12657, party_id#12658, company_id#12659, deleted_at#12660, updated_at#12661]

(1247) PhotonShuffleExchangeSink
Input [5]: [party_name#12657, party_id#12658, company_id#12659, deleted_at#12660, updated_at#12661]
Arguments: hashpartitioning(party_id#12658, 200)

(1248) PhotonShuffleMapStage
Input [5]: [party_name#12657, party_id#12658, company_id#12659, deleted_at#12660, updated_at#12661]
Arguments: ENSURE_REQUIREMENTS, [id=#151389]

(1249) PhotonShuffleExchangeSource
Input [5]: [party_name#12657, party_id#12658, company_id#12659, deleted_at#12660, updated_at#12661]

(1250) PhotonRowToColumnar
Input [2]: [party_id#12667, transaction_id#12668]

(1251) PhotonShuffleExchangeSink
Input [2]: [party_id#12667, transaction_id#12668]
Arguments: hashpartitioning(party_id#12667, 200)

(1252) PhotonShuffleMapStage
Input [2]: [party_id#12667, transaction_id#12668]
Arguments: ENSURE_REQUIREMENTS, [id=#151394]

(1253) PhotonShuffleExchangeSource
Input [2]: [party_id#12667, transaction_id#12668]

(1254) PhotonShuffledHashJoin
Left keys [1]: [party_id#12658]
Right keys [1]: [party_id#12667]
Join type: Inner
Join condition: None

(1255) PhotonProject
Input [7]: [party_name#12657, party_id#12658, company_id#12659, deleted_at#12660, updated_at#12661, party_id#12667, transaction_id#12668]
Arguments: [party_id#12658, party_name#12657, company_id#12659, deleted_at#12660, updated_at#12661, transaction_id#12668]

(1256) PhotonGroupingAgg
Input [6]: [party_id#12658, party_name#12657, company_id#12659, deleted_at#12660, updated_at#12661, transaction_id#12668]
Arguments: [party_name#12657, party_id#12658, company_id#12659, deleted_at#12660, transaction_id#12668, updated_at#12661], [party_name#12657, party_id#12658, company_id#12659, deleted_at#12660, transaction_id#12668, updated_at#12661], false

(1257) PhotonShuffleExchangeSink
Input [6]: [party_name#12657, party_id#12658, company_id#12659, deleted_at#12660, transaction_id#12668, updated_at#12661]
Arguments: hashpartitioning(transaction_id#12668, 200)

(1258) PhotonShuffleMapStage
Input [6]: [party_name#12657, party_id#12658, company_id#12659, deleted_at#12660, transaction_id#12668, updated_at#12661]
Arguments: ENSURE_REQUIREMENTS, [id=#151404]

(1259) PhotonShuffleExchangeSource
Input [6]: [party_name#12657, party_id#12658, company_id#12659, deleted_at#12660, transaction_id#12668, updated_at#12661]

(1260) PhotonRowToColumnar
Input [7]: [county#12671, transaction_type#12672, fc_transaction_date#12673, fc_recorded_date#12674, fcdateupdated#12676, fctransactionid#12677, pdf_id#12678]

(1261) PhotonShuffleExchangeSink
Input [7]: [county#12671, transaction_type#12672, fc_transaction_date#12673, fc_recorded_date#12674, fcdateupdated#12676, fctransactionid#12677, pdf_id#12678]
Arguments: hashpartitioning(fctransactionid#12677, 200)

(1262) PhotonShuffleMapStage
Input [7]: [county#12671, transaction_type#12672, fc_transaction_date#12673, fc_recorded_date#12674, fcdateupdated#12676,

fctransactionid#12677, pdf_id#12678]
Arguments: ENSURE_REQUIREMENTS, [id=#151409]

(1263) PhotonShuffleExchangeSource
Input [7]: [county#12671, transaction_type#12672, fc_transaction_date#12673, fc_recorded_date#12674, fcdateupdated#12676, fctransactionid#12677, pdf_id#12678]

(1264) PhotonShuffledHashJoin
Left keys [1]: [transaction_id#12668]
Right keys [1]: [fctransactionid#12677]
Join type: Inner
Join condition: None

(1265) PhotonProject
Input [13]: [party_name#12657, party_id#12658, company_id#12659, deleted_at#12660, transaction_id#12668, updated_at#12661, county#12671, transaction_type#12672, fc_transaction_date#12673, fc_recorded_date#12674, fcdateupdated#12676, fctransactionid#12677, pdf_id#12678]
Arguments: [party_name#12657, party_id#12658, company_id#12659, deleted_at#12660, county#12671, transaction_type#12672, fc_transaction_date#12673, fc_recorded_date#12674, greatest(fcdateupdated#12676, updated_at#12661) AS fcdateupdated#12717, fctransactionid#12677, pdf_id#12678]

(1266) PhotonGroupingAgg
Input [11]: [party_name#12657, party_id#12658, company_id#12659, deleted_at#12660, county#12671, transaction_type#12672, fc_transaction_date#12673, fc_recorded_date#12674, fcdateupdated#12717, fctransactionid#12677, pdf_id#12678]
Arguments: [party_name#12657, party_id#12658, company_id#12659, deleted_at#12660, county#12671, transaction_type#12672, fc_transaction_date#12673, fc_recorded_date#12674, fcdateupdated#12717, fctransactionid#12677, pdf_id#12678], [party_name#12657, party_id#12658, company_id#12659, deleted_at#12660, county#12671, transaction_type#12672, fc_transaction_date#12673, fc_recorded_date#12674, fcdateupdated#12717, fctransactionid#12677, pdf_id#12678], false

(1267) PhotonShuffleExchangeSink
Input [11]: [party_name#12657, party_id#12658, company_id#12659, deleted_at#12660, county#12671, transaction_type#12672, fc_transaction_date#12673, fc_recorded_date#12674, fcdateupdated#12717, fctransactionid#12677, pdf_id#12678]
Arguments: hashpartitioning(party_id#12658, 200)

(1268) PhotonShuffleMapStage
Input [11]: [party_name#12657, party_id#12658, company_id#12659, deleted_at#12660, county#12671, transaction_type#12672, fc_transaction_date#12673, fc_recorded_date#12674, fcdateupdated#12717, fctransactionid#12677, pdf_id#12678]
Arguments: ENSURE_REQUIREMENTS, [id=#151420]

(1269) PhotonShuffleExchangeSource
Input [11]: [party_name#12657, party_id#12658, company_id#12659, deleted_at#12660, county#12671, transaction_type#12672, fc_transaction_date#12673, fc_recorded_date#12674, fcdateupdated#12717, fctransactionid#12677, pdf_id#12678]

(1270) PhotonRowToColumnar
Input [2]: [party_id#12687, transaction_id#12688]

(1271) PhotonShuffleExchangeSink
Input [2]: [party_id#12687, transaction_id#12688]
Arguments: hashpartitioning(transaction_id#12688, 200)

(1272) PhotonShuffleMapStage
Input [2]: [party_id#12687, transaction_id#12688]
Arguments: ENSURE_REQUIREMENTS, [id=#151425]

(1273) PhotonShuffleExchangeSource
Input [2]: [party_id#12687, transaction_id#12688]

(1274) PhotonRowToColumnar
Input [1]: [fc_transaction_id#12691]

(1275) PhotonShuffleExchangeSink
Input [1]: [fc_transaction_id#12691]
Arguments: hashpartitioning(fc_transaction_id#12691, 200)

(1276) PhotonShuffleMapStage
Input [1]: [fc_transaction_id#12691]
Arguments: ENSURE_REQUIREMENTS, [id=#151430]

(1277) PhotonShuffleExchangeSource
Input [1]: [fc_transaction_id#12691]

(1278) PhotonShuffledHashJoin
Left keys [1]: [transaction_id#12688]
Right keys [1]: [fc_transaction_id#12691]
Join type: LeftSemi
Join condition: None

(1279) PhotonProject
Input [2]: [party_id#12687, transaction_id#12688]
Arguments: [party_id#12687]

(1280) PhotonGroupingAgg
Input [1]: [party_id#12687]
Arguments: [party_id#12687], [party_id#12687], false

(1281) PhotonShuffleExchangeSink
Input [1]: [party_id#12687]
Arguments: hashpartitioning(party_id#12687, 200)

(1282) PhotonShuffleMapStage
Input [1]: [party_id#12687]
Arguments: ENSURE_REQUIREMENTS, [id=#151440]

(1283) PhotonShuffleExchangeSource
Input [1]: [party_id#12687]

(1284) PhotonGroupingAgg
Input [1]: [party_id#12687]
Arguments: [party_id#12687], [party_id#12687], true

(1285) PhotonGroupingAgg
Input [1]: [party_id#12687]
Arguments: [party_id#12687], [party_id#12687], false

(1286) PhotonShuffleExchangeSink
Input [1]: [party_id#12687]
Arguments: hashpartitioning(party_id#12687, 200)

(1287) PhotonRowToColumnar
Input [2]: [party_id#12693, transaction_id#12694]

(1288) PhotonShuffleExchangeSink
Input [2]: [party_id#12693, transaction_id#12694]
Arguments: hashpartitioning(transaction_id#12694, 200)

(1289) PhotonShuffleMapStage
Input [2]: [party_id#12693, transaction_id#12694]
Arguments: ENSURE_REQUIREMENTS, [id=#151449]

(1290) PhotonShuffleExchangeSource
Input [2]: [party_id#12693, transaction_id#12694]

(1291) PhotonRowToColumnar
Input [1]: [fc_transaction_id#12697]

(1292) PhotonShuffleExchangeSink
Input [1]: [fc_transaction_id#12697]
Arguments: hashpartitioning(fc_transaction_id#12697, 200)

(1293) PhotonShuffleMapStage
Input [1]: [fc_transaction_id#12697]
Arguments: ENSURE_REQUIREMENTS, [id=#151454]

(1294) PhotonShuffleExchangeSource
Input [1]: [fc_transaction_id#12697]

(1295) PhotonShuffledHashJoin
Left keys [1]: [transaction_id#12694]
Right keys [1]: [fc_transaction_id#12697]
Join type: LeftSemi
Join condition: None

(1296) PhotonProject
Input [2]: [party_id#12693, transaction_id#12694]
Arguments: [party_id#12693]

(1297) PhotonGroupingAgg
Input [1]: [party_id#12693]
Arguments: [party_id#12693], [party_id#12693], false

(1298) PhotonShuffleExchangeSink
Input [1]: [party_id#12693]
Arguments: hashpartitioning(party_id#12693, 200)

(1299) PhotonShuffleMapStage
Input [1]: [party_id#12693]
Arguments: ENSURE_REQUIREMENTS, [id=#151464]

(1300) PhotonShuffleExchangeSource
Input [1]: [party_id#12693]

(1301) PhotonGroupingAgg
Input [1]: [party_id#12693]
Arguments: [party_id#12693], [party_id#12693], true

(1302) PhotonGroupingAgg
Input [1]: [party_id#12693]

Arguments: [party_id#12693], [party_id#12693], false

(1303) PhotonShuffleExchangeSink

Input [1]: [party_id#12693]

Arguments: hashpartitioning(party_id#12693, 200)

(1304) PhotonUnionShuffleExchangeSink

(1305) PhotonUnionShuffleMapStage

Input [1]: [party_id#12687]

Arguments: ENSURE_REQUIREMENTS, [id=#151477]

(1306) PhotonShuffleExchangeSource

Input [1]: [party_id#12687]

(1307) PhotonShuffledHashJoin

Left keys [1]: [party_id#12658]

Right keys [1]: [party_id#12687]

Join type: LeftSemi

Join condition: None

(1308) PhotonGroupingAgg

Input [11]: [party_name#12657, party_id#12658, company_id#12659, deleted_at#12660, county#12671, transaction_type#12672, fc_transaction_date#12673, fc_recorded_date#12674, fcdateupdated#12717, fctransactionid#12677, pdf_id#12678]

Arguments: [party_name#12657, party_id#12658, company_id#12659, deleted_at#12660, county#12671, transaction_type#12672, fc_transaction_date#12673, fc_recorded_date#12674, fcdateupdated#12717, fctransactionid#12677, pdf_id#12678], [party_name#12657, party_id#12658, company_id#12659, deleted_at#12660, county#12671, transaction_type#12672, fc_transaction_date#12673, fc_recorded_date#12674, fcdateupdated#12717, fctransactionid#12677, pdf_id#12678], false

(1309) PhotonShuffleExchangeSink

Input [11]: [party_name#12657, party_id#12658, company_id#12659, deleted_at#12660, county#12671, transaction_type#12672, fc_transaction_date#12673, fc_recorded_date#12674, fcdateupdated#12717, fctransactionid#12677, pdf_id#12678]

Arguments: hashpartitioning(pdf_id#12678, 200)

(1310) PhotonShuffleMapStage

Input [11]: [party_name#12657, party_id#12658, company_id#12659, deleted_at#12660, county#12671, transaction_type#12672, fc_transaction_date#12673, fc_recorded_date#12674, fcdateupdated#12717, fctransactionid#12677, pdf_id#12678]

Arguments: ENSURE_REQUIREMENTS, [id=#151490]

(1311) PhotonShuffleExchangeSource

Input [11]: [party_name#12657, party_id#12658, company_id#12659, deleted_at#12660, county#12671, transaction_type#12672, fc_transaction_date#12673, fc_recorded_date#12674, fcdateupdated#12717, fctransactionid#12677, pdf_id#12678]

(1312) PhotonRowToColumnar

Input [1]: [pdf_id#12699]

(1313) PhotonShuffleExchangeSink

Input [1]: [pdf_id#12699]

Arguments: hashpartitioning(pdf_id#12699, 200)

(1314) PhotonShuffleMapStage

Input [1]: [pdf_id#12699]

Arguments: ENSURE_REQUIREMENTS, [id=#151495]

(1315) PhotonShuffleExchangeSource

Input [1]: [pdf_id#12699]

(1316) PhotonShuffledHashJoin

Left keys [1]: [pdf_id#12678]

Right keys [1]: [pdf_id#12699]

Join type: LeftOuter

Join condition: None

(1317) PhotonProject

Input [12]: [party_name#12657, party_id#12658, company_id#12659, deleted_at#12660, county#12671, transaction_type#12672, fc_transaction_date#12673, fc_recorded_date#12674, fcdateupdated#12717, fctransactionid#12677, pdf_id#12678, pdf_id#12699]

Arguments: [party_name#12657, party_id#12658, company_id#12659, deleted_at#12660, county#12671, transaction_type#12672, fc_transaction_date#12673, fc_recorded_date#12674, fcdateupdated#12717, fctransactionid#12677, ((isnotnull(pdf_id#12699) AND (transaction_type#12672 = MORTGAGE)) <=> true) AS has_pdf#12749]

(1318) PhotonGroupingAgg

Input [11]: [party_name#12657, party_id#12658, company_id#12659, deleted_at#12660, county#12671, transaction_type#12672, fc_transaction_date#12673, fc_recorded_date#12674, fcdateupdated#12717, fctransactionid#12677, has_pdf#12749]

Arguments: [party_name#12657, party_id#12658, company_id#12659, deleted_at#12660, county#12671, transaction_type#12672, fc_transaction_date#12673, fc_recorded_date#12674, fcdateupdated#12717, fctransactionid#12677, has_pdf#12749], [party_name#12657, party_id#12658, company_id#12659, deleted_at#12660, county#12671, transaction_type#12672, fc_transaction_date#12673, fc_recorded_date#12674, fcdateupdated#12717, fctransactionid#12677, has_pdf#12749], false

(1319) PhotonShuffleExchangeSink

Input [11]: [party_name#12657, party_id#12658, company_id#12659, deleted_at#12660, county#12671, transaction_type#12672, fc_transaction_date#12673, fc_recorded_date#12674, fcdateupdated#12717, fctransactionid#12677, has_pdf#12749]

Arguments: hashpartitioning(party_name#12657, party_id#12658, company_id#12659, deleted_at#12660, county#12671, transaction_type#12672, fc_transaction_date#12673, fc_recorded_date#12674, fcdateupdated#12717, fctransactionid#12677, has_pdf#12749, 200)

(1320) PhotonShuffleMapStage

Input [11]: [party_name#12657, party_id#12658, company_id#12659, deleted_at#12660, county#12671, transaction_type#12672, fc_transaction_date#12673, fc_recorded_date#12674, fcdateupdated#12717, fctransactionid#12677, has_pdf#12749]

Arguments: ENSURE_REQUIREMENTS, [id=#151506]

(1321) PhotonShuffleExchangeSource

Input [11]: [party_name#12657, party_id#12658, company_id#12659, deleted_at#12660, county#12671, transaction_type#12672, fc_transaction_date#12673, fc_recorded_date#12674, fcdateupdated#12717, fctransactionid#12677, has_pdf#12749]

(1322) PhotonGroupingAgg

Input [11]: [party_name#12657, party_id#12658, company_id#12659, deleted_at#12660, county#12671, transaction_type#12672, fc_transaction_date#12673, fc_recorded_date#12674, fcdateupdated#12717, fctransactionid#12677, has_pdf#12749]

Arguments: [party_name#12657, party_id#12658, company_id#12659, deleted_at#12660, county#12671, transaction_type#12672, fc_transaction_date#12673, fc_recorded_date#12674, fcdateupdated#12717, fctransactionid#12677, has_pdf#12749], [party_name#12657, party_id#12658, fc_recorded_date#12674, fcdateupdated#12717], true

(1323) PhotonGroupingAgg

Input [4]: [party_name#12657, party_id#12658, fc_recorded_date#12674, fcdateupdated#12717]

Arguments: [party_id#12658, party_name#12657], [partial_max(date_format(cast(fc_recorded_date#12674 as timestamp), yyyy-MM-dd, Some(Etc/UTC))) AS max#14213, partial_max(fcdateupdated#12717) AS max#14215], [max#14212, max#14214], [party_id#12658, party_name#12657, max#14213, max#14215], false

(1324) PhotonShuffleExchangeSink

Input [4]: [party_id#12658, party_name#12657, max#14213, max#14215]

Arguments: hashpartitioning(party_id#12658, party_name#12657, 200)

(1325) PhotonRowToColumnar

Input [5]: [party_name#12766, party_id#12767, company_id#12768, deleted_at#12769, updated_at#12770]

(1326) PhotonShuffleExchangeSink

Input [5]: [party_name#12766, party_id#12767, company_id#12768, deleted_at#12769, updated_at#12770]

Arguments: hashpartitioning(party_id#12767, 200)

(1327) PhotonShuffleMapStage

Input [5]: [party_name#12766, party_id#12767, company_id#12768, deleted_at#12769, updated_at#12770]

Arguments: ENSURE_REQUIREMENTS, [id=#151520]

(1328) PhotonShuffleExchangeSource

Input [5]: [party_name#12766, party_id#12767, company_id#12768, deleted_at#12769, updated_at#12770]

(1329) PhotonRowToColumnar

Input [2]: [party_id#12776, transaction_id#12777]

(1330) PhotonShuffleExchangeSink

Input [2]: [party_id#12776, transaction_id#12777]

Arguments: hashpartitioning(party_id#12776, 200)

(1331) PhotonShuffleMapStage

Input [2]: [party_id#12776, transaction_id#12777]

Arguments: ENSURE_REQUIREMENTS, [id=#151525]

(1332) PhotonShuffleExchangeSource

Input [2]: [party_id#12776, transaction_id#12777]

(1333) PhotonShuffledHashJoin

Left keys [1]: [party_id#12767]

Right keys [1]: [party_id#12776]

Join type: Inner

Join condition: None

(1334) PhotonProject

Input [7]: [party_name#12766, party_id#12767, company_id#12768, deleted_at#12769, updated_at#12770, party_id#12776, transaction_id#12777]

Arguments: [party_id#12767, party_name#12766, company_id#12768, deleted_at#12769, updated_at#12770, transaction_id#12777]

(1335) PhotonGroupingAgg

Input [6]: [party_id#12767, party_name#12766, company_id#12768, deleted_at#12769, updated_at#12770, transaction_id#12777]

Arguments: [party_name#12766, party_id#12767, company_id#12768, deleted_at#12769, transaction_id#12777, updated_at#12770], [party_name#12766, party_id#12767, company_id#12768, deleted_at#12769, transaction_id#12777, updated_at#12770], false

(1336) PhotonShuffleExchangeSink

Input [6]: [party_name#12766, party_id#12767, company_id#12768, deleted_at#12769, transaction_id#12777, updated_at#12770]

Arguments: hashpartitioning(transaction_id#12777, 200)

(1337) PhotonShuffleMapStage

Input [6]: [party_name#12766, party_id#12767, company_id#12768, deleted_at#12769, transaction_id#12777, updated_at#12770]

Arguments: ENSURE_REQUIREMENTS, [id=#151535]

(1338) PhotonShuffleExchangeSource

Input [6]: [party_name#12766, party_id#12767, company_id#12768, deleted_at#12769, transaction_id#12777, updated_at#12770]

(1339) PhotonRowToColumnar

Input [7]: [county#12780, transaction_type#12781, fc_transaction_date#12782, fc_recorded_date#12783, fcdateupdated#12785,

fctransactionid#12786, pdf_id#12787]

(1340) PhotonShuffleExchangeSink

Input [7]: [county#12780, transaction_type#12781, fc_transaction_date#12782, fc_recorded_date#12783, fcdateupdated#12785, fctransactionid#12786, pdf_id#12787]

Arguments: hashpartitioning(fctransactionid#12786, 200)

(1341) PhotonShuffleMapStage

Input [7]: [county#12780, transaction_type#12781, fc_transaction_date#12782, fc_recorded_date#12783, fcdateupdated#12785, fctransactionid#12786, pdf_id#12787]

Arguments: ENSURE_REQUIREMENTS, [id=#151540]

(1342) PhotonShuffleExchangeSource

Input [7]: [county#12780, transaction_type#12781, fc_transaction_date#12782, fc_recorded_date#12783, fcdateupdated#12785, fctransactionid#12786, pdf_id#12787]

(1343) PhotonShuffledHashJoin

Left keys [1]: [transaction_id#12777]

Right keys [1]: [fctransactionid#12786]

Join type: Inner

Join condition: None

(1344) PhotonProject

Input [13]: [party_name#12766, party_id#12767, company_id#12768, deleted_at#12769, transaction_id#12777, updated_at#12770, county#12780, transaction_type#12781, fc_transaction_date#12782, fc_recorded_date#12783, fcdateupdated#12785, fctransactionid#12786, pdf_id#12787]

Arguments: [party_name#12766, party_id#12767, company_id#12768, deleted_at#12769, county#12780, transaction_type#12781, fc_transaction_date#12782, fc_recorded_date#12783, greatest(fcdateupdated#12785, updated_at#12770) AS fcdateupdated#12827, fctransactionid#12786, pdf_id#12787]

(1345) PhotonGroupingAgg

Input [11]: [party_name#12766, party_id#12767, company_id#12768, deleted_at#12769, county#12780, transaction_type#12781, fc_transaction_date#12782, fc_recorded_date#12783, fcdateupdated#12827, fctransactionid#12786, pdf_id#12787]

Arguments: [party_name#12766, party_id#12767, company_id#12768, deleted_at#12769, county#12780, transaction_type#12781, fc_transaction_date#12782, fc_recorded_date#12783, fcdateupdated#12827, fctransactionid#12786, pdf_id#12787], [party_name#12766, party_id#12767, company_id#12768, deleted_at#12769, county#12780, transaction_type#12781, fc_transaction_date#12782, fc_recorded_date#12783, fcdateupdated#12827, fctransactionid#12786, pdf_id#12787], false

(1346) PhotonShuffleExchangeSink

Input [11]: [party_name#12766, party_id#12767, company_id#12768, deleted_at#12769, county#12780, transaction_type#12781, fc_transaction_date#12782, fc_recorded_date#12783, fcdateupdated#12827, fctransactionid#12786, pdf_id#12787]

Arguments: hashpartitioning(party_id#12767, 200)

(1347) PhotonShuffleMapStage

Input [11]: [party_name#12766, party_id#12767, company_id#12768, deleted_at#12769, county#12780, transaction_type#12781, fc_transaction_date#12782, fc_recorded_date#12783, fcdateupdated#12827, fctransactionid#12786, pdf_id#12787]

Arguments: ENSURE_REQUIREMENTS, [id=#151551]

(1348) PhotonShuffleExchangeSource

Input [11]: [party_name#12766, party_id#12767, company_id#12768, deleted_at#12769, county#12780, transaction_type#12781, fc_transaction_date#12782, fc_recorded_date#12783, fcdateupdated#12827, fctransactionid#12786, pdf_id#12787]

(1349) PhotonRowToColumnar

Input [2]: [party_id#12796, transaction_id#12797]

(1350) PhotonShuffleExchangeSink

Input [2]: [party_id#12796, transaction_id#12797]

Arguments: hashpartitioning(transaction_id#12797, 200)

(1351) PhotonShuffleMapStage

Input [2]: [party_id#12796, transaction_id#12797]

Arguments: ENSURE_REQUIREMENTS, [id=#151556]

(1352) PhotonShuffleExchangeSource

Input [2]: [party_id#12796, transaction_id#12797]

(1353) PhotonRowToColumnar

Input [1]: [fc_transaction_id#12800]

(1354) PhotonShuffleExchangeSink

Input [1]: [fc_transaction_id#12800]

Arguments: hashpartitioning(fc_transaction_id#12800, 200)

(1355) PhotonShuffleMapStage

Input [1]: [fc_transaction_id#12800]

Arguments: ENSURE_REQUIREMENTS, [id=#151561]

(1356) PhotonShuffleExchangeSource

Input [1]: [fc_transaction_id#12800]

(1357) PhotonShuffledHashJoin

Left keys [1]: [transaction_id#12797]

Right keys [1]: [fc_transaction_id#12800]

Join type: LeftSemi

Join condition: None

(1358) PhotonProject

Input [2]: [party_id#12796, transaction_id#12797]

Arguments: [party_id#12796]

(1359) PhotonGroupingAgg

Input [1]: [party_id#12796]

Arguments: [party_id#12796], [party_id#12796], false

(1360) PhotonShuffleExchangeSink

Input [1]: [party_id#12796]

Arguments: hashpartitioning(party_id#12796, 200)

(1361) PhotonShuffleMapStage

Input [1]: [party_id#12796]

Arguments: ENSURE_REQUIREMENTS, [id=#151571]

(1362) PhotonShuffleExchangeSource

Input [1]: [party_id#12796]

(1363) PhotonGroupingAgg

Input [1]: [party_id#12796]

Arguments: [party_id#12796], [party_id#12796], true

(1364) PhotonGroupingAgg

Input [1]: [party_id#12796]

Arguments: [party_id#12796], [party_id#12796], false

(1365) PhotonShuffleExchangeSink

Input [1]: [party_id#12796]

Arguments: hashpartitioning(party_id#12796, 200)

(1366) PhotonRowToColumnar

Input [2]: [party_id#12802, transaction_id#12803]

(1367) PhotonShuffleExchangeSink

Input [2]: [party_id#12802, transaction_id#12803]

Arguments: hashpartitioning(transaction_id#12803, 200)

(1368) PhotonShuffleMapStage

Input [2]: [party_id#12802, transaction_id#12803]

Arguments: ENSURE_REQUIREMENTS, [id=#151580]

(1369) PhotonShuffleExchangeSource

Input [2]: [party_id#12802, transaction_id#12803]

(1370) PhotonRowToColumnar

Input [1]: [fc_transaction_id#12806]

(1371) PhotonShuffleExchangeSink

Input [1]: [fc_transaction_id#12806]

Arguments: hashpartitioning(fc_transaction_id#12806, 200)

(1372) PhotonShuffleMapStage

Input [1]: [fc_transaction_id#12806]

Arguments: ENSURE_REQUIREMENTS, [id=#151585]

(1373) PhotonShuffleExchangeSource

Input [1]: [fc_transaction_id#12806]

(1374) PhotonShuffledHashJoin

Left keys [1]: [transaction_id#12803]

Right keys [1]: [fc_transaction_id#12806]

Join type: LeftSemi

Join condition: None

(1375) PhotonProject

Input [2]: [party_id#12802, transaction_id#12803]

Arguments: [party_id#12802]

(1376) PhotonGroupingAgg

Input [1]: [party_id#12802]

Arguments: [party_id#12802], [party_id#12802], false

(1377) PhotonShuffleExchangeSink

Input [1]: [party_id#12802]

Arguments: hashpartitioning(party_id#12802, 200)

(1378) PhotonShuffleMapStage

Input [1]: [party_id#12802]

Arguments: ENSURE_REQUIREMENTS, [id=#151595]

(1379) PhotonShuffleExchangeSource
Input [1]: [party_id#12802]

(1380) PhotonGroupingAgg
Input [1]: [party_id#12802]
Arguments: [party_id#12802], [party_id#12802], true

(1381) PhotonGroupingAgg
Input [1]: [party_id#12802]
Arguments: [party_id#12802], [party_id#12802], false

(1382) PhotonShuffleExchangeSink
Input [1]: [party_id#12802]
Arguments: hashpartitioning(party_id#12802, 200)

(1383) PhotonUnionShuffleExchangeSink

(1384) PhotonUnionShuffleMapStage
Input [1]: [party_id#12796]
Arguments: ENSURE_REQUIREMENTS, [id=#151608]

(1385) PhotonShuffleExchangeSource
Input [1]: [party_id#12796]

(1386) PhotonShuffledHashJoin
Left keys [1]: [party_id#12767]
Right keys [1]: [party_id#12796]
Join type: LeftSemi
Join condition: None

(1387) PhotonGroupingAgg
Input [11]: [party_name#12766, party_id#12767, company_id#12768, deleted_at#12769, county#12780, transaction_type#12781, fc_transaction_date#12782, fc_recorded_date#12783, fcdateupdated#12827, fctransactionid#12786, pdf_id#12787]
Arguments: [party_name#12766, party_id#12767, company_id#12768, deleted_at#12769, county#12780, transaction_type#12781, fc_transaction_date#12782, fc_recorded_date#12783, fcdateupdated#12827, fctransactionid#12786, pdf_id#12787], [party_name#12766, party_id#12767, company_id#12768, deleted_at#12769, county#12780, transaction_type#12781, fc_transaction_date#12782, fc_recorded_date#12783, fcdateupdated#12827, fctransactionid#12786, pdf_id#12787], false

(1388) PhotonShuffleExchangeSink
Input [11]: [party_name#12766, party_id#12767, company_id#12768, deleted_at#12769, county#12780, transaction_type#12781, fc_transaction_date#12782, fc_recorded_date#12783, fcdateupdated#12827, fctransactionid#12786, pdf_id#12787]
Arguments: hashpartitioning(pdf_id#12787, 200)

(1389) PhotonShuffleMapStage
Input [11]: [party_name#12766, party_id#12767, company_id#12768, deleted_at#12769, county#12780, transaction_type#12781, fc_transaction_date#12782, fc_recorded_date#12783, fcdateupdated#12827, fctransactionid#12786, pdf_id#12787]
Arguments: ENSURE_REQUIREMENTS, [id=#151621]

(1390) PhotonShuffleExchangeSource
Input [11]: [party_name#12766, party_id#12767, company_id#12768, deleted_at#12769, county#12780, transaction_type#12781, fc_transaction_date#12782, fc_recorded_date#12783, fcdateupdated#12827, fctransactionid#12786, pdf_id#12787]

(1391) PhotonRowToColumnar
Input [1]: [pdf_id#12808]

(1392) PhotonShuffleExchangeSink
Input [1]: [pdf_id#12808]
Arguments: hashpartitioning(pdf_id#12808, 200)

(1393) PhotonShuffleMapStage
Input [1]: [pdf_id#12808]
Arguments: ENSURE_REQUIREMENTS, [id=#151626]

(1394) PhotonShuffleExchangeSource
Input [1]: [pdf_id#12808]

(1395) PhotonShuffledHashJoin
Left keys [1]: [pdf_id#12787]
Right keys [1]: [pdf_id#12808]
Join type: LeftOuter
Join condition: None

(1396) PhotonProject
Input [12]: [party_name#12766, party_id#12767, company_id#12768, deleted_at#12769, county#12780, transaction_type#12781, fc_transaction_date#12782, fc_recorded_date#12783, fcdateupdated#12827, fctransactionid#12786, pdf_id#12787, pdf_id#12808]
Arguments: [party_name#12766, party_id#12767, company_id#12768, deleted_at#12769, county#12780, transaction_type#12781, fc_transaction_date#12782, fc_recorded_date#12783, fcdateupdated#12827, fctransactionid#12786, ((isnotnull(pdf_id#12808) AND (transaction_type#12781 = MORTGAGE)) <=> true) AS has_pdf#12861]

(1397) PhotonGroupingAgg
Input [11]: [party_name#12766, party_id#12767, company_id#12768, deleted_at#12769, county#12780, transaction_type#12781, fc_transaction_date#12782, fc_recorded_date#12783, fcdateupdated#12827, fctransactionid#12786, has_pdf#12861]
Arguments: [party_name#12766, party_id#12767, company_id#12768, deleted_at#12769, county#12780, transaction_type#12781,

fc_transaction_date#12782, fc_recorded_date#12783, fcdateupdated#12827, fctransactionid#12786, has_pdf#12861], [party_name#12766, party_id#12767, company_id#12768, deleted_at#12769, county#12780, transaction_type#12781, fc_transaction_date#12782, fc_recorded_date#12783, fcdateupdated#12827, fctransactionid#12786, has_pdf#12861], false

(1398) PhotonShuffleExchangeSink

Input [11]: [party_name#12766, party_id#12767, company_id#12768, deleted_at#12769, county#12780, transaction_type#12781, fc_transaction_date#12782, fc_recorded_date#12783, fcdateupdated#12827, fctransactionid#12786, has_pdf#12861]

Arguments: hashpartitioning(party_name#12766, party_id#12767, company_id#12768, deleted_at#12769, county#12780, transaction_type#12781, fc_transaction_date#12782, fc_recorded_date#12783, fcdateupdated#12827, fctransactionid#12786, has_pdf#12861, 200)

(1399) PhotonShuffleMapStage

Input [11]: [party_name#12766, party_id#12767, company_id#12768, deleted_at#12769, county#12780, transaction_type#12781, fc_transaction_date#12782, fc_recorded_date#12783, fcdateupdated#12827, fctransactionid#12786, has_pdf#12861]

Arguments: ENSURE_REQUIREMENTS, [id=#151637]

(1400) PhotonShuffleExchangeSource

Input [11]: [party_name#12766, party_id#12767, company_id#12768, deleted_at#12769, county#12780, transaction_type#12781, fc_transaction_date#12782, fc_recorded_date#12783, fcdateupdated#12827, fctransactionid#12786, has_pdf#12861]

(1401) PhotonGroupingAgg

Input [11]: [party_name#12766, party_id#12767, company_id#12768, deleted_at#12769, county#12780, transaction_type#12781, fc_transaction_date#12782, fc_recorded_date#12783, fcdateupdated#12827, fctransactionid#12786, has_pdf#12861]

Arguments: [party_name#12766, party_id#12767, company_id#12768, deleted_at#12769, county#12780, transaction_type#12781, fc_transaction_date#12782, fc_recorded_date#12783, fcdateupdated#12827, fctransactionid#12786, has_pdf#12861], [party_name#12766, party_id#12767, fc_recorded_date#12783, fcdateupdated#12827], true

(1402) PhotonGroupingAgg

Input [4]: [party_name#12766, party_id#12767, fc_recorded_date#12783, fcdateupdated#12827]

Arguments: [party_id#12767, party_name#12766], [partial_max(date_format(cast(fc_recorded_date#12783 as timestamp), yyyy-MM-dd, Some(Etc/UTC))) AS max#14213, partial_max(fcdateupdated#12827) AS max#14215], [max#14212, max#14214], [party_id#12767, party_name#12766, max#14213, max#14215], false

(1403) PhotonShuffleExchangeSink

Input [4]: [party_id#12767, party_name#12766, max#14213, max#14215]

Arguments: hashpartitioning(party_id#12767, party_name#12766, 200)

(1404) PhotonUnionShuffleExchangeSink

(1405) PhotonUnionShuffleMapStage

Input [4]: [party_id#12658, party_name#12657, max#14213, max#14215]

Arguments: ENSURE_REQUIREMENTS, [id=#151655]

(1406) PhotonShuffleExchangeSource

Input [4]: [party_id#12658, party_name#12657, max#14213, max#14215]

(1407) PhotonGroupingAgg

Input [4]: [party_id#12658, party_name#12657, max#14213, max#14215]

Arguments: [party_id#12658, party_name#12657], [finalmerge_max(merge max#14213) AS max(date_format(cast(fc_recorded_date#12674 as timestamp), yyyy-MM-dd, Some(Etc/UTC)))#14077, finalmerge_max(merge max#14215) AS max(fcdateupdated#12717)#14053], [max(date_format(cast(fc_recorded_date#12674 as timestamp), yyyy-MM-dd, Some(Etc/UTC)))#14077, max(fcdateupdated#12717)#14053], [party_id#12658, max(date_format(cast(fc_recorded_date#12674 as timestamp), yyyy-MM-dd, Some(Etc/UTC)))#14077 AS Most Recent Transaction#12879, max(fcdateupdated#12717)#14053 AS fcdateupdated#12880], true

(1408) PhotonShuffleExchangeSink

Input [3]: [party_id#12658, Most Recent Transaction#12879, fcdateupdated#12880]

Arguments: hashpartitioning(party_id#12658, 200)

(1409) PhotonShuffleMapStage

Input [3]: [party_id#12658, Most Recent Transaction#12879, fcdateupdated#12880]

Arguments: ENSURE_REQUIREMENTS, [id=#151666]

(1410) PhotonShuffleExchangeSource

Input [3]: [party_id#12658, Most Recent Transaction#12879, fcdateupdated#12880]

(1411) PhotonShuffledHashJoin

Left keys [1]: [party_id#12418]

Right keys [1]: [party_id#12658]

Join type: LeftOuter

Join condition: None

(1412) PhotonProject

Input [15]: [party_name#12417, party_id#12418, company_id#12419, deleted_at#12648, has_pdf#12649, Mortgage Transactions#12650L, Deed Transactions#12651L, Satisfaction of Mortgage Transactions#12652L, Assignment of Mortgage Transactions#12653L, lis_pendens_transactions#12654L, judgment_transactions#12655L, loan_modification_transactions#12656L, party_id#12658, Most Recent Transaction#12879, fcdateupdated#12880]

Arguments: [party_name#12417, party_id#12418, company_id#12419, deleted_at#12648, has_pdf#12649, Mortgage Transactions#12650L, Deed Transactions#12651L, Satisfaction of Mortgage Transactions#12652L, Assignment of Mortgage Transactions#12653L, lis_pendens_transactions#12654L, judgment_transactions#12655L, loan_modification_transactions#12656L, Most Recent Transaction#12879, fcdateupdated#12880]

(1413) PhotonLocalLimit

Input [14]: [party_name#12417, party_id#12418, company_id#12419, deleted_at#12648, has_pdf#12649, Mortgage Transactions#12650L, Deed Transactions#12651L, Satisfaction of Mortgage Transactions#12652L, Assignment of Mortgage Transactions#12653L,

lis_pendens_transactions#12654L, judgment_transactions#12655L, loan_modification_transactions#12656L, Most Recent Transaction#12879, fcdateupdated#12880]

Arguments: 21

(1414) PhotonRowToColumnar

Input [1]: [party_id#12882]

(1415) PhotonShuffleExchangeSink

Input [1]: [party_id#12882]

Arguments: hashpartitioning(party_id#12882, 200)

(1416) PhotonShuffleMapStage

Input [1]: [party_id#12882]

Arguments: ENSURE_REQUIREMENTS, [id=#151687]

(1417) PhotonShuffleExchangeSource

Input [1]: [party_id#12882]

(1418) PhotonRowToColumnar

Input [2]: [party_id#12891, transaction_id#12892]

(1419) PhotonShuffleExchangeSink

Input [2]: [party_id#12891, transaction_id#12892]

Arguments: hashpartitioning(party_id#12891, 200)

(1420) PhotonShuffleMapStage

Input [2]: [party_id#12891, transaction_id#12892]

Arguments: ENSURE_REQUIREMENTS, [id=#151692]

(1421) PhotonShuffleExchangeSource

Input [2]: [party_id#12891, transaction_id#12892]

(1422) PhotonShuffledHashJoin

Left keys [1]: [party_id#12882]

Right keys [1]: [party_id#12891]

Join type: Inner

Join condition: None

(1423) PhotonProject

Input [3]: [party_id#12882, party_id#12891, transaction_id#12892]

Arguments: [party_id#12882, transaction_id#12892]

(1424) PhotonShuffleExchangeSink

Input [2]: [party_id#12882, transaction_id#12892]

Arguments: hashpartitioning(transaction_id#12892, 200)

(1425) PhotonShuffleMapStage

Input [2]: [party_id#12882, transaction_id#12892]

Arguments: ENSURE_REQUIREMENTS, [id=#151700]

(1426) PhotonShuffleExchangeSource

Input [2]: [party_id#12882, transaction_id#12892]

(1427) PhotonRowToColumnar

Input [2]: [fc_recorded_date#12898, fctransactionid#12901]

(1428) PhotonShuffleExchangeSink

Input [2]: [fc_recorded_date#12898, fctransactionid#12901]

Arguments: hashpartitioning(fctransactionid#12901, 200)

(1429) PhotonShuffleMapStage

Input [2]: [fc_recorded_date#12898, fctransactionid#12901]

Arguments: ENSURE_REQUIREMENTS, [id=#151705]

(1430) PhotonShuffleExchangeSource

Input [2]: [fc_recorded_date#12898, fctransactionid#12901]

(1431) PhotonShuffledHashJoin

Left keys [1]: [transaction_id#12892]

Right keys [1]: [fctransactionid#12901]

Join type: Inner

Join condition: None

(1432) PhotonProject

Input [4]: [party_id#12882, transaction_id#12892, fc_recorded_date#12898, fctransactionid#12901]

Arguments: [party_id#12882, fc_recorded_date#12898]

(1433) PhotonGroupingAgg

Input [2]: [party_id#12882, fc_recorded_date#12898]

Arguments: [party_id#12882], [partial_max(fc_recorded_date#12898) AS max#14223], [max#14223], [party_id#12882, max#14223], false

(1434) PhotonShuffleExchangeSink

Input [2]: [party_id#12882, max#14223]

Arguments: hashpartitioning(party_id#12882, 200)

(1435) PhotonShuffleMapStage

Input [2]: [party_id#12882, max#14223]

Arguments: ENSURE_REQUIREMENTS, [id=#151720]

(1436) PhotonShuffleExchangeSource

Input [2]: [party_id#12882, max#14223]

(1437) PhotonRowToColumnar

Input [2]: [party_id#12911, transaction_id#12912]

(1438) PhotonShuffleExchangeSink

Input [2]: [party_id#12911, transaction_id#12912]

Arguments: hashpartitioning(transaction_id#12912, 200)

(1439) PhotonShuffleMapStage

Input [2]: [party_id#12911, transaction_id#12912]

Arguments: ENSURE_REQUIREMENTS, [id=#151725]

(1440) PhotonShuffleExchangeSource

Input [2]: [party_id#12911, transaction_id#12912]

(1441) PhotonRowToColumnar

Input [1]: [fc_transaction_id#12915]

(1442) PhotonShuffleExchangeSink

Input [1]: [fc_transaction_id#12915]

Arguments: hashpartitioning(fc_transaction_id#12915, 200)

(1443) PhotonShuffleMapStage

Input [1]: [fc_transaction_id#12915]

Arguments: ENSURE_REQUIREMENTS, [id=#151730]

(1444) PhotonShuffleExchangeSource

Input [1]: [fc_transaction_id#12915]

(1445) PhotonShuffledHashJoin

Left keys [1]: [transaction_id#12912]

Right keys [1]: [fc_transaction_id#12915]

Join type: LeftSemi

Join condition: None

(1446) PhotonProject

Input [2]: [party_id#12911, transaction_id#12912]

Arguments: [party_id#12911]

(1447) PhotonGroupingAgg

Input [1]: [party_id#12911]

Arguments: [party_id#12911], [party_id#12911], false

(1448) PhotonShuffleExchangeSink

Input [1]: [party_id#12911]

Arguments: hashpartitioning(party_id#12911, 200)

(1449) PhotonShuffleMapStage

Input [1]: [party_id#12911]

Arguments: ENSURE_REQUIREMENTS, [id=#151740]

(1450) PhotonShuffleExchangeSource

Input [1]: [party_id#12911]

(1451) PhotonGroupingAgg

Input [1]: [party_id#12911]

Arguments: [party_id#12911], [party_id#12911], true

(1452) PhotonShuffleExchangeSink

Input [1]: [party_id#12911]

Arguments: hashpartitioning(party_id#12911, 200)

(1453) PhotonRowToColumnar

Input [2]: [party_id#12917, transaction_id#12918]

(1454) PhotonShuffleExchangeSink

Input [2]: [party_id#12917, transaction_id#12918]

Arguments: hashpartitioning(transaction_id#12918, 200)

(1455) PhotonShuffleMapStage

Input [2]: [party_id#12917, transaction_id#12918]

Arguments: ENSURE_REQUIREMENTS, [id=#151747]

(1456) PhotonShuffleExchangeSource

Input [2]: [party_id#12917, transaction_id#12918]

(1457) PhotonRowToColumnar
Input [1]: [fc_transaction_id#12921]

(1458) PhotonShuffleExchangeSink
Input [1]: [fc_transaction_id#12921]
Arguments: hashpartitioning(fc_transaction_id#12921, 200)

(1459) PhotonShuffleMapStage
Input [1]: [fc_transaction_id#12921]
Arguments: ENSURE_REQUIREMENTS, [id=#151752]

(1460) PhotonShuffleExchangeSource
Input [1]: [fc_transaction_id#12921]

(1461) PhotonShuffledHashJoin
Left keys [1]: [transaction_id#12918]
Right keys [1]: [fc_transaction_id#12921]
Join type: LeftSemi
Join condition: None

(1462) PhotonProject
Input [2]: [party_id#12917, transaction_id#12918]
Arguments: [party_id#12917]

(1463) PhotonGroupingAgg
Input [1]: [party_id#12917]
Arguments: [party_id#12917], [party_id#12917], false

(1464) PhotonShuffleExchangeSink
Input [1]: [party_id#12917]
Arguments: hashpartitioning(party_id#12917, 200)

(1465) PhotonShuffleMapStage
Input [1]: [party_id#12917]
Arguments: ENSURE_REQUIREMENTS, [id=#151762]

(1466) PhotonShuffleExchangeSource
Input [1]: [party_id#12917]

(1467) PhotonGroupingAgg
Input [1]: [party_id#12917]
Arguments: [party_id#12917], [party_id#12917], true

(1468) PhotonShuffleExchangeSink
Input [1]: [party_id#12917]
Arguments: hashpartitioning(party_id#12917, 200)

(1469) PhotonUnionShuffleExchangeSink

(1470) PhotonUnionShuffleMapStage
Input [1]: [party_id#12911]
Arguments: ENSURE_REQUIREMENTS, [id=#151773]

(1471) PhotonShuffleExchangeSource
Input [1]: [party_id#12911]

(1472) PhotonShuffledHashJoin
Left keys [1]: [party_id#12882]
Right keys [1]: [party_id#12911]
Join type: Inner
Join condition: None

(1473) PhotonProject
Input [3]: [party_id#12882, max#14223, party_id#12911]
Arguments: [party_id#12882, max#14223]

(1474) PhotonGroupingAgg
Input [2]: [party_id#12882, max#14223]
Arguments: [party_id#12882], [merge_max(merge max#14223) AS max#14223], [max#14223], [party_id#12882, max#14223], false

(1475) PhotonGroupingAgg
Input [2]: [party_id#12882, max#14223]
Arguments: [party_id#12882], [finalmerge_max(merge max#14223) AS max(fc_recorded_date#12898)#14061], [max(fc_recorded_date#12898)#14061], [party_id#12882, max(fc_recorded_date#12898)#14061], true

(1476) PhotonProject
Input [2]: [party_id#12882, max(fc_recorded_date#12898)#14061]
Arguments: [party_id#12882, max(fc_recorded_date#12898)#14061 AS Last Purchase Date#12994]

(1477) PhotonShuffledHashJoin
Left keys [1]: [party_id#12418]
Right keys [1]: [party_id#12882]

Join type: LeftOuter
Join condition: None

(1478) PhotonProject

Input [16]: [party_name#12417, party_id#12418, company_id#12419, deleted_at#12648, has_pdf#12649, Mortgage Transactions#12650L, Deed Transactions#12651L, Satisfaction of Mortgage Transactions#12652L, Assignment of Mortgage Transactions#12653L, lis_pendens_transactions#12654L, judgment_transactions#12655L, loan_modification_transactions#12656L, Most Recent Transaction#12879, fcdateupdated#12880, party_id#12882, Last Purchase Date#12994]

Arguments: [party_name#12417, party_id#12418, company_id#12419, deleted_at#12648, has_pdf#12649, Mortgage Transactions#12650L, Deed Transactions#12651L, Satisfaction of Mortgage Transactions#12652L, Assignment of Mortgage Transactions#12653L, lis_pendens_transactions#12654L, judgment_transactions#12655L, loan_modification_transactions#12656L, Most Recent Transaction#12879, fcdateupdated#12880, Last Purchase Date#12994]

(1479) PhotonLocalLimit

Input [15]: [party_name#12417, party_id#12418, company_id#12419, deleted_at#12648, has_pdf#12649, Mortgage Transactions#12650L, Deed Transactions#12651L, Satisfaction of Mortgage Transactions#12652L, Assignment of Mortgage Transactions#12653L, lis_pendens_transactions#12654L, judgment_transactions#12655L, loan_modification_transactions#12656L, Most Recent Transaction#12879, fcdateupdated#12880, Last Purchase Date#12994]

Arguments: 21

(1480) PhotonRowToColumnar

Input [1]: [party_id#12996]

(1481) PhotonShuffleExchangeSink

Input [1]: [party_id#12996]

Arguments: hashpartitioning(party_id#12996, 200)

(1482) PhotonShuffleMapStage

Input [1]: [party_id#12996]

Arguments: ENSURE_REQUIREMENTS, [id=#151803]

(1483) PhotonShuffleExchangeSource

Input [1]: [party_id#12996]

(1484) PhotonRowToColumnar

Input [2]: [party_id#13005, transaction_id#13006]

(1485) PhotonShuffleExchangeSink

Input [2]: [party_id#13005, transaction_id#13006]

Arguments: hashpartitioning(party_id#13005, 200)

(1486) PhotonShuffleMapStage

Input [2]: [party_id#13005, transaction_id#13006]

Arguments: ENSURE_REQUIREMENTS, [id=#151808]

(1487) PhotonShuffleExchangeSource

Input [2]: [party_id#13005, transaction_id#13006]

(1488) PhotonShuffledHashJoin

Left keys [1]: [party_id#12996]

Right keys [1]: [party_id#13005]

Join type: Inner

Join condition: None

(1489) PhotonProject

Input [3]: [party_id#12996, party_id#13005, transaction_id#13006]

Arguments: [party_id#12996, transaction_id#13006]

(1490) PhotonShuffleExchangeSink

Input [2]: [party_id#12996, transaction_id#13006]

Arguments: hashpartitioning(transaction_id#13006, 200)

(1491) PhotonShuffleMapStage

Input [2]: [party_id#12996, transaction_id#13006]

Arguments: ENSURE_REQUIREMENTS, [id=#151816]

(1492) PhotonShuffleExchangeSource

Input [2]: [party_id#12996, transaction_id#13006]

(1493) PhotonRowToColumnar

Input [2]: [fc_recorded_date#13012, fctransactionid#13015]

(1494) PhotonShuffleExchangeSink

Input [2]: [fc_recorded_date#13012, fctransactionid#13015]

Arguments: hashpartitioning(fctransactionid#13015, 200)

(1495) PhotonShuffleMapStage

Input [2]: [fc_recorded_date#13012, fctransactionid#13015]

Arguments: ENSURE_REQUIREMENTS, [id=#151821]

(1496) PhotonShuffleExchangeSource

Input [2]: [fc_recorded_date#13012, fctransactionid#13015]

(1497) PhotonShuffledHashJoin
Left keys [1]: [transaction_id#13006]
Right keys [1]: [fctransactionid#13015]
Join type: Inner
Join condition: None

(1498) PhotonProject
Input [4]: [party_id#12996, transaction_id#13006, fc_recorded_date#13012, fctransactionid#13015]
Arguments: [party_id#12996, fc_recorded_date#13012]

(1499) PhotonGroupingAgg
Input [2]: [party_id#12996, fc_recorded_date#13012]
Arguments: [party_id#12996], [partial_max(fc_recorded_date#13012) AS max#14228], [max#14228], [party_id#12996, max#14228], false

(1500) PhotonShuffleExchangeSink
Input [2]: [party_id#12996, max#14228]
Arguments: hashpartitioning(party_id#12996, 200)

(1501) PhotonShuffleMapStage
Input [2]: [party_id#12996, max#14228]
Arguments: ENSURE_REQUIREMENTS, [id=#151836]

(1502) PhotonShuffleExchangeSource
Input [2]: [party_id#12996, max#14228]

(1503) PhotonRowToColumnar
Input [2]: [party_id#13025, transaction_id#13026]

(1504) PhotonShuffleExchangeSink
Input [2]: [party_id#13025, transaction_id#13026]
Arguments: hashpartitioning(transaction_id#13026, 200)

(1505) PhotonShuffleMapStage
Input [2]: [party_id#13025, transaction_id#13026]
Arguments: ENSURE_REQUIREMENTS, [id=#151841]

(1506) PhotonShuffleExchangeSource
Input [2]: [party_id#13025, transaction_id#13026]

(1507) PhotonRowToColumnar
Input [1]: [fc_transaction_id#13029]

(1508) PhotonShuffleExchangeSink
Input [1]: [fc_transaction_id#13029]
Arguments: hashpartitioning(fc_transaction_id#13029, 200)

(1509) PhotonShuffleMapStage
Input [1]: [fc_transaction_id#13029]
Arguments: ENSURE_REQUIREMENTS, [id=#151846]

(1510) PhotonShuffleExchangeSource
Input [1]: [fc_transaction_id#13029]

(1511) PhotonShuffledHashJoin
Left keys [1]: [transaction_id#13026]
Right keys [1]: [fc_transaction_id#13029]
Join type: LeftSemi
Join condition: None

(1512) PhotonProject
Input [2]: [party_id#13025, transaction_id#13026]
Arguments: [party_id#13025]

(1513) PhotonGroupingAgg
Input [1]: [party_id#13025]
Arguments: [party_id#13025], [party_id#13025], false

(1514) PhotonShuffleExchangeSink
Input [1]: [party_id#13025]
Arguments: hashpartitioning(party_id#13025, 200)

(1515) PhotonShuffleMapStage
Input [1]: [party_id#13025]
Arguments: ENSURE_REQUIREMENTS, [id=#151856]

(1516) PhotonShuffleExchangeSource
Input [1]: [party_id#13025]

(1517) PhotonGroupingAgg
Input [1]: [party_id#13025]
Arguments: [party_id#13025], [party_id#13025], true

(1518) PhotonShuffleExchangeSink

Input [1]: [party_id#13025]
Arguments: hashpartitioning(party_id#13025, 200)

(1519) PhotonRowToColumnar
Input [2]: [party_id#13031, transaction_id#13032]

(1520) PhotonShuffleExchangeSink
Input [2]: [party_id#13031, transaction_id#13032]
Arguments: hashpartitioning(transaction_id#13032, 200)

(1521) PhotonShuffleMapStage
Input [2]: [party_id#13031, transaction_id#13032]
Arguments: ENSURE_REQUIREMENTS, [id=#151863]

(1522) PhotonShuffleExchangeSource
Input [2]: [party_id#13031, transaction_id#13032]

(1523) PhotonRowToColumnar
Input [1]: [fc_transaction_id#13035]

(1524) PhotonShuffleExchangeSink
Input [1]: [fc_transaction_id#13035]
Arguments: hashpartitioning(fc_transaction_id#13035, 200)

(1525) PhotonShuffleMapStage
Input [1]: [fc_transaction_id#13035]
Arguments: ENSURE_REQUIREMENTS, [id=#151868]

(1526) PhotonShuffleExchangeSource
Input [1]: [fc_transaction_id#13035]

(1527) PhotonShuffledHashJoin
Left keys [1]: [transaction_id#13032]
Right keys [1]: [fc_transaction_id#13035]
Join type: LeftSemi
Join condition: None

(1528) PhotonProject
Input [2]: [party_id#13031, transaction_id#13032]
Arguments: [party_id#13031]

(1529) PhotonGroupingAgg
Input [1]: [party_id#13031]
Arguments: [party_id#13031], [party_id#13031], false

(1530) PhotonShuffleExchangeSink
Input [1]: [party_id#13031]
Arguments: hashpartitioning(party_id#13031, 200)

(1531) PhotonShuffleMapStage
Input [1]: [party_id#13031]
Arguments: ENSURE_REQUIREMENTS, [id=#151878]

(1532) PhotonShuffleExchangeSource
Input [1]: [party_id#13031]

(1533) PhotonGroupingAgg
Input [1]: [party_id#13031]
Arguments: [party_id#13031], [party_id#13031], true

(1534) PhotonShuffleExchangeSink
Input [1]: [party_id#13031]
Arguments: hashpartitioning(party_id#13031, 200)

(1535) PhotonUnionShuffleExchangeSink

(1536) PhotonUnionShuffleMapStage
Input [1]: [party_id#13025]
Arguments: ENSURE_REQUIREMENTS, [id=#151889]

(1537) PhotonShuffleExchangeSource
Input [1]: [party_id#13025]

(1538) PhotonShuffledHashJoin
Left keys [1]: [party_id#12996]
Right keys [1]: [party_id#13025]
Join type: Inner
Join condition: None

(1539) PhotonProject
Input [3]: [party_id#12996, max#14228, party_id#13025]
Arguments: [party_id#12996, max#14228]

(1540) PhotonGroupingAgg
Input [2]: [party_id#12996, max#14228]
Arguments: [party_id#12996], [merge_max(merge max#14228) AS max#14228], [max#14228], [party_id#12996, max#14228], false

(1541) PhotonGroupingAgg
Input [2]: [party_id#12996, max#14228]
Arguments: [party_id#12996], [finalmerge_max(merge max#14228) AS max(fc_recorded_date#13012)#14062], [max(fc_recorded_date#13012)#14062], [party_id#12996, max(fc_recorded_date#13012)#14062], true

(1542) PhotonProject
Input [2]: [party_id#12996, max(fc_recorded_date#13012)#14062]
Arguments: [party_id#12996, max(fc_recorded_date#13012)#14062 AS Last Sale Date#13104]

(1543) PhotonShuffledHashJoin
Left keys [1]: [party_id#12418]
Right keys [1]: [party_id#12996]
Join type: LeftOuter
Join condition: None

(1544) PhotonProject
Input [17]: [party_name#12417, party_id#12418, company_id#12419, deleted_at#12648, has_pdf#12649, Mortgage Transactions#12650L, Deed Transactions#12651L, Satisfaction of Mortgage Transactions#12652L, Assignment of Mortgage Transactions#12653L, lis_pendens_transactions#12654L, judgment_transactions#12655L, loan_modification_transactions#12656L, Most Recent Transaction#12879, fcdateupdated#12880, Last Purchase Date#12994, party_id#12996, Last Sale Date#13104]
Arguments: [party_name#12417, party_id#12418, company_id#12419, deleted_at#12648, has_pdf#12649, Mortgage Transactions#12650L, Deed Transactions#12651L, Satisfaction of Mortgage Transactions#12652L, Assignment of Mortgage Transactions#12653L, lis_pendens_transactions#12654L, judgment_transactions#12655L, loan_modification_transactions#12656L, Most Recent Transaction#12879, fcdateupdated#12880, Last Purchase Date#12994, Last Sale Date#13104]

(1545) PhotonLocalLimit
Input [16]: [party_name#12417, party_id#12418, company_id#12419, deleted_at#12648, has_pdf#12649, Mortgage Transactions#12650L, Deed Transactions#12651L, Satisfaction of Mortgage Transactions#12652L, Assignment of Mortgage Transactions#12653L, lis_pendens_transactions#12654L, judgment_transactions#12655L, loan_modification_transactions#12656L, Most Recent Transaction#12879, fcdateupdated#12880, Last Purchase Date#12994, Last Sale Date#13104]
Arguments: 21

(1546) PhotonRowToColumnar
Input [5]: [party_name#13105, party_id#13106, company_id#13107, deleted_at#13108, updated_at#13109]

(1547) PhotonShuffleExchangeSink
Input [5]: [party_name#13105, party_id#13106, company_id#13107, deleted_at#13108, updated_at#13109]
Arguments: hashpartitioning(party_id#13106, 200)

(1548) PhotonShuffleMapStage
Input [5]: [party_name#13105, party_id#13106, company_id#13107, deleted_at#13108, updated_at#13109]
Arguments: ENSURE_REQUIREMENTS, [id=#151919]

(1549) PhotonShuffleExchangeSource
Input [5]: [party_name#13105, party_id#13106, company_id#13107, deleted_at#13108, updated_at#13109]

(1550) PhotonRowToColumnar
Input [2]: [party_id#13115, transaction_id#13116]

(1551) PhotonShuffleExchangeSink
Input [2]: [party_id#13115, transaction_id#13116]
Arguments: hashpartitioning(party_id#13115, 200)

(1552) PhotonShuffleMapStage
Input [2]: [party_id#13115, transaction_id#13116]
Arguments: ENSURE_REQUIREMENTS, [id=#151924]

(1553) PhotonShuffleExchangeSource
Input [2]: [party_id#13115, transaction_id#13116]

(1554) PhotonShuffledHashJoin
Left keys [1]: [party_id#13106]
Right keys [1]: [party_id#13115]
Join type: Inner
Join condition: None

(1555) PhotonProject
Input [7]: [party_name#13105, party_id#13106, company_id#13107, deleted_at#13108, updated_at#13109, party_id#13115, transaction_id#13116]
Arguments: [party_id#13106, party_name#13105, company_id#13107, deleted_at#13108, updated_at#13109, transaction_id#13116]

(1556) PhotonGroupingAgg
Input [6]: [party_id#13106, party_name#13105, company_id#13107, deleted_at#13108, updated_at#13109, transaction_id#13116]
Arguments: [party_name#13105, party_id#13106, company_id#13107, deleted_at#13108, transaction_id#13116, updated_at#13109], [party_name#13105, party_id#13106, company_id#13107, deleted_at#13108, transaction_id#13116, updated_at#13109], false

(1557) PhotonShuffleExchangeSink
Input [6]: [party_name#13105, party_id#13106, company_id#13107, deleted_at#13108, transaction_id#13116, updated_at#13109]
Arguments: hashpartitioning(transaction_id#13116, 200)

(1558) PhotonShuffleMapStage
Input [6]: [party_name#13105, party_id#13106, company_id#13107, deleted_at#13108, transaction_id#13116, updated_at#13109]
Arguments: ENSURE_REQUIREMENTS, [id=#151934]

(1559) PhotonShuffleExchangeSource
Input [6]: [party_name#13105, party_id#13106, company_id#13107, deleted_at#13108, transaction_id#13116, updated_at#13109]

(1560) PhotonRowToColumnar
Input [7]: [county#13119, transaction_type#13120, fc_transaction_date#13121, fc_recorded_date#13122, fcdateupdated#13124, fctransactionid#13125, pdf_id#13126]

(1561) PhotonShuffleExchangeSink
Input [7]: [county#13119, transaction_type#13120, fc_transaction_date#13121, fc_recorded_date#13122, fcdateupdated#13124, fctransactionid#13125, pdf_id#13126]
Arguments: hashpartitioning(fctransactionid#13125, 200)

(1562) PhotonShuffleMapStage
Input [7]: [county#13119, transaction_type#13120, fc_transaction_date#13121, fc_recorded_date#13122, fcdateupdated#13124, fctransactionid#13125, pdf_id#13126]
Arguments: ENSURE_REQUIREMENTS, [id=#151939]

(1563) PhotonShuffleExchangeSource
Input [7]: [county#13119, transaction_type#13120, fc_transaction_date#13121, fc_recorded_date#13122, fcdateupdated#13124, fctransactionid#13125, pdf_id#13126]

(1564) PhotonShuffledHashJoin
Left keys [1]: [transaction_id#13116]
Right keys [1]: [fctransactionid#13125]
Join type: Inner
Join condition: None

(1565) PhotonProject
Input [13]: [party_name#13105, party_id#13106, company_id#13107, deleted_at#13108, transaction_id#13116, updated_at#13109, county#13119, transaction_type#13120, fc_transaction_date#13121, fc_recorded_date#13122, fcdateupdated#13124, fctransactionid#13125, pdf_id#13126]
Arguments: [party_name#13105, party_id#13106, company_id#13107, deleted_at#13108, county#13119, transaction_type#13120, fc_transaction_date#13121, fc_recorded_date#13122, greatest(fcdateupdated#13124, updated_at#13109) AS fcdateupdated#13165, fctransactionid#13125, pdf_id#13126]

(1566) PhotonGroupingAgg
Input [11]: [party_name#13105, party_id#13106, company_id#13107, deleted_at#13108, county#13119, transaction_type#13120, fc_transaction_date#13121, fc_recorded_date#13122, fcdateupdated#13165, fctransactionid#13125, pdf_id#13126]
Arguments: [party_name#13105, party_id#13106, company_id#13107, deleted_at#13108, county#13119, transaction_type#13120, fc_transaction_date#13121, fc_recorded_date#13122, fcdateupdated#13165, fctransactionid#13125, pdf_id#13126], [party_name#13105, party_id#13106, company_id#13107, deleted_at#13108, county#13119, transaction_type#13120, fc_transaction_date#13121, fc_recorded_date#13122, fcdateupdated#13165, fctransactionid#13125, pdf_id#13126], false

(1567) PhotonShuffleExchangeSink
Input [11]: [party_name#13105, party_id#13106, company_id#13107, deleted_at#13108, county#13119, transaction_type#13120, fc_transaction_date#13121, fc_recorded_date#13122, fcdateupdated#13165, fctransactionid#13125, pdf_id#13126]
Arguments: hashpartitioning(party_id#13106, 200)

(1568) PhotonShuffleMapStage
Input [11]: [party_name#13105, party_id#13106, company_id#13107, deleted_at#13108, county#13119, transaction_type#13120, fc_transaction_date#13121, fc_recorded_date#13122, fcdateupdated#13165, fctransactionid#13125, pdf_id#13126]
Arguments: ENSURE_REQUIREMENTS, [id=#151950]

(1569) PhotonShuffleExchangeSource
Input [11]: [party_name#13105, party_id#13106, company_id#13107, deleted_at#13108, county#13119, transaction_type#13120, fc_transaction_date#13121, fc_recorded_date#13122, fcdateupdated#13165, fctransactionid#13125, pdf_id#13126]

(1570) PhotonRowToColumnar
Input [2]: [party_id#13135, transaction_id#13136]

(1571) PhotonShuffleExchangeSink
Input [2]: [party_id#13135, transaction_id#13136]
Arguments: hashpartitioning(transaction_id#13136, 200)

(1572) PhotonShuffleMapStage
Input [2]: [party_id#13135, transaction_id#13136]
Arguments: ENSURE_REQUIREMENTS, [id=#151955]

(1573) PhotonShuffleExchangeSource
Input [2]: [party_id#13135, transaction_id#13136]

(1574) PhotonRowToColumnar
Input [1]: [fc_transaction_id#13139]

(1575) PhotonShuffleExchangeSink
Input [1]: [fc_transaction_id#13139]
Arguments: hashpartitioning(fc_transaction_id#13139, 200)

(1576) PhotonShuffleMapStage
Input [1]: [fc_transaction_id#13139]

Arguments: ENSURE_REQUIREMENTS, [id=#151960]

(1577) PhotonShuffleExchangeSource
Input [1]: [fc_transaction_id#13139]

(1578) PhotonShuffledHashJoin
Left keys [1]: [transaction_id#13136]
Right keys [1]: [fc_transaction_id#13139]
Join type: LeftSemi
Join condition: None

(1579) PhotonProject
Input [2]: [party_id#13135, transaction_id#13136]
Arguments: [party_id#13135]

(1580) PhotonGroupingAgg
Input [1]: [party_id#13135]
Arguments: [party_id#13135], [party_id#13135], false

(1581) PhotonShuffleExchangeSink
Input [1]: [party_id#13135]
Arguments: hashpartitioning(party_id#13135, 200)

(1582) PhotonShuffleMapStage
Input [1]: [party_id#13135]
Arguments: ENSURE_REQUIREMENTS, [id=#151970]

(1583) PhotonShuffleExchangeSource
Input [1]: [party_id#13135]

(1584) PhotonGroupingAgg
Input [1]: [party_id#13135]
Arguments: [party_id#13135], [party_id#13135], true

(1585) PhotonGroupingAgg
Input [1]: [party_id#13135]
Arguments: [party_id#13135], [party_id#13135], false

(1586) PhotonShuffleExchangeSink
Input [1]: [party_id#13135]
Arguments: hashpartitioning(party_id#13135, 200)

(1587) PhotonRowToColumnar
Input [2]: [party_id#13141, transaction_id#13142]

(1588) PhotonShuffleExchangeSink
Input [2]: [party_id#13141, transaction_id#13142]
Arguments: hashpartitioning(transaction_id#13142, 200)

(1589) PhotonShuffleMapStage
Input [2]: [party_id#13141, transaction_id#13142]
Arguments: ENSURE_REQUIREMENTS, [id=#151979]

(1590) PhotonShuffleExchangeSource
Input [2]: [party_id#13141, transaction_id#13142]

(1591) PhotonRowToColumnar
Input [1]: [fc_transaction_id#13145]

(1592) PhotonShuffleExchangeSink
Input [1]: [fc_transaction_id#13145]
Arguments: hashpartitioning(fc_transaction_id#13145, 200)

(1593) PhotonShuffleMapStage
Input [1]: [fc_transaction_id#13145]
Arguments: ENSURE_REQUIREMENTS, [id=#151984]

(1594) PhotonShuffleExchangeSource
Input [1]: [fc_transaction_id#13145]

(1595) PhotonShuffledHashJoin
Left keys [1]: [transaction_id#13142]
Right keys [1]: [fc_transaction_id#13145]
Join type: LeftSemi
Join condition: None

(1596) PhotonProject
Input [2]: [party_id#13141, transaction_id#13142]
Arguments: [party_id#13141]

(1597) PhotonGroupingAgg
Input [1]: [party_id#13141]
Arguments: [party_id#13141], [party_id#13141], false

(1598) PhotonShuffleExchangeSink
Input [1]: [party_id#13141]
Arguments: hashpartitioning(party_id#13141, 200)

(1599) PhotonShuffleMapStage
Input [1]: [party_id#13141]
Arguments: ENSURE_REQUIREMENTS, [id=#151994]

(1600) PhotonShuffleExchangeSource
Input [1]: [party_id#13141]

(1601) PhotonGroupingAgg
Input [1]: [party_id#13141]
Arguments: [party_id#13141], [party_id#13141], true

(1602) PhotonGroupingAgg
Input [1]: [party_id#13141]
Arguments: [party_id#13141], [party_id#13141], false

(1603) PhotonShuffleExchangeSink
Input [1]: [party_id#13141]
Arguments: hashpartitioning(party_id#13141, 200)

(1604) PhotonUnionShuffleExchangeSink

(1605) PhotonUnionShuffleMapStage
Input [1]: [party_id#13135]
Arguments: ENSURE_REQUIREMENTS, [id=#152007]

(1606) PhotonShuffleExchangeSource
Input [1]: [party_id#13135]

(1607) PhotonShuffledHashJoin
Left keys [1]: [party_id#13106]
Right keys [1]: [party_id#13135]
Join type: LeftSemi
Join condition: None

(1608) PhotonGroupingAgg
Input [11]: [party_name#13105, party_id#13106, company_id#13107, deleted_at#13108, county#13119, transaction_type#13120, fc_transaction_date#13121, fc_recorded_date#13122, fcdateupdated#13165, fctransactionid#13125, pdf_id#13126]
Arguments: [party_name#13105, party_id#13106, company_id#13107, deleted_at#13108, county#13119, transaction_type#13120, fc_transaction_date#13121, fc_recorded_date#13122, fcdateupdated#13165, fctransactionid#13125, pdf_id#13126], [party_name#13105, party_id#13106, company_id#13107, deleted_at#13108, county#13119, transaction_type#13120, fc_transaction_date#13121, fc_recorded_date#13122, fcdateupdated#13165, fctransactionid#13125, pdf_id#13126], false

(1609) PhotonShuffleExchangeSink
Input [11]: [party_name#13105, party_id#13106, company_id#13107, deleted_at#13108, county#13119, transaction_type#13120, fc_transaction_date#13121, fc_recorded_date#13122, fcdateupdated#13165, fctransactionid#13125, pdf_id#13126]
Arguments: hashpartitioning(pdf_id#13126, 200)

(1610) PhotonShuffleMapStage
Input [11]: [party_name#13105, party_id#13106, company_id#13107, deleted_at#13108, county#13119, transaction_type#13120, fc_transaction_date#13121, fc_recorded_date#13122, fcdateupdated#13165, fctransactionid#13125, pdf_id#13126]
Arguments: ENSURE_REQUIREMENTS, [id=#152020]

(1611) PhotonShuffleExchangeSource
Input [11]: [party_name#13105, party_id#13106, company_id#13107, deleted_at#13108, county#13119, transaction_type#13120, fc_transaction_date#13121, fc_recorded_date#13122, fcdateupdated#13165, fctransactionid#13125, pdf_id#13126]

(1612) PhotonRowToColumnar
Input [1]: [pdf_id#13147]

(1613) PhotonShuffleExchangeSink
Input [1]: [pdf_id#13147]
Arguments: hashpartitioning(pdf_id#13147, 200)

(1614) PhotonShuffleMapStage
Input [1]: [pdf_id#13147]
Arguments: ENSURE_REQUIREMENTS, [id=#152025]

(1615) PhotonShuffleExchangeSource
Input [1]: [pdf_id#13147]

(1616) PhotonShuffledHashJoin
Left keys [1]: [pdf_id#13126]
Right keys [1]: [pdf_id#13147]
Join type: LeftOuter
Join condition: None

(1617) PhotonProject
Input [12]: [party_name#13105, party_id#13106, company_id#13107, deleted_at#13108, county#13119, transaction_type#13120,

fc_transaction_date#13121, fc_recorded_date#13122, fcdateupdated#13165, fctransactionid#13125, pdf_id#13126, pdf_id#13147]
Arguments: [party_name#13105, party_id#13106, company_id#13107, deleted_at#13108, county#13119, transaction_type#13120,
fc_transaction_date#13121, fc_recorded_date#13122, fcdateupdated#13165, fctransactionid#13125, ((isnotnull(pdf_id#13147) AND
(transaction_type#13120 = MORTGAGE)) <=> true) AS has_pdf#13197]

(1618) PhotonGroupingAgg

Input [11]: [party_name#13105, party_id#13106, company_id#13107, deleted_at#13108, county#13119, transaction_type#13120,
fc_transaction_date#13121, fc_recorded_date#13122, fcdateupdated#13165, fctransactionid#13125, has_pdf#13197]
Arguments: [party_name#13105, party_id#13106, company_id#13107, deleted_at#13108, county#13119, transaction_type#13120,
fc_transaction_date#13121, fc_recorded_date#13122, fcdateupdated#13165, fctransactionid#13125, has_pdf#13197], [party_name#13105,
party_id#13106, company_id#13107, deleted_at#13108, county#13119, transaction_type#13120, fc_transaction_date#13121,
fc_recorded_date#13122, fcdateupdated#13165, fctransactionid#13125, has_pdf#13197], false

(1619) PhotonShuffleExchangeSink

Input [11]: [party_name#13105, party_id#13106, company_id#13107, deleted_at#13108, county#13119, transaction_type#13120,
fc_transaction_date#13121, fc_recorded_date#13122, fcdateupdated#13165, fctransactionid#13125, has_pdf#13197]
Arguments: hashpartitioning(party_name#13105, party_id#13106, company_id#13107, deleted_at#13108, county#13119, transaction_type#13120,
fc_transaction_date#13121, fc_recorded_date#13122, fcdateupdated#13165, fctransactionid#13125, has_pdf#13197, 200)

(1620) PhotonShuffleMapStage

Input [11]: [party_name#13105, party_id#13106, company_id#13107, deleted_at#13108, county#13119, transaction_type#13120,
fc_transaction_date#13121, fc_recorded_date#13122, fcdateupdated#13165, fctransactionid#13125, has_pdf#13197]
Arguments: ENSURE_REQUIREMENTS, [id=#152036]

(1621) PhotonShuffleExchangeSource

Input [11]: [party_name#13105, party_id#13106, company_id#13107, deleted_at#13108, county#13119, transaction_type#13120,
fc_transaction_date#13121, fc_recorded_date#13122, fcdateupdated#13165, fctransactionid#13125, has_pdf#13197]

(1622) PhotonGroupingAgg

Input [11]: [party_name#13105, party_id#13106, company_id#13107, deleted_at#13108, county#13119, transaction_type#13120,
fc_transaction_date#13121, fc_recorded_date#13122, fcdateupdated#13165, fctransactionid#13125, has_pdf#13197]
Arguments: [party_name#13105, party_id#13106, company_id#13107, deleted_at#13108, county#13119, transaction_type#13120,
fc_transaction_date#13121, fc_recorded_date#13122, fcdateupdated#13165, fctransactionid#13125, has_pdf#13197], [party_name#13105,
party_id#13106, transaction_type#13120], true

(1623) PhotonGroupingAgg

Input [3]: [party_name#13105, party_id#13106, transaction_type#13120]
Arguments: [party_name#13105, party_id#13106, Transaction_Type#13120], [partial_count(1) AS count#14237L], [count#14236L],
[party_name#13105, party_id#13106, Transaction_Type#13120, count#14237L], false

(1624) PhotonShuffleExchangeSink

Input [4]: [party_name#13105, party_id#13106, Transaction_Type#13120, count#14237L]
Arguments: hashpartitioning(party_name#13105, party_id#13106, Transaction_Type#13120, 200)

(1625) PhotonShuffleMapStage

Input [4]: [party_name#13105, party_id#13106, Transaction_Type#13120, count#14237L]
Arguments: ENSURE_REQUIREMENTS, [id=#152044]

(1626) PhotonShuffleExchangeSource

Input [4]: [party_name#13105, party_id#13106, Transaction_Type#13120, count#14237L]

(1627) PhotonGroupingAgg

Input [4]: [party_name#13105, party_id#13106, Transaction_Type#13120, count#14237L]
Arguments: [party_name#13105, party_id#13106, Transaction_Type#13120], [finalmerge_count(merge count#14237L) AS count(1)#14054L],
[count(1)#14054L], [party_name#13105, party_id#13106, CASE WHEN (Transaction_Type#13120 = DEED) THEN count(1)#14054L END AS Transactions
as Seller#13215L, CASE WHEN (Transaction_Type#13120 = MORTGAGE) THEN count(1)#14054L END AS Transactions as Borrower#13216L], true

(1628) PhotonGroupingAgg

Input [4]: [party_name#13105, party_id#13106, Transactions as Seller#13215L, Transactions as Borrower#13216L]
Arguments: [party_name#13105, party_id#13106], [partial_sum(Transactions as Seller#13215L) AS sum#14233L, partial_sum(Transactions as
Borrower#13216L) AS sum#14235L], [sum#14232L, sum#14234L], [party_name#13105, party_id#13106, sum#14233L, sum#14235L], false

(1629) PhotonShuffleExchangeSink

Input [4]: [party_name#13105, party_id#13106, sum#14233L, sum#14235L]
Arguments: hashpartitioning(party_name#13105, party_id#13106, 200)

(1630) PhotonShuffleMapStage

Input [4]: [party_name#13105, party_id#13106, sum#14233L, sum#14235L]
Arguments: ENSURE_REQUIREMENTS, [id=#152052]

(1631) PhotonShuffleExchangeSource

Input [4]: [party_name#13105, party_id#13106, sum#14233L, sum#14235L]

(1632) PhotonGroupingAgg

Input [4]: [party_name#13105, party_id#13106, sum#14233L, sum#14235L]
Arguments: [party_name#13105, party_id#13106], [finalmerge_sum(merge sum#14233L) AS sum(Transactions as Seller#13215L)#14078L,
finalmerge_sum(merge sum#14235L) AS sum(Transactions as Borrower#13216L)#14079L], [sum(Transactions as Seller#13215L)#14078L,
sum(Transactions as Borrower#13216L)#14079L], [party_id#13106, sum(Transactions as Seller#13215L)#14078L AS Transactions as Seller#13217L,
sum(Transactions as Borrower#13216L)#14079L AS Transactions as Borrower#13218L], true

(1633) PhotonShuffleExchangeSink

Input [3]: [party_id#13106, Transactions as Seller#13217L, Transactions as Borrower#13218L]
Arguments: hashpartitioning(party_id#13106, 200)

(1634) PhotonShuffleMapStage

Input [3]: [party_id#13106, Transactions as Seller#13217L, Transactions as Borrower#13218L]

Arguments: ENSURE_REQUIREMENTS, [id=#152058]

(1635) PhotonShuffleExchangeSource

Input [3]: [party_id#13106, Transactions as Seller#13217L, Transactions as Borrower#13218L]

(1636) PhotonShuffledHashJoin

Left keys [1]: [party_id#12418]

Right keys [1]: [party_id#13106]

Join type: LeftOuter

Join condition: None

(1637) PhotonProject

Input [19]: [party_name#12417, party_id#12418, company_id#12419, deleted_at#12648, has_pdf#12649, Mortgage Transactions#12650L, Deed Transactions#12651L, Satisfaction of Mortgage Transactions#12652L, Assignment of Mortgage Transactions#12653L, lis_pendens_transactions#12654L, judgment_transactions#12655L, loan_modification_transactions#12656L, Most Recent Transaction#12879, fdateupdated#12880, Last Purchase Date#12994, Last Sale Date#13104, party_id#13106, Transactions as Seller#13217L, Transactions as Borrower#13218L]

Arguments: [party_name#12417, party_id#12418, company_id#12419, deleted_at#12648, has_pdf#12649, Mortgage Transactions#12650L, Deed Transactions#12651L, Satisfaction of Mortgage Transactions#12652L, Assignment of Mortgage Transactions#12653L, lis_pendens_transactions#12654L, judgment_transactions#12655L, loan_modification_transactions#12656L, Most Recent Transaction#12879, fdateupdated#12880, Last Purchase Date#12994, Last Sale Date#13104, Transactions as Seller#13217L, Transactions as Borrower#13218L]

(1638) PhotonLocalLimit

Input [18]: [party_name#12417, party_id#12418, company_id#12419, deleted_at#12648, has_pdf#12649, Mortgage Transactions#12650L, Deed Transactions#12651L, Satisfaction of Mortgage Transactions#12652L, Assignment of Mortgage Transactions#12653L, lis_pendens_transactions#12654L, judgment_transactions#12655L, loan_modification_transactions#12656L, Most Recent Transaction#12879, fdateupdated#12880, Last Purchase Date#12994, Last Sale Date#13104, Transactions as Seller#13217L, Transactions as Borrower#13218L]

Arguments: 21

(1639) PhotonRowToColumnar

Input [5]: [party_name#13220, party_id#13221, company_id#13222, deleted_at#13223, updated_at#13224]

(1640) PhotonShuffleExchangeSink

Input [5]: [party_name#13220, party_id#13221, company_id#13222, deleted_at#13223, updated_at#13224]

Arguments: hashpartitioning(party_id#13221, 200)

(1641) PhotonShuffleMapStage

Input [5]: [party_name#13220, party_id#13221, company_id#13222, deleted_at#13223, updated_at#13224]

Arguments: ENSURE_REQUIREMENTS, [id=#152072]

(1642) PhotonShuffleExchangeSource

Input [5]: [party_name#13220, party_id#13221, company_id#13222, deleted_at#13223, updated_at#13224]

(1643) PhotonRowToColumnar

Input [2]: [party_id#13230, transaction_id#13231]

(1644) PhotonShuffleExchangeSink

Input [2]: [party_id#13230, transaction_id#13231]

Arguments: hashpartitioning(party_id#13230, 200)

(1645) PhotonShuffleMapStage

Input [2]: [party_id#13230, transaction_id#13231]

Arguments: ENSURE_REQUIREMENTS, [id=#152077]

(1646) PhotonShuffleExchangeSource

Input [2]: [party_id#13230, transaction_id#13231]

(1647) PhotonShuffledHashJoin

Left keys [1]: [party_id#13221]

Right keys [1]: [party_id#13230]

Join type: Inner

Join condition: None

(1648) PhotonProject

Input [7]: [party_name#13220, party_id#13221, company_id#13222, deleted_at#13223, updated_at#13224, party_id#13230, transaction_id#13231]

Arguments: [party_id#13221, party_name#13220, company_id#13222, deleted_at#13223, updated_at#13224, transaction_id#13231]

(1649) PhotonGroupingAgg

Input [6]: [party_id#13221, party_name#13220, company_id#13222, deleted_at#13223, updated_at#13224, transaction_id#13231]

Arguments: [party_name#13220, party_id#13221, company_id#13222, deleted_at#13223, transaction_id#13231, updated_at#13224], [party_name#13220, party_id#13221, company_id#13222, deleted_at#13223, transaction_id#13231, updated_at#13224], false

(1650) PhotonShuffleExchangeSink

Input [6]: [party_name#13220, party_id#13221, company_id#13222, deleted_at#13223, transaction_id#13231, updated_at#13224]

Arguments: hashpartitioning(transaction_id#13231, 200)

(1651) PhotonShuffleMapStage

Input [6]: [party_name#13220, party_id#13221, company_id#13222, deleted_at#13223, transaction_id#13231, updated_at#13224]

Arguments: ENSURE_REQUIREMENTS, [id=#152087]

(1652) PhotonShuffleExchangeSource
Input [6]: [party_name#13220, party_id#13221, company_id#13222, deleted_at#13223, transaction_id#13231, updated_at#13224]

(1653) PhotonRowToColumnar
Input [7]: [county#13234, transaction_type#13235, fc_transaction_date#13236, fc_recorded_date#13237, fcdateupdated#13239, fctransactionid#13240, pdf_id#13241]

(1654) PhotonShuffleExchangeSink
Input [7]: [county#13234, transaction_type#13235, fc_transaction_date#13236, fc_recorded_date#13237, fcdateupdated#13239, fctransactionid#13240, pdf_id#13241]
Arguments: hashpartitioning(fctransactionid#13240, 200)

(1655) PhotonShuffleMapStage
Input [7]: [county#13234, transaction_type#13235, fc_transaction_date#13236, fc_recorded_date#13237, fcdateupdated#13239, fctransactionid#13240, pdf_id#13241]
Arguments: ENSURE_REQUIREMENTS, [id=#152092]

(1656) PhotonShuffleExchangeSource
Input [7]: [county#13234, transaction_type#13235, fc_transaction_date#13236, fc_recorded_date#13237, fcdateupdated#13239, fctransactionid#13240, pdf_id#13241]

(1657) PhotonShuffledHashJoin
Left keys [1]: [transaction_id#13231]
Right keys [1]: [fctransactionid#13240]
Join type: Inner
Join condition: None

(1658) PhotonProject
Input [13]: [party_name#13220, party_id#13221, company_id#13222, deleted_at#13223, transaction_id#13231, updated_at#13224, county#13234, transaction_type#13235, fc_transaction_date#13236, fc_recorded_date#13237, fcdateupdated#13239, fctransactionid#13240, pdf_id#13241]
Arguments: [party_name#13220, party_id#13221, company_id#13222, deleted_at#13223, county#13234, transaction_type#13235, fc_transaction_date#13236, fc_recorded_date#13237, greatest(fcdateupdated#13239, updated_at#13224) AS fcdateupdated#13281, fctransactionid#13240, pdf_id#13241]

(1659) PhotonGroupingAgg
Input [11]: [party_name#13220, party_id#13221, company_id#13222, deleted_at#13223, county#13234, transaction_type#13235, fc_transaction_date#13236, fc_recorded_date#13237, fcdateupdated#13281, fctransactionid#13240, pdf_id#13241]
Arguments: [party_name#13220, party_id#13221, company_id#13222, deleted_at#13223, county#13234, transaction_type#13235, fc_transaction_date#13236, fc_recorded_date#13237, fcdateupdated#13281, fctransactionid#13240, pdf_id#13241], [party_name#13220, party_id#13221, company_id#13222, deleted_at#13223, county#13234, transaction_type#13235, fc_transaction_date#13236, fc_recorded_date#13237, fcdateupdated#13281, fctransactionid#13240, pdf_id#13241], false

(1660) PhotonShuffleExchangeSink
Input [11]: [party_name#13220, party_id#13221, company_id#13222, deleted_at#13223, county#13234, transaction_type#13235, fc_transaction_date#13236, fc_recorded_date#13237, fcdateupdated#13281, fctransactionid#13240, pdf_id#13241]
Arguments: hashpartitioning(party_id#13221, 200)

(1661) PhotonShuffleMapStage
Input [11]: [party_name#13220, party_id#13221, company_id#13222, deleted_at#13223, county#13234, transaction_type#13235, fc_transaction_date#13236, fc_recorded_date#13237, fcdateupdated#13281, fctransactionid#13240, pdf_id#13241]
Arguments: ENSURE_REQUIREMENTS, [id=#152103]

(1662) PhotonShuffleExchangeSource
Input [11]: [party_name#13220, party_id#13221, company_id#13222, deleted_at#13223, county#13234, transaction_type#13235, fc_transaction_date#13236, fc_recorded_date#13237, fcdateupdated#13281, fctransactionid#13240, pdf_id#13241]

(1663) PhotonRowToColumnar
Input [2]: [party_id#13250, transaction_id#13251]

(1664) PhotonShuffleExchangeSink
Input [2]: [party_id#13250, transaction_id#13251]
Arguments: hashpartitioning(transaction_id#13251, 200)

(1665) PhotonShuffleMapStage
Input [2]: [party_id#13250, transaction_id#13251]
Arguments: ENSURE_REQUIREMENTS, [id=#152108]

(1666) PhotonShuffleExchangeSource
Input [2]: [party_id#13250, transaction_id#13251]

(1667) PhotonRowToColumnar
Input [1]: [fc_transaction_id#13254]

(1668) PhotonShuffleExchangeSink
Input [1]: [fc_transaction_id#13254]
Arguments: hashpartitioning(fc_transaction_id#13254, 200)

(1669) PhotonShuffleMapStage
Input [1]: [fc_transaction_id#13254]
Arguments: ENSURE_REQUIREMENTS, [id=#152113]

(1670) PhotonShuffleExchangeSource
Input [1]: [fc_transaction_id#13254]

(1671) PhotonShuffledHashJoin
Left keys [1]: [transaction_id#13251]
Right keys [1]: [fc_transaction_id#13254]
Join type: LeftSemi
Join condition: None

(1672) PhotonProject
Input [2]: [party_id#13250, transaction_id#13251]
Arguments: [party_id#13250]

(1673) PhotonGroupingAgg
Input [1]: [party_id#13250]
Arguments: [party_id#13250], [party_id#13250], false

(1674) PhotonShuffleExchangeSink
Input [1]: [party_id#13250]
Arguments: hashpartitioning(party_id#13250, 200)

(1675) PhotonShuffleMapStage
Input [1]: [party_id#13250]
Arguments: ENSURE_REQUIREMENTS, [id=#152123]

(1676) PhotonShuffleExchangeSource
Input [1]: [party_id#13250]

(1677) PhotonGroupingAgg
Input [1]: [party_id#13250]
Arguments: [party_id#13250], [party_id#13250], true

(1678) PhotonGroupingAgg
Input [1]: [party_id#13250]
Arguments: [party_id#13250], [party_id#13250], false

(1679) PhotonShuffleExchangeSink
Input [1]: [party_id#13250]
Arguments: hashpartitioning(party_id#13250, 200)

(1680) PhotonRowToColumnar
Input [2]: [party_id#13256, transaction_id#13257]

(1681) PhotonShuffleExchangeSink
Input [2]: [party_id#13256, transaction_id#13257]
Arguments: hashpartitioning(transaction_id#13257, 200)

(1682) PhotonShuffleMapStage
Input [2]: [party_id#13256, transaction_id#13257]
Arguments: ENSURE_REQUIREMENTS, [id=#152132]

(1683) PhotonShuffleExchangeSource
Input [2]: [party_id#13256, transaction_id#13257]

(1684) PhotonRowToColumnar
Input [1]: [fc_transaction_id#13260]

(1685) PhotonShuffleExchangeSink
Input [1]: [fc_transaction_id#13260]
Arguments: hashpartitioning(fc_transaction_id#13260, 200)

(1686) PhotonShuffleMapStage
Input [1]: [fc_transaction_id#13260]
Arguments: ENSURE_REQUIREMENTS, [id=#152137]

(1687) PhotonShuffleExchangeSource
Input [1]: [fc_transaction_id#13260]

(1688) PhotonShuffledHashJoin
Left keys [1]: [transaction_id#13257]
Right keys [1]: [fc_transaction_id#13260]
Join type: LeftSemi
Join condition: None

(1689) PhotonProject
Input [2]: [party_id#13256, transaction_id#13257]
Arguments: [party_id#13256]

(1690) PhotonGroupingAgg
Input [1]: [party_id#13256]
Arguments: [party_id#13256], [party_id#13256], false

(1691) PhotonShuffleExchangeSink
Input [1]: [party_id#13256]
Arguments: hashpartitioning(party_id#13256, 200)

(1692) PhotonShuffleMapStage
Input [1]: [party_id#13256]
Arguments: ENSURE_REQUIREMENTS, [id=#152147]

(1693) PhotonShuffleExchangeSource
Input [1]: [party_id#13256]

(1694) PhotonGroupingAgg
Input [1]: [party_id#13256]
Arguments: [party_id#13256], [party_id#13256], true

(1695) PhotonGroupingAgg
Input [1]: [party_id#13256]
Arguments: [party_id#13256], [party_id#13256], false

(1696) PhotonShuffleExchangeSink
Input [1]: [party_id#13256]
Arguments: hashpartitioning(party_id#13256, 200)

(1697) PhotonUnionShuffleExchangeSink

(1698) PhotonUnionShuffleMapStage
Input [1]: [party_id#13250]
Arguments: ENSURE_REQUIREMENTS, [id=#152160]

(1699) PhotonShuffleExchangeSource
Input [1]: [party_id#13250]

(1700) PhotonShuffledHashJoin
Left keys [1]: [party_id#13221]
Right keys [1]: [party_id#13250]
Join type: LeftSemi
Join condition: None

(1701) PhotonGroupingAgg
Input [1]: [party_name#13220, party_id#13221, company_id#13222, deleted_at#13223, county#13234, transaction_type#13235, fc_transaction_date#13236, fc_recorded_date#13237, fcdateupdated#13281, fctransactionid#13240, pdf_id#13241]
Arguments: [party_name#13220, party_id#13221, company_id#13222, deleted_at#13223, county#13234, transaction_type#13235, fc_transaction_date#13236, fc_recorded_date#13237, fcdateupdated#13281, fctransactionid#13240, pdf_id#13241], [party_name#13220, party_id#13221, company_id#13222, deleted_at#13223, county#13234, transaction_type#13235, fc_transaction_date#13236, fc_recorded_date#13237, fcdateupdated#13281, fctransactionid#13240, pdf_id#13241], false

(1702) PhotonShuffleExchangeSink
Input [1]: [party_name#13220, party_id#13221, company_id#13222, deleted_at#13223, county#13234, transaction_type#13235, fc_transaction_date#13236, fc_recorded_date#13237, fcdateupdated#13281, fctransactionid#13240, pdf_id#13241]
Arguments: hashpartitioning(pdf_id#13241, 200)

(1703) PhotonShuffleMapStage
Input [1]: [party_name#13220, party_id#13221, company_id#13222, deleted_at#13223, county#13234, transaction_type#13235, fc_transaction_date#13236, fc_recorded_date#13237, fcdateupdated#13281, fctransactionid#13240, pdf_id#13241]
Arguments: ENSURE_REQUIREMENTS, [id=#152173]

(1704) PhotonShuffleExchangeSource
Input [1]: [party_name#13220, party_id#13221, company_id#13222, deleted_at#13223, county#13234, transaction_type#13235, fc_transaction_date#13236, fc_recorded_date#13237, fcdateupdated#13281, fctransactionid#13240, pdf_id#13241]

(1705) PhotonRowToColumnar
Input [1]: [pdf_id#13262]

(1706) PhotonShuffleExchangeSink
Input [1]: [pdf_id#13262]
Arguments: hashpartitioning(pdf_id#13262, 200)

(1707) PhotonShuffleMapStage
Input [1]: [pdf_id#13262]
Arguments: ENSURE_REQUIREMENTS, [id=#152178]

(1708) PhotonShuffleExchangeSource
Input [1]: [pdf_id#13262]

(1709) PhotonShuffledHashJoin
Left keys [1]: [pdf_id#13241]
Right keys [1]: [pdf_id#13262]
Join type: LeftOuter
Join condition: None

(1710) PhotonProject
Input [1]: [party_name#13220, party_id#13221, company_id#13222, deleted_at#13223, county#13234, transaction_type#13235, fc_transaction_date#13236, fc_recorded_date#13237, fcdateupdated#13281, fctransactionid#13240, pdf_id#13241, pdf_id#13262]
Arguments: [party_name#13220, party_id#13221, company_id#13222, deleted_at#13223, county#13234, transaction_type#13235, fc_transaction_date#13236, fc_recorded_date#13237, fcdateupdated#13281, fctransactionid#13240, ((isnotnull(pdf_id#13262) AND (transaction_type#13235 = MORTGAGE)) <=> true) AS has_pdf#13315]

(1711) PhotonGroupingAgg

Input [11]: [party_name#13220, party_id#13221, company_id#13222, deleted_at#13223, county#13234, transaction_type#13235, fc_transaction_date#13236, fc_recorded_date#13237, fcdateupdated#13281, fctransactionid#13240, has_pdf#13315]

Arguments: [party_name#13220, party_id#13221, company_id#13222, deleted_at#13223, county#13234, transaction_type#13235, fc_transaction_date#13236, fc_recorded_date#13237, fcdateupdated#13281, fctransactionid#13240, has_pdf#13315], [party_name#13220, party_id#13221, company_id#13222, deleted_at#13223, county#13234, transaction_type#13235, fc_transaction_date#13236, fc_recorded_date#13237, fcdateupdated#13281, fctransactionid#13240, has_pdf#13315], false

(1712) PhotonShuffleExchangeSink

Input [11]: [party_name#13220, party_id#13221, company_id#13222, deleted_at#13223, county#13234, transaction_type#13235, fc_transaction_date#13236, fc_recorded_date#13237, fcdateupdated#13281, fctransactionid#13240, has_pdf#13315]

Arguments: hashpartitioning(party_name#13220, party_id#13221, company_id#13222, deleted_at#13223, county#13234, transaction_type#13235, fc_transaction_date#13236, fc_recorded_date#13237, fcdateupdated#13281, fctransactionid#13240, has_pdf#13315, 200)

(1713) PhotonShuffleMapStage

Input [11]: [party_name#13220, party_id#13221, company_id#13222, deleted_at#13223, county#13234, transaction_type#13235, fc_transaction_date#13236, fc_recorded_date#13237, fcdateupdated#13281, fctransactionid#13240, has_pdf#13315]

Arguments: ENSURE_REQUIREMENTS, [id=#152189]

(1714) PhotonShuffleExchangeSource

Input [11]: [party_name#13220, party_id#13221, company_id#13222, deleted_at#13223, county#13234, transaction_type#13235, fc_transaction_date#13236, fc_recorded_date#13237, fcdateupdated#13281, fctransactionid#13240, has_pdf#13315]

(1715) PhotonGroupingAgg

Input [11]: [party_name#13220, party_id#13221, company_id#13222, deleted_at#13223, county#13234, transaction_type#13235, fc_transaction_date#13236, fc_recorded_date#13237, fcdateupdated#13281, fctransactionid#13240, has_pdf#13315]

Arguments: [party_name#13220, party_id#13221, company_id#13222, deleted_at#13223, county#13234, transaction_type#13235, fc_transaction_date#13236, fc_recorded_date#13237, fcdateupdated#13281, fctransactionid#13240, has_pdf#13315], [party_name#13220, party_id#13221, transaction_type#13235], true

(1716) PhotonGroupingAgg

Input [3]: [party_name#13220, party_id#13221, transaction_type#13235]

Arguments: [party_name#13220, party_id#13221, Transaction_Type#13235], [partial_count(1) AS count#14246L], [count#14245L], [party_name#13220, party_id#13221, Transaction_Type#13235, count#14246L], false

(1717) PhotonShuffleExchangeSink

Input [4]: [party_name#13220, party_id#13221, Transaction_Type#13235, count#14246L]

Arguments: hashpartitioning(party_name#13220, party_id#13221, Transaction_Type#13235, 200)

(1718) PhotonShuffleMapStage

Input [4]: [party_name#13220, party_id#13221, Transaction_Type#13235, count#14246L]

Arguments: ENSURE_REQUIREMENTS, [id=#152197]

(1719) PhotonShuffleExchangeSource

Input [4]: [party_name#13220, party_id#13221, Transaction_Type#13235, count#14246L]

(1720) PhotonGroupingAgg

Input [4]: [party_name#13220, party_id#13221, Transaction_Type#13235, count#14246L]

Arguments: [party_name#13220, party_id#13221, Transaction_Type#13235], [finalmerge_count(merge count#14246L) AS count(1)#14057L], [count(1)#14057L], [party_name#13220, party_id#13221, CASE WHEN (Transaction_Type#13235 = DEED) THEN count(1)#14057L END AS Transactions as Buyer#13334L, CASE WHEN (Transaction_Type#13235 = MORTGAGE) THEN count(1)#14057L END AS Transactions as Lender#13335L], true

(1721) PhotonGroupingAgg

Input [4]: [party_name#13220, party_id#13221, Transactions as Buyer#13334L, Transactions as Lender#13335L]

Arguments: [party_name#13220, party_id#13221], [partial_sum(Transactions as Buyer#13334L) AS sum#14242L, partial_sum(Transactions as Lender#13335L) AS sum#14244L], [sum#14241L, sum#14243L], [party_name#13220, party_id#13221, sum#14242L, sum#14244L], false

(1722) PhotonShuffleExchangeSink

Input [4]: [party_name#13220, party_id#13221, sum#14242L, sum#14244L]

Arguments: hashpartitioning(party_name#13220, party_id#13221, 200)

(1723) PhotonShuffleMapStage

Input [4]: [party_name#13220, party_id#13221, sum#14242L, sum#14244L]

Arguments: ENSURE_REQUIREMENTS, [id=#152205]

(1724) PhotonShuffleExchangeSource

Input [4]: [party_name#13220, party_id#13221, sum#14242L, sum#14244L]

(1725) PhotonGroupingAgg

Input [4]: [party_name#13220, party_id#13221, sum#14242L, sum#14244L]

Arguments: [party_name#13220, party_id#13221], [finalmerge_sum(merge sum#14242L) AS sum(Transactions as Buyer#13334L)#14064L, finalmerge_sum(merge sum#14244L) AS sum(Transactions as Lender#13335L)#14065L], [sum(Transactions as Buyer#13334L)#14064L, sum(Transactions as Lender#13335L)#14065L], [party_id#13221, sum(Transactions as Buyer#13334L)#14064L AS Transactions as Buyer#13336L, sum(Transactions as Lender#13335L)#14065L AS Transactions as Lender#13337L], true

(1726) PhotonShuffleExchangeSink

Input [3]: [party_id#13221, Transactions as Buyer#13336L, Transactions as Lender#13337L]

Arguments: hashpartitioning(party_id#13221, 200)

(1727) PhotonShuffleMapStage

Input [3]: [party_id#13221, Transactions as Buyer#13336L, Transactions as Lender#13337L]

Arguments: ENSURE_REQUIREMENTS, [id=#152211]

(1728) PhotonShuffleExchangeSource

Input [3]: [party_id#13221, Transactions as Buyer#13336L, Transactions as Lender#13337L]

(1729) PhotonShuffledHashJoin

Left keys [1]: [party_id#12418]

Right keys [1]: [party_id#13221]

Join type: LeftOuter

Join condition: None

(1730) PhotonProject

Input [21]: [party_name#12417, party_id#12418, company_id#12419, deleted_at#12648, has_pdf#12649, Mortgage Transactions#12650L, Deed Transactions#12651L, Satisfaction of Mortgage Transactions#12652L, Assignment of Mortgage Transactions#12653L, lis_pendens_transactions#12654L, judgment_transactions#12655L, loan_modification_transactions#12656L, Most Recent Transaction#12879, fcdateupdated#12880, Last Purchase Date#12994, Last Sale Date#13104, Transactions as Seller#13217L, Transactions as Borrower#13218L, party_id#13221, Transactions as Buyer#13336L, Transactions as Lender#13337L]

Arguments: [party_name#12417, party_id#12418, company_id#12419, deleted_at#12648, has_pdf#12649, Mortgage Transactions#12650L, Deed Transactions#12651L, Satisfaction of Mortgage Transactions#12652L, Assignment of Mortgage Transactions#12653L, lis_pendens_transactions#12654L, judgment_transactions#12655L, loan_modification_transactions#12656L, Most Recent Transaction#12879, fcdateupdated#12880, Last Purchase Date#12994, Last Sale Date#13104, Transactions as Seller#13217L, Transactions as Borrower#13218L, Transactions as Buyer#13336L, Transactions as Lender#13337L]

(1731) PhotonLocalLimit

Input [20]: [party_name#12417, party_id#12418, company_id#12419, deleted_at#12648, has_pdf#12649, Mortgage Transactions#12650L, Deed Transactions#12651L, Satisfaction of Mortgage Transactions#12652L, Assignment of Mortgage Transactions#12653L, lis_pendens_transactions#12654L, judgment_transactions#12655L, loan_modification_transactions#12656L, Most Recent Transaction#12879, fcdateupdated#12880, Last Purchase Date#12994, Last Sale Date#13104, Transactions as Seller#13217L, Transactions as Borrower#13218L, Transactions as Buyer#13336L, Transactions as Lender#13337L]

Arguments: 21

(1732) PhotonRowToColumnar

Input [5]: [party_name#13338, party_id#13339, company_id#13340, deleted_at#13341, updated_at#13342]

(1733) PhotonShuffleExchangeSink

Input [5]: [party_name#13338, party_id#13339, company_id#13340, deleted_at#13341, updated_at#13342]

Arguments: hashpartitioning(party_id#13339, 200)

(1734) PhotonShuffleMapStage

Input [5]: [party_name#13338, party_id#13339, company_id#13340, deleted_at#13341, updated_at#13342]

Arguments: ENSURE_REQUIREMENTS, [id=#152225]

(1735) PhotonShuffleExchangeSource

Input [5]: [party_name#13338, party_id#13339, company_id#13340, deleted_at#13341, updated_at#13342]

(1736) PhotonRowToColumnar

Input [2]: [party_id#13348, transaction_id#13349]

(1737) PhotonShuffleExchangeSink

Input [2]: [party_id#13348, transaction_id#13349]

Arguments: hashpartitioning(party_id#13348, 200)

(1738) PhotonShuffleMapStage

Input [2]: [party_id#13348, transaction_id#13349]

Arguments: ENSURE_REQUIREMENTS, [id=#152230]

(1739) PhotonShuffleExchangeSource

Input [2]: [party_id#13348, transaction_id#13349]

(1740) PhotonShuffledHashJoin

Left keys [1]: [party_id#13339]

Right keys [1]: [party_id#13348]

Join type: Inner

Join condition: None

(1741) PhotonProject

Input [7]: [party_name#13338, party_id#13339, company_id#13340, deleted_at#13341, updated_at#13342, party_id#13348, transaction_id#13349]

Arguments: [party_id#13339, party_name#13338, company_id#13340, deleted_at#13341, updated_at#13342, transaction_id#13349]

(1742) PhotonGroupingAgg

Input [6]: [party_id#13339, party_name#13338, company_id#13340, deleted_at#13341, updated_at#13342, transaction_id#13349]

Arguments: [party_name#13338, party_id#13339, company_id#13340, deleted_at#13341, transaction_id#13349, updated_at#13342], [party_name#13338, party_id#13339, company_id#13340, deleted_at#13341, transaction_id#13349, updated_at#13342], false

(1743) PhotonShuffleExchangeSink

Input [6]: [party_name#13338, party_id#13339, company_id#13340, deleted_at#13341, transaction_id#13349, updated_at#13342]

Arguments: hashpartitioning(transaction_id#13349, 200)

(1744) PhotonShuffleMapStage

Input [6]: [party_name#13338, party_id#13339, company_id#13340, deleted_at#13341, transaction_id#13349, updated_at#13342]

Arguments: ENSURE_REQUIREMENTS, [id=#152240]

(1745) PhotonShuffleExchangeSource

Input [6]: [party_name#13338, party_id#13339, company_id#13340, deleted_at#13341, transaction_id#13349, updated_at#13342]

(1746) PhotonRowToColumnar
Input [7]: [county#13352, transaction_type#13353, fc_transaction_date#13354, fc_recorded_date#13355, fcdateupdated#13357, fctransactionid#13358, pdf_id#13359]

(1747) PhotonShuffleExchangeSink
Input [7]: [county#13352, transaction_type#13353, fc_transaction_date#13354, fc_recorded_date#13355, fcdateupdated#13357, fctransactionid#13358, pdf_id#13359]
Arguments: hashpartitioning(fctransactionid#13358, 200)

(1748) PhotonShuffleMapStage
Input [7]: [county#13352, transaction_type#13353, fc_transaction_date#13354, fc_recorded_date#13355, fcdateupdated#13357, fctransactionid#13358, pdf_id#13359]
Arguments: ENSURE_REQUIREMENTS, [id=#152245]

(1749) PhotonShuffleExchangeSource
Input [7]: [county#13352, transaction_type#13353, fc_transaction_date#13354, fc_recorded_date#13355, fcdateupdated#13357, fctransactionid#13358, pdf_id#13359]

(1750) PhotonShuffledHashJoin
Left keys [1]: [transaction_id#13349]
Right keys [1]: [fctransactionid#13358]
Join type: Inner
Join condition: None

(1751) PhotonProject
Input [13]: [party_name#13338, party_id#13339, company_id#13340, deleted_at#13341, transaction_id#13349, updated_at#13342, county#13352, transaction_type#13353, fc_transaction_date#13354, fc_recorded_date#13355, fcdateupdated#13357, fctransactionid#13358, pdf_id#13359]
Arguments: [party_name#13338, party_id#13339, company_id#13340, deleted_at#13341, county#13352, transaction_type#13353, fc_transaction_date#13354, fc_recorded_date#13355, greatest(fcdateupdated#13357, updated_at#13342) AS fcdateupdated#13398, fctransactionid#13358, pdf_id#13359]

(1752) PhotonGroupingAgg
Input [11]: [party_name#13338, party_id#13339, company_id#13340, deleted_at#13341, county#13352, transaction_type#13353, fc_transaction_date#13354, fc_recorded_date#13355, fcdateupdated#13398, fctransactionid#13358, pdf_id#13359]
Arguments: [party_name#13338, party_id#13339, company_id#13340, deleted_at#13341, county#13352, transaction_type#13353, fc_transaction_date#13354, fc_recorded_date#13355, fcdateupdated#13398, fctransactionid#13358, pdf_id#13359], [party_name#13338, party_id#13339, company_id#13340, deleted_at#13341, county#13352, transaction_type#13353, fc_transaction_date#13354, fc_recorded_date#13355, fcdateupdated#13398, fctransactionid#13358, pdf_id#13359], false

(1753) PhotonShuffleExchangeSink
Input [11]: [party_name#13338, party_id#13339, company_id#13340, deleted_at#13341, county#13352, transaction_type#13353, fc_transaction_date#13354, fc_recorded_date#13355, fcdateupdated#13398, fctransactionid#13358, pdf_id#13359]
Arguments: hashpartitioning(party_id#13339, 200)

(1754) PhotonShuffleMapStage
Input [11]: [party_name#13338, party_id#13339, company_id#13340, deleted_at#13341, county#13352, transaction_type#13353, fc_transaction_date#13354, fc_recorded_date#13355, fcdateupdated#13398, fctransactionid#13358, pdf_id#13359]
Arguments: ENSURE_REQUIREMENTS, [id=#152256]

(1755) PhotonShuffleExchangeSource
Input [11]: [party_name#13338, party_id#13339, company_id#13340, deleted_at#13341, county#13352, transaction_type#13353, fc_transaction_date#13354, fc_recorded_date#13355, fcdateupdated#13398, fctransactionid#13358, pdf_id#13359]

(1756) PhotonRowToColumnar
Input [2]: [party_id#13368, transaction_id#13369]

(1757) PhotonShuffleExchangeSink
Input [2]: [party_id#13368, transaction_id#13369]
Arguments: hashpartitioning(transaction_id#13369, 200)

(1758) PhotonShuffleMapStage
Input [2]: [party_id#13368, transaction_id#13369]
Arguments: ENSURE_REQUIREMENTS, [id=#152261]

(1759) PhotonShuffleExchangeSource
Input [2]: [party_id#13368, transaction_id#13369]

(1760) PhotonRowToColumnar
Input [1]: [fc_transaction_id#13372]

(1761) PhotonShuffleExchangeSink
Input [1]: [fc_transaction_id#13372]
Arguments: hashpartitioning(fc_transaction_id#13372, 200)

(1762) PhotonShuffleMapStage
Input [1]: [fc_transaction_id#13372]
Arguments: ENSURE_REQUIREMENTS, [id=#152266]

(1763) PhotonShuffleExchangeSource
Input [1]: [fc_transaction_id#13372]

(1764) PhotonShuffledHashJoin

Left keys [1]: [transaction_id#13369]
Right keys [1]: [fc_transaction_id#13372]
Join type: LeftSemi
Join condition: None

(1765) PhotonProject
Input [2]: [party_id#13368, transaction_id#13369]
Arguments: [party_id#13368]

(1766) PhotonGroupingAgg
Input [1]: [party_id#13368]
Arguments: [party_id#13368], [party_id#13368], false

(1767) PhotonShuffleExchangeSink
Input [1]: [party_id#13368]
Arguments: hashpartitioning(party_id#13368, 200)

(1768) PhotonShuffleMapStage
Input [1]: [party_id#13368]
Arguments: ENSURE_REQUIREMENTS, [id=#152276]

(1769) PhotonShuffleExchangeSource
Input [1]: [party_id#13368]

(1770) PhotonGroupingAgg
Input [1]: [party_id#13368]
Arguments: [party_id#13368], [party_id#13368], true

(1771) PhotonGroupingAgg
Input [1]: [party_id#13368]
Arguments: [party_id#13368], [party_id#13368], false

(1772) PhotonShuffleExchangeSink
Input [1]: [party_id#13368]
Arguments: hashpartitioning(party_id#13368, 200)

(1773) PhotonRowToColumnar
Input [2]: [party_id#13374, transaction_id#13375]

(1774) PhotonShuffleExchangeSink
Input [2]: [party_id#13374, transaction_id#13375]
Arguments: hashpartitioning(transaction_id#13375, 200)

(1775) PhotonShuffleMapStage
Input [2]: [party_id#13374, transaction_id#13375]
Arguments: ENSURE_REQUIREMENTS, [id=#152285]

(1776) PhotonShuffleExchangeSource
Input [2]: [party_id#13374, transaction_id#13375]

(1777) PhotonRowToColumnar
Input [1]: [fc_transaction_id#13378]

(1778) PhotonShuffleExchangeSink
Input [1]: [fc_transaction_id#13378]
Arguments: hashpartitioning(fc_transaction_id#13378, 200)

(1779) PhotonShuffleMapStage
Input [1]: [fc_transaction_id#13378]
Arguments: ENSURE_REQUIREMENTS, [id=#152290]

(1780) PhotonShuffleExchangeSource
Input [1]: [fc_transaction_id#13378]

(1781) PhotonShuffledHashJoin
Left keys [1]: [transaction_id#13375]
Right keys [1]: [fc_transaction_id#13378]
Join type: LeftSemi
Join condition: None

(1782) PhotonProject
Input [2]: [party_id#13374, transaction_id#13375]
Arguments: [party_id#13374]

(1783) PhotonGroupingAgg
Input [1]: [party_id#13374]
Arguments: [party_id#13374], [party_id#13374], false

(1784) PhotonShuffleExchangeSink
Input [1]: [party_id#13374]
Arguments: hashpartitioning(party_id#13374, 200)

(1785) PhotonShuffleMapStage

Input [1]: [party_id#13374]
Arguments: ENSURE_REQUIREMENTS, [id=#152300]

(1786) PhotonShuffleExchangeSource
Input [1]: [party_id#13374]

(1787) PhotonGroupingAgg
Input [1]: [party_id#13374]
Arguments: [party_id#13374], [party_id#13374], true

(1788) PhotonGroupingAgg
Input [1]: [party_id#13374]
Arguments: [party_id#13374], [party_id#13374], false

(1789) PhotonShuffleExchangeSink
Input [1]: [party_id#13374]
Arguments: hashpartitioning(party_id#13374, 200)

(1790) PhotonUnionShuffleExchangeSink

(1791) PhotonUnionShuffleMapStage
Input [1]: [party_id#13368]
Arguments: ENSURE_REQUIREMENTS, [id=#152313]

(1792) PhotonShuffleExchangeSource
Input [1]: [party_id#13368]

(1793) PhotonShuffledHashJoin
Left keys [1]: [party_id#13339]
Right keys [1]: [party_id#13368]
Join type: LeftSemi
Join condition: None

(1794) PhotonGroupingAgg
Input [11]: [party_name#13338, party_id#13339, company_id#13340, deleted_at#13341, county#13352, transaction_type#13353, fc_transaction_date#13354, fc_recorded_date#13355, fcdateupdated#13398, fctransactionid#13358, pdf_id#13359]
Arguments: [party_name#13338, party_id#13339, company_id#13340, deleted_at#13341, county#13352, transaction_type#13353, fc_transaction_date#13354, fc_recorded_date#13355, fcdateupdated#13398, fctransactionid#13358, pdf_id#13359], [party_name#13338, party_id#13339, company_id#13340, deleted_at#13341, county#13352, transaction_type#13353, fc_transaction_date#13354, fc_recorded_date#13355, fcdateupdated#13398, fctransactionid#13358, pdf_id#13359], false

(1795) PhotonShuffleExchangeSink
Input [11]: [party_name#13338, party_id#13339, company_id#13340, deleted_at#13341, county#13352, transaction_type#13353, fc_transaction_date#13354, fc_recorded_date#13355, fcdateupdated#13398, fctransactionid#13358, pdf_id#13359]
Arguments: hashpartitioning(pdf_id#13359, 200)

(1796) PhotonShuffleMapStage
Input [11]: [party_name#13338, party_id#13339, company_id#13340, deleted_at#13341, county#13352, transaction_type#13353, fc_transaction_date#13354, fc_recorded_date#13355, fcdateupdated#13398, fctransactionid#13358, pdf_id#13359]
Arguments: ENSURE_REQUIREMENTS, [id=#152326]

(1797) PhotonShuffleExchangeSource
Input [11]: [party_name#13338, party_id#13339, company_id#13340, deleted_at#13341, county#13352, transaction_type#13353, fc_transaction_date#13354, fc_recorded_date#13355, fcdateupdated#13398, fctransactionid#13358, pdf_id#13359]

(1798) PhotonRowToColumnar
Input [1]: [pdf_id#13380]

(1799) PhotonShuffleExchangeSink
Input [1]: [pdf_id#13380]
Arguments: hashpartitioning(pdf_id#13380, 200)

(1800) PhotonShuffleMapStage
Input [1]: [pdf_id#13380]
Arguments: ENSURE_REQUIREMENTS, [id=#152331]

(1801) PhotonShuffleExchangeSource
Input [1]: [pdf_id#13380]

(1802) PhotonShuffledHashJoin
Left keys [1]: [pdf_id#13359]
Right keys [1]: [pdf_id#13380]
Join type: LeftOuter
Join condition: None

(1803) PhotonProject
Input [12]: [party_name#13338, party_id#13339, company_id#13340, deleted_at#13341, county#13352, transaction_type#13353, fc_transaction_date#13354, fc_recorded_date#13355, fcdateupdated#13398, fctransactionid#13358, pdf_id#13359, pdf_id#13380]
Arguments: [party_name#13338, party_id#13339, company_id#13340, deleted_at#13341, county#13352, transaction_type#13353, fc_transaction_date#13354, fc_recorded_date#13355, fcdateupdated#13398, fctransactionid#13358, ((isnotnull(pdf_id#13380) AND (transaction_type#13353 = MORTGAGE)) <=> true) AS has_pdf#13430]

(1804) PhotonGroupingAgg

Input [11]: [party_name#13338, party_id#13339, company_id#13340, deleted_at#13341, county#13352, transaction_type#13353, fc_transaction_date#13354, fc_recorded_date#13355, fcdateupdated#13398, fctransactionid#13358, has_pdf#13430]
Arguments: [party_name#13338, party_id#13339, company_id#13340, deleted_at#13341, county#13352, transaction_type#13353, fc_transaction_date#13354, fc_recorded_date#13355, fcdateupdated#13398, fctransactionid#13358, has_pdf#13430], [party_name#13338, party_id#13339, company_id#13340, deleted_at#13341, county#13352, transaction_type#13353, fc_transaction_date#13354, fc_recorded_date#13355, fcdateupdated#13398, fctransactionid#13358, has_pdf#13430], false

(1805) PhotonShuffleExchangeSink
Input [11]: [party_name#13338, party_id#13339, company_id#13340, deleted_at#13341, county#13352, transaction_type#13353, fc_transaction_date#13354, fc_recorded_date#13355, fcdateupdated#13398, fctransactionid#13358, has_pdf#13430]
Arguments: hashpartitioning(party_name#13338, party_id#13339, company_id#13340, deleted_at#13341, county#13352, transaction_type#13353, fc_transaction_date#13354, fc_recorded_date#13355, fcdateupdated#13398, fctransactionid#13358, has_pdf#13430, 200)

(1806) PhotonShuffleMapStage
Input [11]: [party_name#13338, party_id#13339, company_id#13340, deleted_at#13341, county#13352, transaction_type#13353, fc_transaction_date#13354, fc_recorded_date#13355, fcdateupdated#13398, fctransactionid#13358, has_pdf#13430]
Arguments: ENSURE_REQUIREMENTS, [id=#152342]

(1807) PhotonShuffleExchangeSource
Input [11]: [party_name#13338, party_id#13339, company_id#13340, deleted_at#13341, county#13352, transaction_type#13353, fc_transaction_date#13354, fc_recorded_date#13355, fcdateupdated#13398, fctransactionid#13358, has_pdf#13430]

(1808) PhotonGroupingAgg
Input [11]: [party_name#13338, party_id#13339, company_id#13340, deleted_at#13341, county#13352, transaction_type#13353, fc_transaction_date#13354, fc_recorded_date#13355, fcdateupdated#13398, fctransactionid#13358, has_pdf#13430]
Arguments: [party_name#13338, party_id#13339, company_id#13340, deleted_at#13341, county#13352, transaction_type#13353, fc_transaction_date#13354, fc_recorded_date#13355, fcdateupdated#13398, fctransactionid#13358, has_pdf#13430], [party_name#13338, party_id#13339, company_id#13340, deleted_at#13341, county#13352, transaction_type#13353, fc_transaction_date#13354, fc_recorded_date#13355, fcdateupdated#13398, fctransactionid#13358, has_pdf#13430], true

(1809) PhotonGroupingAgg
Input [11]: [party_name#13338, party_id#13339, company_id#13340, deleted_at#13341, county#13352, transaction_type#13353, fc_transaction_date#13354, fc_recorded_date#13355, fcdateupdated#13398, fctransactionid#13358, has_pdf#13430]
Arguments: [party_name#13338, party_id#13339, company_id#13340, deleted_at#13341, county#13352, transaction_type#13353, fc_transaction_date#13354, fc_recorded_date#13355, fcdateupdated#13398, fctransactionid#13358, has_pdf#13430], [party_name#13338, party_id#13339, company_id#13340, deleted_at#13341, county#13352, transaction_type#13353, fc_transaction_date#13354, fc_recorded_date#13355, fcdateupdated#13398, fctransactionid#13358, has_pdf#13430], false

(1810) PhotonShuffleExchangeSink
Input [11]: [party_name#13338, party_id#13339, company_id#13340, deleted_at#13341, county#13352, transaction_type#13353, fc_transaction_date#13354, fc_recorded_date#13355, fcdateupdated#13398, fctransactionid#13358, has_pdf#13430]
Arguments: hashpartitioning(party_name#13338, party_id#13339, company_id#13340, deleted_at#13341, county#13352, transaction_type#13353, fc_transaction_date#13354, fc_recorded_date#13355, fcdateupdated#13398, fctransactionid#13358, has_pdf#13430, 200)

(1811) PhotonRowToColumnar
Input [5]: [party_name#13447, party_id#13448, company_id#13449, deleted_at#13450, updated_at#13451]

(1812) PhotonShuffleExchangeSink
Input [5]: [party_name#13447, party_id#13448, company_id#13449, deleted_at#13450, updated_at#13451]
Arguments: hashpartitioning(party_id#13448, 200)

(1813) PhotonShuffleMapStage
Input [5]: [party_name#13447, party_id#13448, company_id#13449, deleted_at#13450, updated_at#13451]
Arguments: ENSURE_REQUIREMENTS, [id=#152351]

(1814) PhotonShuffleExchangeSource
Input [5]: [party_name#13447, party_id#13448, company_id#13449, deleted_at#13450, updated_at#13451]

(1815) PhotonRowToColumnar
Input [2]: [party_id#13457, transaction_id#13458]

(1816) PhotonShuffleExchangeSink
Input [2]: [party_id#13457, transaction_id#13458]
Arguments: hashpartitioning(party_id#13457, 200)

(1817) PhotonShuffleMapStage
Input [2]: [party_id#13457, transaction_id#13458]
Arguments: ENSURE_REQUIREMENTS, [id=#152356]

(1818) PhotonShuffleExchangeSource
Input [2]: [party_id#13457, transaction_id#13458]

(1819) PhotonShuffledHashJoin
Left keys [1]: [party_id#13448]
Right keys [1]: [party_id#13457]
Join type: Inner
Join condition: None

(1820) PhotonProject
Input [7]: [party_name#13447, party_id#13448, company_id#13449, deleted_at#13450, updated_at#13451, party_id#13457, transaction_id#13458]
Arguments: [party_id#13448, party_name#13447, company_id#13449, deleted_at#13450, updated_at#13451, transaction_id#13458]

(1821) PhotonGroupingAgg

Input [6]: [party_id#13448, party_name#13447, company_id#13449, deleted_at#13450, updated_at#13451, transaction_id#13458]
Arguments: [party_name#13447, party_id#13448, company_id#13449, deleted_at#13450, transaction_id#13458, updated_at#13451],
[party_name#13447, party_id#13448, company_id#13449, deleted_at#13450, transaction_id#13458, updated_at#13451], false

(1822) PhotonShuffleExchangeSink

Input [6]: [party_name#13447, party_id#13448, company_id#13449, deleted_at#13450, transaction_id#13458, updated_at#13451]
Arguments: hashpartitioning(transaction_id#13458, 200)

(1823) PhotonShuffleMapStage

Input [6]: [party_name#13447, party_id#13448, company_id#13449, deleted_at#13450, transaction_id#13458, updated_at#13451]
Arguments: ENSURE_REQUIREMENTS, [id=#152366]

(1824) PhotonShuffleExchangeSource

Input [6]: [party_name#13447, party_id#13448, company_id#13449, deleted_at#13450, transaction_id#13458, updated_at#13451]

(1825) PhotonRowToColumnar

Input [7]: [county#13461, transaction_type#13462, fc_transaction_date#13463, fc_recorded_date#13464, fcdateupdated#13466,
fctransactionid#13467, pdf_id#13468]

(1826) PhotonShuffleExchangeSink

Input [7]: [county#13461, transaction_type#13462, fc_transaction_date#13463, fc_recorded_date#13464, fcdateupdated#13466,
fctransactionid#13467, pdf_id#13468]
Arguments: hashpartitioning(fctransactionid#13467, 200)

(1827) PhotonShuffleMapStage

Input [7]: [county#13461, transaction_type#13462, fc_transaction_date#13463, fc_recorded_date#13464, fcdateupdated#13466,
fctransactionid#13467, pdf_id#13468]
Arguments: ENSURE_REQUIREMENTS, [id=#152371]

(1828) PhotonShuffleExchangeSource

Input [7]: [county#13461, transaction_type#13462, fc_transaction_date#13463, fc_recorded_date#13464, fcdateupdated#13466,
fctransactionid#13467, pdf_id#13468]

(1829) PhotonShuffledHashJoin

Left keys [1]: [transaction_id#13458]
Right keys [1]: [fctransactionid#13467]
Join type: Inner
Join condition: None

(1830) PhotonProject

Input [13]: [party_name#13447, party_id#13448, company_id#13449, deleted_at#13450, transaction_id#13458, updated_at#13451, county#13461,
transaction_type#13462, fc_transaction_date#13463, fc_recorded_date#13464, fcdateupdated#13466, fctransactionid#13467, pdf_id#13468]
Arguments: [party_name#13447, party_id#13448, company_id#13449, deleted_at#13450, county#13461, transaction_type#13462,
fc_transaction_date#13463, fc_recorded_date#13464, greatest(fcdateupdated#13466, updated_at#13451) AS fcdateupdated#13508,
fctransactionid#13467, pdf_id#13468]

(1831) PhotonGroupingAgg

Input [11]: [party_name#13447, party_id#13448, company_id#13449, deleted_at#13450, county#13461, transaction_type#13462,
fc_transaction_date#13463, fc_recorded_date#13464, fcdateupdated#13508, fctransactionid#13467, pdf_id#13468]
Arguments: [party_name#13447, party_id#13448, company_id#13449, deleted_at#13450, county#13461, transaction_type#13462,
fc_transaction_date#13463, fc_recorded_date#13464, fcdateupdated#13508, fctransactionid#13467, pdf_id#13468], [party_name#13447,
party_id#13448, company_id#13449, deleted_at#13450, county#13461, transaction_type#13462, fc_transaction_date#13463,
fc_recorded_date#13464, fcdateupdated#13508, fctransactionid#13467, pdf_id#13468], false

(1832) PhotonShuffleExchangeSink

Input [11]: [party_name#13447, party_id#13448, company_id#13449, deleted_at#13450, county#13461, transaction_type#13462,
fc_transaction_date#13463, fc_recorded_date#13464, fcdateupdated#13508, fctransactionid#13467, pdf_id#13468]
Arguments: hashpartitioning(party_id#13448, 200)

(1833) PhotonShuffleMapStage

Input [11]: [party_name#13447, party_id#13448, company_id#13449, deleted_at#13450, county#13461, transaction_type#13462,
fc_transaction_date#13463, fc_recorded_date#13464, fcdateupdated#13508, fctransactionid#13467, pdf_id#13468]
Arguments: ENSURE_REQUIREMENTS, [id=#152382]

(1834) PhotonShuffleExchangeSource

Input [11]: [party_name#13447, party_id#13448, company_id#13449, deleted_at#13450, county#13461, transaction_type#13462,
fc_transaction_date#13463, fc_recorded_date#13464, fcdateupdated#13508, fctransactionid#13467, pdf_id#13468]

(1835) PhotonRowToColumnar

Input [2]: [party_id#13477, transaction_id#13478]

(1836) PhotonShuffleExchangeSink

Input [2]: [party_id#13477, transaction_id#13478]
Arguments: hashpartitioning(transaction_id#13478, 200)

(1837) PhotonShuffleMapStage

Input [2]: [party_id#13477, transaction_id#13478]
Arguments: ENSURE_REQUIREMENTS, [id=#152387]

(1838) PhotonShuffleExchangeSource

Input [2]: [party_id#13477, transaction_id#13478]

(1839) PhotonRowToColumnar

Input [1]: [fc_transaction_id#13481]

(1840) PhotonShuffleExchangeSink
Input [1]: [fc_transaction_id#13481]
Arguments: hashpartitioning(fc_transaction_id#13481, 200)

(1841) PhotonShuffleMapStage
Input [1]: [fc_transaction_id#13481]
Arguments: ENSURE_REQUIREMENTS, [id=#152392]

(1842) PhotonShuffleExchangeSource
Input [1]: [fc_transaction_id#13481]

(1843) PhotonShuffledHashJoin
Left keys [1]: [transaction_id#13478]
Right keys [1]: [fc_transaction_id#13481]
Join type: LeftSemi
Join condition: None

(1844) PhotonProject
Input [2]: [party_id#13477, transaction_id#13478]
Arguments: [party_id#13477]

(1845) PhotonGroupingAgg
Input [1]: [party_id#13477]
Arguments: [party_id#13477], [party_id#13477], false

(1846) PhotonShuffleExchangeSink
Input [1]: [party_id#13477]
Arguments: hashpartitioning(party_id#13477, 200)

(1847) PhotonShuffleMapStage
Input [1]: [party_id#13477]
Arguments: ENSURE_REQUIREMENTS, [id=#152402]

(1848) PhotonShuffleExchangeSource
Input [1]: [party_id#13477]

(1849) PhotonGroupingAgg
Input [1]: [party_id#13477]
Arguments: [party_id#13477], [party_id#13477], true

(1850) PhotonGroupingAgg
Input [1]: [party_id#13477]
Arguments: [party_id#13477], [party_id#13477], false

(1851) PhotonShuffleExchangeSink
Input [1]: [party_id#13477]
Arguments: hashpartitioning(party_id#13477, 200)

(1852) PhotonRowToColumnar
Input [2]: [party_id#13483, transaction_id#13484]

(1853) PhotonShuffleExchangeSink
Input [2]: [party_id#13483, transaction_id#13484]
Arguments: hashpartitioning(transaction_id#13484, 200)

(1854) PhotonShuffleMapStage
Input [2]: [party_id#13483, transaction_id#13484]
Arguments: ENSURE_REQUIREMENTS, [id=#152411]

(1855) PhotonShuffleExchangeSource
Input [2]: [party_id#13483, transaction_id#13484]

(1856) PhotonRowToColumnar
Input [1]: [fc_transaction_id#13487]

(1857) PhotonShuffleExchangeSink
Input [1]: [fc_transaction_id#13487]
Arguments: hashpartitioning(fc_transaction_id#13487, 200)

(1858) PhotonShuffleMapStage
Input [1]: [fc_transaction_id#13487]
Arguments: ENSURE_REQUIREMENTS, [id=#152416]

(1859) PhotonShuffleExchangeSource
Input [1]: [fc_transaction_id#13487]

(1860) PhotonShuffledHashJoin
Left keys [1]: [transaction_id#13484]
Right keys [1]: [fc_transaction_id#13487]
Join type: LeftSemi
Join condition: None

(1861) PhotonProject
Input [2]: [party_id#13483, transaction_id#13484]
Arguments: [party_id#13483]

(1862) PhotonGroupingAgg
Input [1]: [party_id#13483]
Arguments: [party_id#13483], [party_id#13483], false

(1863) PhotonShuffleExchangeSink
Input [1]: [party_id#13483]
Arguments: hashpartitioning(party_id#13483, 200)

(1864) PhotonShuffleMapStage
Input [1]: [party_id#13483]
Arguments: ENSURE_REQUIREMENTS, [id=#152426]

(1865) PhotonShuffleExchangeSource
Input [1]: [party_id#13483]

(1866) PhotonGroupingAgg
Input [1]: [party_id#13483]
Arguments: [party_id#13483], [party_id#13483], true

(1867) PhotonGroupingAgg
Input [1]: [party_id#13483]
Arguments: [party_id#13483], [party_id#13483], false

(1868) PhotonShuffleExchangeSink
Input [1]: [party_id#13483]
Arguments: hashpartitioning(party_id#13483, 200)

(1869) PhotonUnionShuffleExchangeSink

(1870) PhotonUnionShuffleMapStage
Input [1]: [party_id#13477]
Arguments: ENSURE_REQUIREMENTS, [id=#152439]

(1871) PhotonShuffleExchangeSource
Input [1]: [party_id#13477]

(1872) PhotonShuffledHashJoin
Left keys [1]: [party_id#13448]
Right keys [1]: [party_id#13477]
Join type: LeftSemi
Join condition: None

(1873) PhotonGroupingAgg
Input [11]: [party_name#13447, party_id#13448, company_id#13449, deleted_at#13450, county#13461, transaction_type#13462, fc_transaction_date#13463, fc_recorded_date#13464, fcdateupdated#13508, fctransactionid#13467, pdf_id#13468]
Arguments: [party_name#13447, party_id#13448, company_id#13449, deleted_at#13450, county#13461, transaction_type#13462, fc_transaction_date#13463, fc_recorded_date#13464, fcdateupdated#13508, fctransactionid#13467, pdf_id#13468], [party_name#13447, party_id#13448, company_id#13449, deleted_at#13450, county#13461, transaction_type#13462, fc_transaction_date#13463, fc_recorded_date#13464, fcdateupdated#13508, fctransactionid#13467, pdf_id#13468], false

(1874) PhotonShuffleExchangeSink
Input [11]: [party_name#13447, party_id#13448, company_id#13449, deleted_at#13450, county#13461, transaction_type#13462, fc_transaction_date#13463, fc_recorded_date#13464, fcdateupdated#13508, fctransactionid#13467, pdf_id#13468]
Arguments: hashpartitioning(pdf_id#13468, 200)

(1875) PhotonShuffleMapStage
Input [11]: [party_name#13447, party_id#13448, company_id#13449, deleted_at#13450, county#13461, transaction_type#13462, fc_transaction_date#13463, fc_recorded_date#13464, fcdateupdated#13508, fctransactionid#13467, pdf_id#13468]
Arguments: ENSURE_REQUIREMENTS, [id=#152452]

(1876) PhotonShuffleExchangeSource
Input [11]: [party_name#13447, party_id#13448, company_id#13449, deleted_at#13450, county#13461, transaction_type#13462, fc_transaction_date#13463, fc_recorded_date#13464, fcdateupdated#13508, fctransactionid#13467, pdf_id#13468]

(1877) PhotonRowToColumnar
Input [1]: [pdf_id#13489]

(1878) PhotonShuffleExchangeSink
Input [1]: [pdf_id#13489]
Arguments: hashpartitioning(pdf_id#13489, 200)

(1879) PhotonShuffleMapStage
Input [1]: [pdf_id#13489]
Arguments: ENSURE_REQUIREMENTS, [id=#152457]

(1880) PhotonShuffleExchangeSource
Input [1]: [pdf_id#13489]

(1881) PhotonShuffledHashJoin
Left keys [1]: [pdf_id#13468]
Right keys [1]: [pdf_id#13489]
Join type: LeftOuter
Join condition: None

(1882) PhotonProject
Input [12]: [party_name#13447, party_id#13448, company_id#13449, deleted_at#13450, county#13461, transaction_type#13462, fc_transaction_date#13463, fc_recorded_date#13464, fcdateupdated#13508, fctransactionid#13467, pdf_id#13468, pdf_id#13489]
Arguments: [party_name#13447, party_id#13448, company_id#13449, deleted_at#13450, county#13461, transaction_type#13462, fc_transaction_date#13463, fc_recorded_date#13464, fcdateupdated#13508, fctransactionid#13467, ((isnotnull(pdf_id#13489) AND (transaction_type#13462 = MORTGAGE)) <=> true) AS has_pdf#13542]

(1883) PhotonGroupingAgg
Input [11]: [party_name#13447, party_id#13448, company_id#13449, deleted_at#13450, county#13461, transaction_type#13462, fc_transaction_date#13463, fc_recorded_date#13464, fcdateupdated#13508, fctransactionid#13467, has_pdf#13542]
Arguments: [party_name#13447, party_id#13448, company_id#13449, deleted_at#13450, county#13461, transaction_type#13462, fc_transaction_date#13463, fc_recorded_date#13464, fcdateupdated#13508, fctransactionid#13467, has_pdf#13542], [party_name#13447, party_id#13448, company_id#13449, deleted_at#13450, county#13461, transaction_type#13462, fc_transaction_date#13463, fc_recorded_date#13464, fcdateupdated#13508, fctransactionid#13467, has_pdf#13542], false

(1884) PhotonShuffleExchangeSink
Input [11]: [party_name#13447, party_id#13448, company_id#13449, deleted_at#13450, county#13461, transaction_type#13462, fc_transaction_date#13463, fc_recorded_date#13464, fcdateupdated#13508, fctransactionid#13467, has_pdf#13542]
Arguments: hashpartitioning(party_name#13447, party_id#13448, company_id#13449, deleted_at#13450, county#13461, transaction_type#13462, fc_transaction_date#13463, fc_recorded_date#13464, fcdateupdated#13508, fctransactionid#13467, has_pdf#13542, 200)

(1885) PhotonShuffleMapStage
Input [11]: [party_name#13447, party_id#13448, company_id#13449, deleted_at#13450, county#13461, transaction_type#13462, fc_transaction_date#13463, fc_recorded_date#13464, fcdateupdated#13508, fctransactionid#13467, has_pdf#13542]
Arguments: ENSURE_REQUIREMENTS, [id=#152468]

(1886) PhotonShuffleExchangeSource
Input [11]: [party_name#13447, party_id#13448, company_id#13449, deleted_at#13450, county#13461, transaction_type#13462, fc_transaction_date#13463, fc_recorded_date#13464, fcdateupdated#13508, fctransactionid#13467, has_pdf#13542]

(1887) PhotonGroupingAgg
Input [11]: [party_name#13447, party_id#13448, company_id#13449, deleted_at#13450, county#13461, transaction_type#13462, fc_transaction_date#13463, fc_recorded_date#13464, fcdateupdated#13508, fctransactionid#13467, has_pdf#13542]
Arguments: [party_name#13447, party_id#13448, company_id#13449, deleted_at#13450, county#13461, transaction_type#13462, fc_transaction_date#13463, fc_recorded_date#13464, fcdateupdated#13508, fctransactionid#13467, has_pdf#13542], [party_name#13447, party_id#13448, company_id#13449, deleted_at#13450, county#13461, transaction_type#13462, fc_transaction_date#13463, fc_recorded_date#13464, fcdateupdated#13508, fctransactionid#13467, has_pdf#13542], true

(1888) PhotonGroupingAgg
Input [11]: [party_name#13447, party_id#13448, company_id#13449, deleted_at#13450, county#13461, transaction_type#13462, fc_transaction_date#13463, fc_recorded_date#13464, fcdateupdated#13508, fctransactionid#13467, has_pdf#13542]
Arguments: [party_name#13447, party_id#13448, company_id#13449, deleted_at#13450, county#13461, transaction_type#13462, fc_transaction_date#13463, fc_recorded_date#13464, fcdateupdated#13508, fctransactionid#13467, has_pdf#13542], [party_name#13447, party_id#13448, company_id#13449, deleted_at#13450, county#13461, transaction_type#13462, fc_transaction_date#13463, fc_recorded_date#13464, fcdateupdated#13508, fctransactionid#13467, has_pdf#13542], false

(1889) PhotonShuffleExchangeSink
Input [11]: [party_name#13447, party_id#13448, company_id#13449, deleted_at#13450, county#13461, transaction_type#13462, fc_transaction_date#13463, fc_recorded_date#13464, fcdateupdated#13508, fctransactionid#13467, has_pdf#13542]
Arguments: hashpartitioning(party_name#13447, party_id#13448, company_id#13449, deleted_at#13450, county#13461, transaction_type#13462, fc_transaction_date#13463, fc_recorded_date#13464, fcdateupdated#13508, fctransactionid#13467, has_pdf#13542, 200)

(1890) PhotonUnionShuffleExchangeSink

(1891) PhotonUnionShuffleMapStage
Input [11]: [party_name#13338, party_id#13339, company_id#13340, deleted_at#13341, county#13352, transaction_type#13353, fc_transaction_date#13354, fc_recorded_date#13355, fcdateupdated#13398, fctransactionid#13358, has_pdf#13430]
Arguments: ENSURE_REQUIREMENTS, [id=#152481]

(1892) PhotonShuffleExchangeSource
Input [11]: [party_name#13338, party_id#13339, company_id#13340, deleted_at#13341, county#13352, transaction_type#13353, fc_transaction_date#13354, fc_recorded_date#13355, fcdateupdated#13398, fctransactionid#13358, has_pdf#13430]

(1893) PhotonGroupingAgg
Input [11]: [party_name#13338, party_id#13339, company_id#13340, deleted_at#13341, county#13352, transaction_type#13353, fc_transaction_date#13354, fc_recorded_date#13355, fcdateupdated#13398, fctransactionid#13358, has_pdf#13430]
Arguments: [party_name#13338, party_id#13339, company_id#13340, deleted_at#13341, county#13352, transaction_type#13353, fc_transaction_date#13354, fc_recorded_date#13355, fcdateupdated#13398, fctransactionid#13358, has_pdf#13430], [party_id#13339, county#13352, fc_transaction_date#13354, fc_recorded_date#13355, fctransactionid#13358], true

(1894) PhotonSort
Input [5]: [party_id#13339, county#13352, fc_transaction_date#13354, fc_recorded_date#13355, fctransactionid#13358]
Arguments: [party_id#13339 ASC NULLS FIRST, fc_recorded_date#13355 DESC NULLS LAST, fc_transaction_date#13354 DESC NULLS LAST]

(1895) PhotonWindow
Input [5]: [party_id#13339, county#13352, fc_transaction_date#13354, fc_recorded_date#13355, fctransactionid#13358]
Arguments: [party_id#13339, county#13352, fc_transaction_date#13354, fc_recorded_date#13355, fctransactionid#13358, row_number()]

windowspecdefinition(party_id#13339, fc_recorded_date#13355 DESC NULLS LAST, fc_transaction_date#13354 DESC NULLS LAST, specifiedwindowframe(RowFrame, unboundedpreceding\$(), currentrow\$())) AS _local_row_number#14276]

(1896) PhotonFilter

Input [6]: [party_id#13339, county#13352, fc_transaction_date#13354, fc_recorded_date#13355, fctransactionid#13358, _local_row_number#14276]

Arguments: (_local_row_number#14276 <= 1)

(1897) PhotonProject

Input [6]: [party_id#13339, county#13352, fc_transaction_date#13354, fc_recorded_date#13355, fctransactionid#13358, _local_row_number#14276]

Arguments: [party_id#13339, county#13352, fc_transaction_date#13354, fc_recorded_date#13355, fctransactionid#13358]

(1898) PhotonShuffleExchangeSink

Input [5]: [party_id#13339, county#13352, fc_transaction_date#13354, fc_recorded_date#13355, fctransactionid#13358]

Arguments: hashpartitioning(party_id#13339, 200)

(1899) PhotonShuffleMapStage

Input [5]: [party_id#13339, county#13352, fc_transaction_date#13354, fc_recorded_date#13355, fctransactionid#13358]

Arguments: ENSURE_REQUIREMENTS, [id=#152495]

(1900) PhotonShuffleExchangeSource

Input [5]: [party_id#13339, county#13352, fc_transaction_date#13354, fc_recorded_date#13355, fctransactionid#13358]

(1901) PhotonSort

Input [5]: [party_id#13339, county#13352, fc_transaction_date#13354, fc_recorded_date#13355, fctransactionid#13358]

Arguments: [party_id#13339 ASC NULLS FIRST, fc_recorded_date#13355 DESC NULLS LAST, fc_transaction_date#13354 DESC NULLS LAST]

(1902) PhotonWindow

Input [5]: [party_id#13339, county#13352, fc_transaction_date#13354, fc_recorded_date#13355, fctransactionid#13358]

Arguments: [party_id#13339, county#13352, fctransactionid#13358, row_number() windowspecdefinition(party_id#13339, fc_recorded_date#13355 DESC NULLS LAST, fc_transaction_date#13354 DESC NULLS LAST, specifiedwindowframe(RowFrame, unboundedpreceding\$(), currentrow\$())) AS rn#13572]

(1903) PhotonFilter

Input [4]: [party_id#13339, county#13352, fctransactionid#13358, rn#13572]

Arguments: (rn#13572 = 1)

(1904) PhotonProject

Input [4]: [party_id#13339, county#13352, fctransactionid#13358, rn#13572]

Arguments: [party_id#13339, county#13352, fctransactionid#13358]

(1905) PhotonShuffleExchangeSink

Input [3]: [party_id#13339, county#13352, fctransactionid#13358]

Arguments: hashpartitioning(fctransactionid#13358, 200)

(1906) PhotonShuffleMapStage

Input [3]: [party_id#13339, county#13352, fctransactionid#13358]

Arguments: ENSURE_REQUIREMENTS, [id=#152507]

(1907) PhotonShuffleExchangeSource

Input [3]: [party_id#13339, county#13352, fctransactionid#13358]

(1908) PhotonRowToColumnar

Input [3]: [fc_recorded_date#13589, fc_cross_party#13590, fctransactionid#13592]

(1909) PhotonShuffleExchangeSink

Input [3]: [fc_recorded_date#13589, fc_cross_party#13590, fctransactionid#13592]

Arguments: hashpartitioning(fctransactionid#13592, 200)

(1910) PhotonShuffleMapStage

Input [3]: [fc_recorded_date#13589, fc_cross_party#13590, fctransactionid#13592]

Arguments: ENSURE_REQUIREMENTS, [id=#152512]

(1911) PhotonShuffleExchangeSource

Input [3]: [fc_recorded_date#13589, fc_cross_party#13590, fctransactionid#13592]

(1912) PhotonShuffledHashJoin

Left keys [1]: [fctransactionid#13358]

Right keys [1]: [fctransactionid#13592]

Join type: Inner

Join condition: None

(1913) PhotonProject

Input [6]: [party_id#13339, county#13352, fctransactionid#13358, fc_recorded_date#13589, fc_cross_party#13590, fctransactionid#13592]

Arguments: [party_id#13339, substring(fc_cross_party#13590, 1, 200) AS Last Lender Used#13602, FC_Recorded_Date#13589 AS Last_Mortgage_Date#13603, County#13352 AS last_county#13604]

(1914) PhotonShuffleExchangeSink

Input [4]: [party_id#13339, Last Lender Used#13602, Last_Mortgage_Date#13603, last_county#13604]

Arguments: hashpartitioning(party_id#13339, 200)

(1915) PhotonShuffleMapStage

Input [4]: [party_id#13339, Last Lender Used#13602, Last_Mortgage_Date#13603, last_county#13604]
Arguments: ENSURE_REQUIREMENTS, [id=#152524]

(1916) PhotonShuffleExchangeSource

Input [4]: [party_id#13339, Last Lender Used#13602, Last_Mortgage_Date#13603, last_county#13604]

(1917) PhotonShuffledHashJoin

Left keys [1]: [party_id#12418]

Right keys [1]: [party_id#13339]

Join type: LeftOuter

Join condition: None

(1918) PhotonProject

Input [24]: [party_name#12417, party_id#12418, company_id#12419, deleted_at#12648, has_pdf#12649, Mortgage Transactions#12650L, Deed Transactions#12651L, Satisfaction of Mortgage Transactions#12652L, Assignment of Mortgage Transactions#12653L, lis_pendens_transactions#12654L, judgment_transactions#12655L, loan_modification_transactions#12656L, Most Recent Transaction#12879, fcdateupdated#12880, Last Purchase Date#12994, Last Sale Date#13104, Transactions as Seller#13217L, Transactions as Borrower#13218L, Transactions as Buyer#13336L, Transactions as Lender#13337L, party_id#13339, Last Lender Used#13602, Last_Mortgage_Date#13603, last_county#13604]

Arguments: [party_name#12417, party_id#12418, company_id#12419, deleted_at#12648, has_pdf#12649, Mortgage Transactions#12650L, Deed Transactions#12651L, Satisfaction of Mortgage Transactions#12652L, Assignment of Mortgage Transactions#12653L, lis_pendens_transactions#12654L, judgment_transactions#12655L, loan_modification_transactions#12656L, Most Recent Transaction#12879, fcdateupdated#12880, Last Purchase Date#12994, Last Sale Date#13104, Transactions as Seller#13217L, Transactions as Borrower#13218L, Transactions as Buyer#13336L, Transactions as Lender#13337L, Last Lender Used#13602, Last_Mortgage_Date#13603, last_county#13604]

(1919) PhotonLocalLimit

Input [23]: [party_name#12417, party_id#12418, company_id#12419, deleted_at#12648, has_pdf#12649, Mortgage Transactions#12650L, Deed Transactions#12651L, Satisfaction of Mortgage Transactions#12652L, Assignment of Mortgage Transactions#12653L, lis_pendens_transactions#12654L, judgment_transactions#12655L, loan_modification_transactions#12656L, Most Recent Transaction#12879, fcdateupdated#12880, Last Purchase Date#12994, Last Sale Date#13104, Transactions as Seller#13217L, Transactions as Borrower#13218L, Transactions as Buyer#13336L, Transactions as Lender#13337L, Last Lender Used#13602, Last_Mortgage_Date#13603, last_county#13604]
Arguments: 21

(1920) PhotonSort

Input [23]: [party_name#12417, party_id#12418, company_id#12419, deleted_at#12648, has_pdf#12649, Mortgage Transactions#12650L, Deed Transactions#12651L, Satisfaction of Mortgage Transactions#12652L, Assignment of Mortgage Transactions#12653L, lis_pendens_transactions#12654L, judgment_transactions#12655L, loan_modification_transactions#12656L, Most Recent Transaction#12879, fcdateupdated#12880, Last Purchase Date#12994, Last Sale Date#13104, Transactions as Seller#13217L, Transactions as Borrower#13218L, Transactions as Buyer#13336L, Transactions as Lender#13337L, Last Lender Used#13602, Last_Mortgage_Date#13603, last_county#13604]
Arguments: [party_id#12418 ASC NULLS FIRST]

(1921) PhotonResultStage

Input [23]: [party_name#12417, party_id#12418, company_id#12419, deleted_at#12648, has_pdf#12649, Mortgage Transactions#12650L, Deed Transactions#12651L, Satisfaction of Mortgage Transactions#12652L, Assignment of Mortgage Transactions#12653L, lis_pendens_transactions#12654L, judgment_transactions#12655L, loan_modification_transactions#12656L, Most Recent Transaction#12879, fcdateupdated#12880, Last Purchase Date#12994, Last Sale Date#13104, Transactions as Seller#13217L, Transactions as Borrower#13218L, Transactions as Buyer#13336L, Transactions as Lender#13337L, Last Lender Used#13602, Last_Mortgage_Date#13603, last_county#13604]

(1922) ColumnarToRow

Input [23]: [party_name#12417, party_id#12418, company_id#12419, deleted_at#12648, has_pdf#12649, Mortgage Transactions#12650L, Deed Transactions#12651L, Satisfaction of Mortgage Transactions#12652L, Assignment of Mortgage Transactions#12653L, lis_pendens_transactions#12654L, judgment_transactions#12655L, loan_modification_transactions#12656L, Most Recent Transaction#12879, fcdateupdated#12880, Last Purchase Date#12994, Last Sale Date#13104, Transactions as Seller#13217L, Transactions as Borrower#13218L, Transactions as Buyer#13336L, Transactions as Lender#13337L, Last Lender Used#13602, Last_Mortgage_Date#13603, last_county#13604]

(1923) PhotonRowToColumnar

Input [5]: [party_name#13605, party_id#13606, company_id#13607, deleted_at#13608, updated_at#13609]

(1924) PhotonShuffleExchangeSink

Input [5]: [party_name#13605, party_id#13606, company_id#13607, deleted_at#13608, updated_at#13609]

Arguments: hashpartitioning(party_id#13606, 200)

(1925) PhotonShuffleMapStage

Input [5]: [party_name#13605, party_id#13606, company_id#13607, deleted_at#13608, updated_at#13609]

Arguments: ENSURE_REQUIREMENTS, [id=#152535]

(1926) PhotonShuffleExchangeSource

Input [5]: [party_name#13605, party_id#13606, company_id#13607, deleted_at#13608, updated_at#13609]

(1927) PhotonRowToColumnar

Input [2]: [party_id#13615, transaction_id#13616]

(1928) PhotonShuffleExchangeSink

Input [2]: [party_id#13615, transaction_id#13616]

Arguments: hashpartitioning(party_id#13615, 200)

(1929) PhotonShuffleMapStage

Input [2]: [party_id#13615, transaction_id#13616]

Arguments: ENSURE_REQUIREMENTS, [id=#152540]

(1930) PhotonShuffleExchangeSource

Input [2]: [party_id#13615, transaction_id#13616]

(1931) PhotonShuffledHashJoin
Left keys [1]: [party_id#13606]
Right keys [1]: [party_id#13615]
Join type: Inner
Join condition: None

(1932) PhotonProject
Input [7]: [party_name#13605, party_id#13606, company_id#13607, deleted_at#13608, updated_at#13609, party_id#13615, transaction_id#13616]
Arguments: [party_id#13606, party_name#13605, company_id#13607, deleted_at#13608, updated_at#13609, transaction_id#13616]

(1933) PhotonGroupingAgg
Input [6]: [party_id#13606, party_name#13605, company_id#13607, deleted_at#13608, updated_at#13609, transaction_id#13616]
Arguments: [party_name#13605, party_id#13606, company_id#13607, deleted_at#13608, transaction_id#13616, updated_at#13609], [party_name#13605, party_id#13606, company_id#13607, deleted_at#13608, transaction_id#13616, updated_at#13609], false

(1934) PhotonShuffleExchangeSink
Input [6]: [party_name#13605, party_id#13606, company_id#13607, deleted_at#13608, transaction_id#13616, updated_at#13609]
Arguments: hashpartitioning(transaction_id#13616, 200)

(1935) PhotonShuffleMapStage
Input [6]: [party_name#13605, party_id#13606, company_id#13607, deleted_at#13608, transaction_id#13616, updated_at#13609]
Arguments: ENSURE_REQUIREMENTS, [id=#152550]

(1936) PhotonShuffleExchangeSource
Input [6]: [party_name#13605, party_id#13606, company_id#13607, deleted_at#13608, transaction_id#13616, updated_at#13609]

(1937) PhotonRowToColumnar
Input [7]: [county#13619, transaction_type#13620, fc_transaction_date#13621, fc_recorded_date#13622, fcdateupdated#13624, fctransactionid#13625, pdf_id#13626]

(1938) PhotonShuffleExchangeSink
Input [7]: [county#13619, transaction_type#13620, fc_transaction_date#13621, fc_recorded_date#13622, fcdateupdated#13624, fctransactionid#13625, pdf_id#13626]
Arguments: hashpartitioning(fctransactionid#13625, 200)

(1939) PhotonShuffleMapStage
Input [7]: [county#13619, transaction_type#13620, fc_transaction_date#13621, fc_recorded_date#13622, fcdateupdated#13624, fctransactionid#13625, pdf_id#13626]
Arguments: ENSURE_REQUIREMENTS, [id=#152555]

(1940) PhotonShuffleExchangeSource
Input [7]: [county#13619, transaction_type#13620, fc_transaction_date#13621, fc_recorded_date#13622, fcdateupdated#13624, fctransactionid#13625, pdf_id#13626]

(1941) PhotonShuffledHashJoin
Left keys [1]: [transaction_id#13616]
Right keys [1]: [fctransactionid#13625]
Join type: Inner
Join condition: None

(1942) PhotonProject
Input [13]: [party_name#13605, party_id#13606, company_id#13607, deleted_at#13608, transaction_id#13616, updated_at#13609, county#13619, transaction_type#13620, fc_transaction_date#13621, fc_recorded_date#13622, fcdateupdated#13624, fctransactionid#13625, pdf_id#13626]
Arguments: [party_name#13605, party_id#13606, company_id#13607, deleted_at#13608, county#13619, transaction_type#13620, fc_transaction_date#13621, fc_recorded_date#13622, greatest(fcdateupdated#13624, updated_at#13609) AS fcdateupdated#13665, fctransactionid#13625, pdf_id#13626]

(1943) PhotonGroupingAgg
Input [11]: [party_name#13605, party_id#13606, company_id#13607, deleted_at#13608, county#13619, transaction_type#13620, fc_transaction_date#13621, fc_recorded_date#13622, fcdateupdated#13665, fctransactionid#13625, pdf_id#13626]
Arguments: [party_name#13605, party_id#13606, company_id#13607, deleted_at#13608, county#13619, transaction_type#13620, fc_transaction_date#13621, fc_recorded_date#13622, fcdateupdated#13665, fctransactionid#13625, pdf_id#13626], [party_name#13605, party_id#13606, company_id#13607, deleted_at#13608, county#13619, transaction_type#13620, fc_transaction_date#13621, fc_recorded_date#13622, fcdateupdated#13665, fctransactionid#13625, pdf_id#13626], false

(1944) PhotonShuffleExchangeSink
Input [11]: [party_name#13605, party_id#13606, company_id#13607, deleted_at#13608, county#13619, transaction_type#13620, fc_transaction_date#13621, fc_recorded_date#13622, fcdateupdated#13665, fctransactionid#13625, pdf_id#13626]
Arguments: hashpartitioning(party_id#13606, 200)

(1945) PhotonShuffleMapStage
Input [11]: [party_name#13605, party_id#13606, company_id#13607, deleted_at#13608, county#13619, transaction_type#13620, fc_transaction_date#13621, fc_recorded_date#13622, fcdateupdated#13665, fctransactionid#13625, pdf_id#13626]
Arguments: ENSURE_REQUIREMENTS, [id=#152566]

(1946) PhotonShuffleExchangeSource
Input [11]: [party_name#13605, party_id#13606, company_id#13607, deleted_at#13608, county#13619, transaction_type#13620, fc_transaction_date#13621, fc_recorded_date#13622, fcdateupdated#13665, fctransactionid#13625, pdf_id#13626]

(1947) PhotonRowToColumnar
Input [2]: [party_id#13635, transaction_id#13636]

(1948) PhotonShuffleExchangeSink

Input [2]: [party_id#13635, transaction_id#13636]
Arguments: hashpartitioning(transaction_id#13636, 200)

(1949) PhotonShuffleMapStage
Input [2]: [party_id#13635, transaction_id#13636]
Arguments: ENSURE_REQUIREMENTS, [id=#152571]

(1950) PhotonShuffleExchangeSource
Input [2]: [party_id#13635, transaction_id#13636]

(1951) PhotonRowToColumnar
Input [1]: [fc_transaction_id#13639]

(1952) PhotonShuffleExchangeSink
Input [1]: [fc_transaction_id#13639]
Arguments: hashpartitioning(fc_transaction_id#13639, 200)

(1953) PhotonShuffleMapStage
Input [1]: [fc_transaction_id#13639]
Arguments: ENSURE_REQUIREMENTS, [id=#152576]

(1954) PhotonShuffleExchangeSource
Input [1]: [fc_transaction_id#13639]

(1955) PhotonShuffledHashJoin
Left keys [1]: [transaction_id#13636]
Right keys [1]: [fc_transaction_id#13639]
Join type: LeftSemi
Join condition: None

(1956) PhotonProject
Input [2]: [party_id#13635, transaction_id#13636]
Arguments: [party_id#13635]

(1957) PhotonGroupingAgg
Input [1]: [party_id#13635]
Arguments: [party_id#13635], [party_id#13635], false

(1958) PhotonShuffleExchangeSink
Input [1]: [party_id#13635]
Arguments: hashpartitioning(party_id#13635, 200)

(1959) PhotonShuffleMapStage
Input [1]: [party_id#13635]
Arguments: ENSURE_REQUIREMENTS, [id=#152586]

(1960) PhotonShuffleExchangeSource
Input [1]: [party_id#13635]

(1961) PhotonGroupingAgg
Input [1]: [party_id#13635]
Arguments: [party_id#13635], [party_id#13635], true

(1962) PhotonGroupingAgg
Input [1]: [party_id#13635]
Arguments: [party_id#13635], [party_id#13635], false

(1963) PhotonShuffleExchangeSink
Input [1]: [party_id#13635]
Arguments: hashpartitioning(party_id#13635, 200)

(1964) PhotonRowToColumnar
Input [2]: [party_id#13641, transaction_id#13642]

(1965) PhotonShuffleExchangeSink
Input [2]: [party_id#13641, transaction_id#13642]
Arguments: hashpartitioning(transaction_id#13642, 200)

(1966) PhotonShuffleMapStage
Input [2]: [party_id#13641, transaction_id#13642]
Arguments: ENSURE_REQUIREMENTS, [id=#152595]

(1967) PhotonShuffleExchangeSource
Input [2]: [party_id#13641, transaction_id#13642]

(1968) PhotonRowToColumnar
Input [1]: [fc_transaction_id#13645]

(1969) PhotonShuffleExchangeSink
Input [1]: [fc_transaction_id#13645]
Arguments: hashpartitioning(fc_transaction_id#13645, 200)

(1970) PhotonShuffleMapStage

Input [1]: [fc_transaction_id#13645]
Arguments: ENSURE_REQUIREMENTS, [id=#152600]

(1971) PhotonShuffleExchangeSource
Input [1]: [fc_transaction_id#13645]

(1972) PhotonShuffledHashJoin
Left keys [1]: [transaction_id#13642]
Right keys [1]: [fc_transaction_id#13645]
Join type: LeftSemi
Join condition: None

(1973) PhotonProject
Input [2]: [party_id#13641, transaction_id#13642]
Arguments: [party_id#13641]

(1974) PhotonGroupingAgg
Input [1]: [party_id#13641]
Arguments: [party_id#13641], [party_id#13641], false

(1975) PhotonShuffleExchangeSink
Input [1]: [party_id#13641]
Arguments: hashpartitioning(party_id#13641, 200)

(1976) PhotonShuffleMapStage
Input [1]: [party_id#13641]
Arguments: ENSURE_REQUIREMENTS, [id=#152610]

(1977) PhotonShuffleExchangeSource
Input [1]: [party_id#13641]

(1978) PhotonGroupingAgg
Input [1]: [party_id#13641]
Arguments: [party_id#13641], [party_id#13641], true

(1979) PhotonGroupingAgg
Input [1]: [party_id#13641]
Arguments: [party_id#13641], [party_id#13641], false

(1980) PhotonShuffleExchangeSink
Input [1]: [party_id#13641]
Arguments: hashpartitioning(party_id#13641, 200)

(1981) PhotonUnionShuffleExchangeSink

(1982) PhotonUnionShuffleMapStage
Input [1]: [party_id#13635]
Arguments: ENSURE_REQUIREMENTS, [id=#152623]

(1983) PhotonShuffleExchangeSource
Input [1]: [party_id#13635]

(1984) PhotonShuffledHashJoin
Left keys [1]: [party_id#13606]
Right keys [1]: [party_id#13635]
Join type: LeftSemi
Join condition: None

(1985) PhotonGroupingAgg
Input [11]: [party_name#13605, party_id#13606, company_id#13607, deleted_at#13608, county#13619, transaction_type#13620, fc_transaction_date#13621, fc_recorded_date#13622, fcdateupdated#13665, fctransactionid#13625, pdf_id#13626]
Arguments: [party_name#13605, party_id#13606, company_id#13607, deleted_at#13608, county#13619, transaction_type#13620, fc_transaction_date#13621, fc_recorded_date#13622, fcdateupdated#13665, fctransactionid#13625, pdf_id#13626], [party_name#13605, party_id#13606, company_id#13607, deleted_at#13608, county#13619, transaction_type#13620, fc_transaction_date#13621, fc_recorded_date#13622, fcdateupdated#13665, fctransactionid#13625, pdf_id#13626], false

(1986) PhotonShuffleExchangeSink
Input [11]: [party_name#13605, party_id#13606, company_id#13607, deleted_at#13608, county#13619, transaction_type#13620, fc_transaction_date#13621, fc_recorded_date#13622, fcdateupdated#13665, fctransactionid#13625, pdf_id#13626]
Arguments: hashpartitioning(pdf_id#13626, 200)

(1987) PhotonShuffleMapStage
Input [11]: [party_name#13605, party_id#13606, company_id#13607, deleted_at#13608, county#13619, transaction_type#13620, fc_transaction_date#13621, fc_recorded_date#13622, fcdateupdated#13665, fctransactionid#13625, pdf_id#13626]
Arguments: ENSURE_REQUIREMENTS, [id=#152636]

(1988) PhotonShuffleExchangeSource
Input [11]: [party_name#13605, party_id#13606, company_id#13607, deleted_at#13608, county#13619, transaction_type#13620, fc_transaction_date#13621, fc_recorded_date#13622, fcdateupdated#13665, fctransactionid#13625, pdf_id#13626]

(1989) PhotonRowToColumnar
Input [1]: [pdf_id#13647]

(1990) PhotonShuffleExchangeSink
Input [1]: [pdf_id#13647]
Arguments: hashpartitioning(pdf_id#13647, 200)

(1991) PhotonShuffleMapStage
Input [1]: [pdf_id#13647]
Arguments: ENSURE_REQUIREMENTS, [id=#152641]

(1992) PhotonShuffleExchangeSource
Input [1]: [pdf_id#13647]

(1993) PhotonShuffledHashJoin
Left keys [1]: [pdf_id#13626]
Right keys [1]: [pdf_id#13647]
Join type: LeftOuter
Join condition: None

(1994) PhotonProject
Input [12]: [party_name#13605, party_id#13606, company_id#13607, deleted_at#13608, county#13619, transaction_type#13620, fc_transaction_date#13621, fc_recorded_date#13622, fcdateupdated#13665, fctransactionid#13625, pdf_id#13626, pdf_id#13647]
Arguments: [party_name#13605, party_id#13606, company_id#13607, deleted_at#13608, county#13619, transaction_type#13620, fc_transaction_date#13621, fc_recorded_date#13622, fcdateupdated#13665, fctransactionid#13625, ((isnotnull(pdf_id#13647) AND (transaction_type#13620 = MORTGAGE)) <=> true) AS has_pdf#13697]

(1995) PhotonGroupingAgg
Input [11]: [party_name#13605, party_id#13606, company_id#13607, deleted_at#13608, county#13619, transaction_type#13620, fc_transaction_date#13621, fc_recorded_date#13622, fcdateupdated#13665, fctransactionid#13625, has_pdf#13697]
Arguments: [party_name#13605, party_id#13606, company_id#13607, deleted_at#13608, county#13619, transaction_type#13620, fc_transaction_date#13621, fc_recorded_date#13622, fcdateupdated#13665, fctransactionid#13625, has_pdf#13697], [party_name#13605, party_id#13606, company_id#13607, deleted_at#13608, county#13619, transaction_type#13620, fc_transaction_date#13621, fc_recorded_date#13622, fcdateupdated#13665, fctransactionid#13625, has_pdf#13697], false

(1996) PhotonShuffleExchangeSink
Input [11]: [party_name#13605, party_id#13606, company_id#13607, deleted_at#13608, county#13619, transaction_type#13620, fc_transaction_date#13621, fc_recorded_date#13622, fcdateupdated#13665, fctransactionid#13625, has_pdf#13697]
Arguments: hashpartitioning(party_name#13605, party_id#13606, company_id#13607, deleted_at#13608, county#13619, transaction_type#13620, fc_transaction_date#13621, fc_recorded_date#13622, fcdateupdated#13665, fctransactionid#13625, has_pdf#13697, 200)

(1997) PhotonShuffleMapStage
Input [11]: [party_name#13605, party_id#13606, company_id#13607, deleted_at#13608, county#13619, transaction_type#13620, fc_transaction_date#13621, fc_recorded_date#13622, fcdateupdated#13665, fctransactionid#13625, has_pdf#13697]
Arguments: ENSURE_REQUIREMENTS, [id=#152652]

(1998) PhotonShuffleExchangeSource
Input [11]: [party_name#13605, party_id#13606, company_id#13607, deleted_at#13608, county#13619, transaction_type#13620, fc_transaction_date#13621, fc_recorded_date#13622, fcdateupdated#13665, fctransactionid#13625, has_pdf#13697]

(1999) PhotonGroupingAgg
Input [11]: [party_name#13605, party_id#13606, company_id#13607, deleted_at#13608, county#13619, transaction_type#13620, fc_transaction_date#13621, fc_recorded_date#13622, fcdateupdated#13665, fctransactionid#13625, has_pdf#13697]
Arguments: [party_name#13605, party_id#13606, company_id#13607, deleted_at#13608, county#13619, transaction_type#13620, fc_transaction_date#13621, fc_recorded_date#13622, fcdateupdated#13665, fctransactionid#13625, has_pdf#13697], [party_name#13605, party_id#13606, company_id#13607, deleted_at#13608, county#13619, transaction_type#13620, fc_transaction_date#13621, fc_recorded_date#13622, fcdateupdated#13665, fctransactionid#13625, has_pdf#13697], true

(2000) PhotonGroupingAgg
Input [11]: [party_name#13605, party_id#13606, company_id#13607, deleted_at#13608, county#13619, transaction_type#13620, fc_transaction_date#13621, fc_recorded_date#13622, fcdateupdated#13665, fctransactionid#13625, has_pdf#13697]
Arguments: [party_name#13605, party_id#13606, company_id#13607, deleted_at#13608, county#13619, transaction_type#13620, fc_transaction_date#13621, fc_recorded_date#13622, fcdateupdated#13665, fctransactionid#13625, has_pdf#13697], [party_name#13605, party_id#13606, company_id#13607, deleted_at#13608, county#13619, transaction_type#13620, fc_transaction_date#13621, fc_recorded_date#13622, fcdateupdated#13665, fctransactionid#13625, has_pdf#13697], false

(2001) PhotonShuffleExchangeSink
Input [11]: [party_name#13605, party_id#13606, company_id#13607, deleted_at#13608, county#13619, transaction_type#13620, fc_transaction_date#13621, fc_recorded_date#13622, fcdateupdated#13665, fctransactionid#13625, has_pdf#13697]
Arguments: hashpartitioning(party_name#13605, party_id#13606, company_id#13607, deleted_at#13608, county#13619, transaction_type#13620, fc_transaction_date#13621, fc_recorded_date#13622, fcdateupdated#13665, fctransactionid#13625, has_pdf#13697, 200)

(2002) PhotonRowToColumnar
Input [5]: [party_name#13714, party_id#13715, company_id#13716, deleted_at#13717, updated_at#13718]

(2003) PhotonShuffleExchangeSink
Input [5]: [party_name#13714, party_id#13715, company_id#13716, deleted_at#13717, updated_at#13718]
Arguments: hashpartitioning(party_id#13715, 200)

(2004) PhotonShuffleMapStage
Input [5]: [party_name#13714, party_id#13715, company_id#13716, deleted_at#13717, updated_at#13718]
Arguments: ENSURE_REQUIREMENTS, [id=#152661]

(2005) PhotonShuffleExchangeSource
Input [5]: [party_name#13714, party_id#13715, company_id#13716, deleted_at#13717, updated_at#13718]

(2006) PhotonRowToColumnar
Input [2]: [party_id#13724, transaction_id#13725]

(2007) PhotonShuffleExchangeSink
Input [2]: [party_id#13724, transaction_id#13725]
Arguments: hashpartitioning(party_id#13724, 200)

(2008) PhotonShuffleMapStage
Input [2]: [party_id#13724, transaction_id#13725]
Arguments: ENSURE_REQUIREMENTS, [id=#152666]

(2009) PhotonShuffleExchangeSource
Input [2]: [party_id#13724, transaction_id#13725]

(2010) PhotonShuffledHashJoin
Left keys [1]: [party_id#13715]
Right keys [1]: [party_id#13724]
Join type: Inner
Join condition: None

(2011) PhotonProject
Input [7]: [party_name#13714, party_id#13715, company_id#13716, deleted_at#13717, updated_at#13718, party_id#13724, transaction_id#13725]
Arguments: [party_id#13715, party_name#13714, company_id#13716, deleted_at#13717, updated_at#13718, transaction_id#13725]

(2012) PhotonGroupingAgg
Input [6]: [party_id#13715, party_name#13714, company_id#13716, deleted_at#13717, updated_at#13718, transaction_id#13725]
Arguments: [party_name#13714, party_id#13715, company_id#13716, deleted_at#13717, transaction_id#13725, updated_at#13718], [party_name#13714, party_id#13715, company_id#13716, deleted_at#13717, transaction_id#13725, updated_at#13718], false

(2013) PhotonShuffleExchangeSink
Input [6]: [party_name#13714, party_id#13715, company_id#13716, deleted_at#13717, transaction_id#13725, updated_at#13718]
Arguments: hashpartitioning(transaction_id#13725, 200)

(2014) PhotonShuffleMapStage
Input [6]: [party_name#13714, party_id#13715, company_id#13716, deleted_at#13717, transaction_id#13725, updated_at#13718]
Arguments: ENSURE_REQUIREMENTS, [id=#152676]

(2015) PhotonShuffleExchangeSource
Input [6]: [party_name#13714, party_id#13715, company_id#13716, deleted_at#13717, transaction_id#13725, updated_at#13718]

(2016) PhotonRowToColumnar
Input [7]: [county#13728, transaction_type#13729, fc_transaction_date#13730, fc_recorded_date#13731, fcdateupdated#13733, fctransactionid#13734, pdf_id#13735]

(2017) PhotonShuffleExchangeSink
Input [7]: [county#13728, transaction_type#13729, fc_transaction_date#13730, fc_recorded_date#13731, fcdateupdated#13733, fctransactionid#13734, pdf_id#13735]
Arguments: hashpartitioning(fctransactionid#13734, 200)

(2018) PhotonShuffleMapStage
Input [7]: [county#13728, transaction_type#13729, fc_transaction_date#13730, fc_recorded_date#13731, fcdateupdated#13733, fctransactionid#13734, pdf_id#13735]
Arguments: ENSURE_REQUIREMENTS, [id=#152681]

(2019) PhotonShuffleExchangeSource
Input [7]: [county#13728, transaction_type#13729, fc_transaction_date#13730, fc_recorded_date#13731, fcdateupdated#13733, fctransactionid#13734, pdf_id#13735]

(2020) PhotonShuffledHashJoin
Left keys [1]: [transaction_id#13725]
Right keys [1]: [fctransactionid#13734]
Join type: Inner
Join condition: None

(2021) PhotonProject
Input [13]: [party_name#13714, party_id#13715, company_id#13716, deleted_at#13717, transaction_id#13725, updated_at#13718, county#13728, transaction_type#13729, fc_transaction_date#13730, fc_recorded_date#13731, fcdateupdated#13733, fctransactionid#13734, pdf_id#13735]
Arguments: [party_name#13714, party_id#13715, company_id#13716, deleted_at#13717, county#13728, transaction_type#13729, fc_transaction_date#13730, fc_recorded_date#13731, greatest(fcdateupdated#13733, updated_at#13718) AS fcdateupdated#13775, fctransactionid#13734, pdf_id#13735]

(2022) PhotonGroupingAgg
Input [11]: [party_name#13714, party_id#13715, company_id#13716, deleted_at#13717, county#13728, transaction_type#13729, fc_transaction_date#13730, fc_recorded_date#13731, fcdateupdated#13775, fctransactionid#13734, pdf_id#13735]
Arguments: [party_name#13714, party_id#13715, company_id#13716, deleted_at#13717, county#13728, transaction_type#13729, fc_transaction_date#13730, fc_recorded_date#13731, fcdateupdated#13775, fctransactionid#13734, pdf_id#13735], [party_name#13714, party_id#13715, company_id#13716, deleted_at#13717, county#13728, transaction_type#13729, fc_transaction_date#13730, fc_recorded_date#13731, fcdateupdated#13775, fctransactionid#13734, pdf_id#13735], false

(2023) PhotonShuffleExchangeSink
Input [11]: [party_name#13714, party_id#13715, company_id#13716, deleted_at#13717, county#13728, transaction_type#13729, fc_transaction_date#13730, fc_recorded_date#13731, fcdateupdated#13775, fctransactionid#13734, pdf_id#13735]
Arguments: hashpartitioning(party_id#13715, 200)

(2024) PhotonShuffleMapStage
Input [11]: [party_name#13714, party_id#13715, company_id#13716, deleted_at#13717, county#13728, transaction_type#13729, fc_transaction_date#13730, fc_recorded_date#13731, fcdateupdated#13775, fctransactionid#13734, pdf_id#13735]
Arguments: ENSURE_REQUIREMENTS, [id=#152692]

(2025) PhotonShuffleExchangeSource
Input [11]: [party_name#13714, party_id#13715, company_id#13716, deleted_at#13717, county#13728, transaction_type#13729, fc_transaction_date#13730, fc_recorded_date#13731, fcdateupdated#13775, fctransactionid#13734, pdf_id#13735]

(2026) PhotonRowToColumnar
Input [2]: [party_id#13744, transaction_id#13745]

(2027) PhotonShuffleExchangeSink
Input [2]: [party_id#13744, transaction_id#13745]
Arguments: hashpartitioning(transaction_id#13745, 200)

(2028) PhotonShuffleMapStage
Input [2]: [party_id#13744, transaction_id#13745]
Arguments: ENSURE_REQUIREMENTS, [id=#152697]

(2029) PhotonShuffleExchangeSource
Input [2]: [party_id#13744, transaction_id#13745]

(2030) PhotonRowToColumnar
Input [1]: [fc_transaction_id#13748]

(2031) PhotonShuffleExchangeSink
Input [1]: [fc_transaction_id#13748]
Arguments: hashpartitioning(fc_transaction_id#13748, 200)

(2032) PhotonShuffleMapStage
Input [1]: [fc_transaction_id#13748]
Arguments: ENSURE_REQUIREMENTS, [id=#152702]

(2033) PhotonShuffleExchangeSource
Input [1]: [fc_transaction_id#13748]

(2034) PhotonShuffledHashJoin
Left keys [1]: [transaction_id#13745]
Right keys [1]: [fc_transaction_id#13748]
Join type: LeftSemi
Join condition: None

(2035) PhotonProject
Input [2]: [party_id#13744, transaction_id#13745]
Arguments: [party_id#13744]

(2036) PhotonGroupingAgg
Input [1]: [party_id#13744]
Arguments: [party_id#13744], [party_id#13744], false

(2037) PhotonShuffleExchangeSink
Input [1]: [party_id#13744]
Arguments: hashpartitioning(party_id#13744, 200)

(2038) PhotonShuffleMapStage
Input [1]: [party_id#13744]
Arguments: ENSURE_REQUIREMENTS, [id=#152712]

(2039) PhotonShuffleExchangeSource
Input [1]: [party_id#13744]

(2040) PhotonGroupingAgg
Input [1]: [party_id#13744]
Arguments: [party_id#13744], [party_id#13744], true

(2041) PhotonGroupingAgg
Input [1]: [party_id#13744]
Arguments: [party_id#13744], [party_id#13744], false

(2042) PhotonShuffleExchangeSink
Input [1]: [party_id#13744]
Arguments: hashpartitioning(party_id#13744, 200)

(2043) PhotonRowToColumnar
Input [2]: [party_id#13750, transaction_id#13751]

(2044) PhotonShuffleExchangeSink
Input [2]: [party_id#13750, transaction_id#13751]
Arguments: hashpartitioning(transaction_id#13751, 200)

(2045) PhotonShuffleMapStage

Input [2]: [party_id#13750, transaction_id#13751]
Arguments: ENSURE_REQUIREMENTS, [id=#152721]

(2046) PhotonShuffleExchangeSource
Input [2]: [party_id#13750, transaction_id#13751]

(2047) PhotonRowToColumnar
Input [1]: [fc_transaction_id#13754]

(2048) PhotonShuffleExchangeSink
Input [1]: [fc_transaction_id#13754]
Arguments: hashpartitioning(fc_transaction_id#13754, 200)

(2049) PhotonShuffleMapStage
Input [1]: [fc_transaction_id#13754]
Arguments: ENSURE_REQUIREMENTS, [id=#152726]

(2050) PhotonShuffleExchangeSource
Input [1]: [fc_transaction_id#13754]

(2051) PhotonShuffledHashJoin
Left keys [1]: [transaction_id#13751]
Right keys [1]: [fc_transaction_id#13754]
Join type: LeftSemi
Join condition: None

(2052) PhotonProject
Input [2]: [party_id#13750, transaction_id#13751]
Arguments: [party_id#13750]

(2053) PhotonGroupingAgg
Input [1]: [party_id#13750]
Arguments: [party_id#13750], [party_id#13750], false

(2054) PhotonShuffleExchangeSink
Input [1]: [party_id#13750]
Arguments: hashpartitioning(party_id#13750, 200)

(2055) PhotonShuffleMapStage
Input [1]: [party_id#13750]
Arguments: ENSURE_REQUIREMENTS, [id=#152736]

(2056) PhotonShuffleExchangeSource
Input [1]: [party_id#13750]

(2057) PhotonGroupingAgg
Input [1]: [party_id#13750]
Arguments: [party_id#13750], [party_id#13750], true

(2058) PhotonGroupingAgg
Input [1]: [party_id#13750]
Arguments: [party_id#13750], [party_id#13750], false

(2059) PhotonShuffleExchangeSink
Input [1]: [party_id#13750]
Arguments: hashpartitioning(party_id#13750, 200)

(2060) PhotonUnionShuffleExchangeSink

(2061) PhotonUnionShuffleMapStage
Input [1]: [party_id#13744]
Arguments: ENSURE_REQUIREMENTS, [id=#152749]

(2062) PhotonShuffleExchangeSource
Input [1]: [party_id#13744]

(2063) PhotonShuffledHashJoin
Left keys [1]: [party_id#13715]
Right keys [1]: [party_id#13744]
Join type: LeftSemi
Join condition: None

(2064) PhotonGroupingAgg
Input [11]: [party_name#13714, party_id#13715, company_id#13716, deleted_at#13717, county#13728, transaction_type#13729, fc_transaction_date#13730, fc_recorded_date#13731, fcdateupdated#13775, fctransactionid#13734, pdf_id#13735]
Arguments: [party_name#13714, party_id#13715, company_id#13716, deleted_at#13717, county#13728, transaction_type#13729, fc_transaction_date#13730, fc_recorded_date#13731, fcdateupdated#13775, fctransactionid#13734, pdf_id#13735], [party_name#13714, party_id#13715, company_id#13716, deleted_at#13717, county#13728, transaction_type#13729, fc_transaction_date#13730, fc_recorded_date#13731, fcdateupdated#13775, fctransactionid#13734, pdf_id#13735], false

(2065) PhotonShuffleExchangeSink
Input [11]: [party_name#13714, party_id#13715, company_id#13716, deleted_at#13717, county#13728, transaction_type#13729, fc_transaction_date#13730, fc_recorded_date#13731, fcdateupdated#13775, fctransactionid#13734, pdf_id#13735]

Arguments: hashpartitioning(pdf_id#13735, 200)

(2066) PhotonShuffleMapStage

Input [11]: [party_name#13714, party_id#13715, company_id#13716, deleted_at#13717, county#13728, transaction_type#13729, fc_transaction_date#13730, fc_recorded_date#13731, fcdateupdated#13775, fctransactionid#13734, pdf_id#13735]

Arguments: ENSURE_REQUIREMENTS, [id=#152762]

(2067) PhotonShuffleExchangeSource

Input [11]: [party_name#13714, party_id#13715, company_id#13716, deleted_at#13717, county#13728, transaction_type#13729, fc_transaction_date#13730, fc_recorded_date#13731, fcdateupdated#13775, fctransactionid#13734, pdf_id#13735]

(2068) PhotonRowToColumnar

Input [1]: [pdf_id#13756]

(2069) PhotonShuffleExchangeSink

Input [1]: [pdf_id#13756]

Arguments: hashpartitioning(pdf_id#13756, 200)

(2070) PhotonShuffleMapStage

Input [1]: [pdf_id#13756]

Arguments: ENSURE_REQUIREMENTS, [id=#152767]

(2071) PhotonShuffleExchangeSource

Input [1]: [pdf_id#13756]

(2072) PhotonShuffledHashJoin

Left keys [1]: [pdf_id#13735]

Right keys [1]: [pdf_id#13756]

Join type: LeftOuter

Join condition: None

(2073) PhotonProject

Input [12]: [party_name#13714, party_id#13715, company_id#13716, deleted_at#13717, county#13728, transaction_type#13729, fc_transaction_date#13730, fc_recorded_date#13731, fcdateupdated#13775, fctransactionid#13734, pdf_id#13735, pdf_id#13756]

Arguments: [party_name#13714, party_id#13715, company_id#13716, deleted_at#13717, county#13728, transaction_type#13729, fc_transaction_date#13730, fc_recorded_date#13731, fcdateupdated#13775, fctransactionid#13734, ((isnotnull(pdf_id#13756) AND (transaction_type#13729 = MORTGAGE)) <=> true) AS has_pdf#13809]

(2074) PhotonGroupingAgg

Input [11]: [party_name#13714, party_id#13715, company_id#13716, deleted_at#13717, county#13728, transaction_type#13729, fc_transaction_date#13730, fc_recorded_date#13731, fcdateupdated#13775, fctransactionid#13734, has_pdf#13809]

Arguments: [party_name#13714, party_id#13715, company_id#13716, deleted_at#13717, county#13728, transaction_type#13729, fc_transaction_date#13730, fc_recorded_date#13731, fcdateupdated#13775, fctransactionid#13734, has_pdf#13809], [party_name#13714, party_id#13715, company_id#13716, deleted_at#13717, county#13728, transaction_type#13729, fc_transaction_date#13730, fc_recorded_date#13731, fcdateupdated#13775, fctransactionid#13734, has_pdf#13809], false

(2075) PhotonShuffleExchangeSink

Input [11]: [party_name#13714, party_id#13715, company_id#13716, deleted_at#13717, county#13728, transaction_type#13729, fc_transaction_date#13730, fc_recorded_date#13731, fcdateupdated#13775, fctransactionid#13734, has_pdf#13809]

Arguments: hashpartitioning(party_name#13714, party_id#13715, company_id#13716, deleted_at#13717, county#13728, transaction_type#13729, fc_transaction_date#13730, fc_recorded_date#13731, fcdateupdated#13775, fctransactionid#13734, has_pdf#13809, 200)

(2076) PhotonShuffleMapStage

Input [11]: [party_name#13714, party_id#13715, company_id#13716, deleted_at#13717, county#13728, transaction_type#13729, fc_transaction_date#13730, fc_recorded_date#13731, fcdateupdated#13775, fctransactionid#13734, has_pdf#13809]

Arguments: ENSURE_REQUIREMENTS, [id=#152778]

(2077) PhotonShuffleExchangeSource

Input [11]: [party_name#13714, party_id#13715, company_id#13716, deleted_at#13717, county#13728, transaction_type#13729, fc_transaction_date#13730, fc_recorded_date#13731, fcdateupdated#13775, fctransactionid#13734, has_pdf#13809]

(2078) PhotonGroupingAgg

Input [11]: [party_name#13714, party_id#13715, company_id#13716, deleted_at#13717, county#13728, transaction_type#13729, fc_transaction_date#13730, fc_recorded_date#13731, fcdateupdated#13775, fctransactionid#13734, has_pdf#13809]

Arguments: [party_name#13714, party_id#13715, company_id#13716, deleted_at#13717, county#13728, transaction_type#13729, fc_transaction_date#13730, fc_recorded_date#13731, fcdateupdated#13775, fctransactionid#13734, has_pdf#13809], [party_name#13714, party_id#13715, company_id#13716, deleted_at#13717, county#13728, transaction_type#13729, fc_transaction_date#13730, fc_recorded_date#13731, fcdateupdated#13775, fctransactionid#13734, has_pdf#13809], true

(2079) PhotonGroupingAgg

Input [11]: [party_name#13714, party_id#13715, company_id#13716, deleted_at#13717, county#13728, transaction_type#13729, fc_transaction_date#13730, fc_recorded_date#13731, fcdateupdated#13775, fctransactionid#13734, has_pdf#13809]

Arguments: [party_name#13714, party_id#13715, company_id#13716, deleted_at#13717, county#13728, transaction_type#13729, fc_transaction_date#13730, fc_recorded_date#13731, fcdateupdated#13775, fctransactionid#13734, has_pdf#13809], [party_name#13714, party_id#13715, company_id#13716, deleted_at#13717, county#13728, transaction_type#13729, fc_transaction_date#13730, fc_recorded_date#13731, fcdateupdated#13775, fctransactionid#13734, has_pdf#13809], false

(2080) PhotonShuffleExchangeSink

Input [11]: [party_name#13714, party_id#13715, company_id#13716, deleted_at#13717, county#13728, transaction_type#13729, fc_transaction_date#13730, fc_recorded_date#13731, fcdateupdated#13775, fctransactionid#13734, has_pdf#13809]

Arguments: hashpartitioning(party_name#13714, party_id#13715, company_id#13716, deleted_at#13717, county#13728, transaction_type#13729, fc_transaction_date#13730, fc_recorded_date#13731, fcdateupdated#13775, fctransactionid#13734, has_pdf#13809, 200)

(2081) PhotonUnionShuffleExchangeSink

(2082) PhotonUnionShuffleMapStage
Input [11]: [party_name#13605, party_id#13606, company_id#13607, deleted_at#13608, county#13619, transaction_type#13620, fc_transaction_date#13621, fc_recorded_date#13622, fcdateupdated#13665, fctransactionid#13625, has_pdf#13697]
Arguments: ENSURE_REQUIREMENTS, [id=#152791]

(2083) PhotonShuffleExchangeSource
Input [11]: [party_name#13605, party_id#13606, company_id#13607, deleted_at#13608, county#13619, transaction_type#13620, fc_transaction_date#13621, fc_recorded_date#13622, fcdateupdated#13665, fctransactionid#13625, has_pdf#13697]

(2084) PhotonGroupingAgg
Input [11]: [party_name#13605, party_id#13606, company_id#13607, deleted_at#13608, county#13619, transaction_type#13620, fc_transaction_date#13621, fc_recorded_date#13622, fcdateupdated#13665, fctransactionid#13625, has_pdf#13697]
Arguments: [party_name#13605, party_id#13606, company_id#13607, deleted_at#13608, county#13619, transaction_type#13620, fc_transaction_date#13621, fc_recorded_date#13622, fcdateupdated#13665, fctransactionid#13625, has_pdf#13697], [party_id#13606, fc_transaction_date#13621, fc_recorded_date#13622, fctransactionid#13625], true

(2085) PhotonShuffleExchangeSink
Input [4]: [party_id#13606, fc_transaction_date#13621, fc_recorded_date#13622, fctransactionid#13625]
Arguments: hashpartitioning(party_id#13606, 200)

(2086) PhotonShuffleMapStage
Input [4]: [party_id#13606, fc_transaction_date#13621, fc_recorded_date#13622, fctransactionid#13625]
Arguments: ENSURE_REQUIREMENTS, [id=#152797]

(2087) PhotonShuffleExchangeSource
Input [4]: [party_id#13606, fc_transaction_date#13621, fc_recorded_date#13622, fctransactionid#13625]

(2088) PhotonSort
Input [4]: [party_id#13606, fc_transaction_date#13621, fc_recorded_date#13622, fctransactionid#13625]
Arguments: [party_id#13606 ASC NULLS FIRST, fc_recorded_date#13622 DESC NULLS LAST, fc_transaction_date#13621 DESC NULLS LAST]

(2089) PhotonWindow
Input [4]: [party_id#13606, fc_transaction_date#13621, fc_recorded_date#13622, fctransactionid#13625]
Arguments: [party_id#13606, fc_recorded_date#13622, fctransactionid#13625, row_number() window specification (party_id#13606, fc_recorded_date#13622 DESC NULLS LAST, fc_transaction_date#13621 DESC NULLS LAST, specified window frame (RowFrame, unbounded preceding \$(), current row \$())) AS rn#13839]

(2090) PhotonFilter
Input [4]: [party_id#13606, fc_recorded_date#13622, fctransactionid#13625, rn#13839]
Arguments: (rn#13839 > 1)

(2091) PhotonProject
Input [4]: [party_id#13606, fc_recorded_date#13622, fctransactionid#13625, rn#13839]
Arguments: [party_id#13606, fc_recorded_date#13622, fctransactionid#13625]

(2092) PhotonShuffleExchangeSink
Input [3]: [party_id#13606, fc_recorded_date#13622, fctransactionid#13625]
Arguments: hashpartitioning(fctransactionid#13625, 200)

(2093) PhotonShuffleMapStage
Input [3]: [party_id#13606, fc_recorded_date#13622, fctransactionid#13625]
Arguments: ENSURE_REQUIREMENTS, [id=#152809]

(2094) PhotonShuffleExchangeSource
Input [3]: [party_id#13606, fc_recorded_date#13622, fctransactionid#13625]

(2095) PhotonRowToColumnar
Input [2]: [fc_cross_party#13857, fctransactionid#13859]

(2096) PhotonShuffleExchangeSink
Input [2]: [fc_cross_party#13857, fctransactionid#13859]
Arguments: hashpartitioning(fctransactionid#13859, 200)

(2097) PhotonShuffleMapStage
Input [2]: [fc_cross_party#13857, fctransactionid#13859]
Arguments: ENSURE_REQUIREMENTS, [id=#152814]

(2098) PhotonShuffleExchangeSource
Input [2]: [fc_cross_party#13857, fctransactionid#13859]

(2099) PhotonShuffledHashJoin
Left keys [1]: [fctransactionid#13625]
Right keys [1]: [fctransactionid#13859]
Join type: Inner
Join condition: None

(2100) PhotonProject
Input [5]: [party_id#13606, fc_recorded_date#13622, fctransactionid#13625, fc_cross_party#13857, fctransactionid#13859]
Arguments: [party_id#13606, fc_recorded_date#13622, fc_cross_party#13857]

(2101) PhotonGroupingAgg

Input [3]: [party_id#13606, fc_recorded_date#13622, fc_cross_party#13857]
Arguments: [party_id#13606, fc_cross_party#13857], [partial_max(fc_recorded_date#13622) AS max#14259], [max#14258], [party_id#13606, fc_cross_party#13857, max#14259], false

(2102) PhotonShuffleExchangeSink
Input [3]: [party_id#13606, fc_cross_party#13857, max#14259]
Arguments: hashpartitioning(party_id#13606, fc_cross_party#13857, 200)

(2103) PhotonShuffleMapStage
Input [3]: [party_id#13606, fc_cross_party#13857, max#14259]
Arguments: ENSURE_REQUIREMENTS, [id=#152833]

(2104) PhotonShuffleExchangeSource
Input [3]: [party_id#13606, fc_cross_party#13857, max#14259]

(2105) PhotonGroupingAgg
Input [3]: [party_id#13606, fc_cross_party#13857, max#14259]
Arguments: [party_id#13606, fc_cross_party#13857], [finalmerge_max(merge max#14259) AS max(fc_recorded_date#13622)#13870], [max(fc_recorded_date#13622)#13870], [party_id#13606, fc_cross_party#13857, max(fc_recorded_date#13622)#13870 AS fc_recorded_date#13869], true

(2106) PhotonShuffleExchangeSink
Input [3]: [party_id#13606, fc_cross_party#13857, fc_recorded_date#13869]
Arguments: hashpartitioning(party_id#13606, 200)

(2107) PhotonShuffleMapStage
Input [3]: [party_id#13606, fc_cross_party#13857, fc_recorded_date#13869]
Arguments: ENSURE_REQUIREMENTS, [id=#152844]

(2108) PhotonShuffleExchangeSource
Input [3]: [party_id#13606, fc_cross_party#13857, fc_recorded_date#13869]

(2109) PhotonSort
Input [3]: [party_id#13606, fc_cross_party#13857, fc_recorded_date#13869]
Arguments: [party_id#13606 ASC NULLS FIRST, fc_recorded_date#13869 DESC NULLS LAST]

(2110) PhotonResultStage
Input [3]: [party_id#13606, fc_cross_party#13857, fc_recorded_date#13869]

(2111) ColumnarToRow
Input [3]: [party_id#13606, fc_cross_party#13857, fc_recorded_date#13869]

(2112) Window
Input [3]: [party_id#13606, fc_cross_party#13857, fc_recorded_date#13869]
Arguments: [party_id#13606, collect_list(fc_cross_party#13857, 0, 0) window specification (party_id#13606, fc_recorded_date#13869 DESC NULLS LAST, specified window frame (RangeFrame, unbounded preceding(), current row())) AS ordered_concat#13875], [party_id#13606], [fc_recorded_date#13869 DESC NULLS LAST]

(2113) HashAggregate
Input [2]: [party_id#13606, ordered_concat#13875]
Keys [2]: [party_id#13606, ordered_concat#13875]
Functions: []
Aggregate Attributes: []
Results [2]: [party_id#13606, ordered_concat#13875]

(2114) Project
Output [2]: [party_id#13606, ordered_concat#13875]
Input [2]: [party_id#13606, ordered_concat#13875]

(2115) ObjectHashAggregate
Input [2]: [party_id#13606, ordered_concat#13875]
Keys [1]: [party_id#13606]
Functions [1]: [collect_list(ordered_concat#13875, 0, 0)]
Aggregate Attributes [1]: [collect_list(ordered_concat#13875, 0, 0)#13882]
Results [2]: [party_id#13606, substring(concat_ws(, , flatten(collect_list(ordered_concat#13875, 0, 0)#13882)), 1, 500) AS recent_lenders#13886]

(2116) Sort
Input [2]: [party_id#13606, recent_lenders#13886]
Arguments: [party_id#13606 ASC NULLS FIRST], false, 0

(2117) SortMergeJoin
Left keys [1]: [party_id#12418]
Right keys [1]: [party_id#13606]
Join type: LeftOuter
Join condition: None

(2118) Project
Output [24]: [party_name#12417, party_id#12418, company_id#12419, deleted_at#12648, has_pdf#12649, Mortgage Transactions#12650L, Deed Transactions#12651L, Satisfaction of Mortgage Transactions#12652L, Assignment of Mortgage Transactions#12653L, lis_pendens_transactions#12654L, judgment_transactions#12655L, loan_modification_transactions#12656L, Most Recent Transaction#12879, fcdateupdated#12880, Last Purchase Date#12994, Last Sale Date#13104, Transactions as Seller#13217L, Transactions as Borrower#13218L, Transactions as Buyer#13336L, Transactions as Lender#13337L, Last Lender Used#13602, Last_Mortgage_Date#13603, last_county#13604,

recent_lenders#13886]

Input [25]: [party_name#12417, party_id#12418, company_id#12419, deleted_at#12648, has_pdf#12649, Mortgage Transactions#12650L, Deed Transactions#12651L, Satisfaction of Mortgage Transactions#12652L, Assignment of Mortgage Transactions#12653L, lis_pendens_transactions#12654L, judgment_transactions#12655L, loan_modification_transactions#12656L, Most Recent Transaction#12879, fcdateupdated#12880, Last Purchase Date#12994, Last Sale Date#13104, Transactions as Seller#13217L, Transactions as Borrower#13218L, Transactions as Buyer#13336L, Transactions as Lender#13337L, Last Lender Used#13602, Last_Mortgage_Date#13603, last_county#13604, party_id#13606, recent_lenders#13886]

(2119) LocalLimit

Input [24]: [party_name#12417, party_id#12418, company_id#12419, deleted_at#12648, has_pdf#12649, Mortgage Transactions#12650L, Deed Transactions#12651L, Satisfaction of Mortgage Transactions#12652L, Assignment of Mortgage Transactions#12653L, lis_pendens_transactions#12654L, judgment_transactions#12655L, loan_modification_transactions#12656L, Most Recent Transaction#12879, fcdateupdated#12880, Last Purchase Date#12994, Last Sale Date#13104, Transactions as Seller#13217L, Transactions as Borrower#13218L, Transactions as Buyer#13336L, Transactions as Lender#13337L, Last Lender Used#13602, Last_Mortgage_Date#13603, last_county#13604, recent_lenders#13886]

Arguments: 21

(2120) Sort

Input [24]: [party_name#12417, party_id#12418, company_id#12419, deleted_at#12648, has_pdf#12649, Mortgage Transactions#12650L, Deed Transactions#12651L, Satisfaction of Mortgage Transactions#12652L, Assignment of Mortgage Transactions#12653L, lis_pendens_transactions#12654L, judgment_transactions#12655L, loan_modification_transactions#12656L, Most Recent Transaction#12879, fcdateupdated#12880, Last Purchase Date#12994, Last Sale Date#13104, Transactions as Seller#13217L, Transactions as Borrower#13218L, Transactions as Buyer#13336L, Transactions as Lender#13337L, Last Lender Used#13602, Last_Mortgage_Date#13603, last_county#13604, recent_lenders#13886]

Arguments: [party_id#12418 ASC NULLS FIRST], false, 0

(2121) PhotonRowToColumnar

Input [5]: [party_name#11868, party_id#11869, company_id#11870, deleted_at#11871, updated_at#11872]

(2122) PhotonShuffleExchangeSink

Input [5]: [party_name#11868, party_id#11869, company_id#11870, deleted_at#11871, updated_at#11872]

Arguments: hashpartitioning(party_id#11869, 200)

(2123) PhotonShuffleMapStage

Input [5]: [party_name#11868, party_id#11869, company_id#11870, deleted_at#11871, updated_at#11872]

Arguments: ENSURE_REQUIREMENTS, [id=#152859]

(2124) PhotonShuffleExchangeSource

Input [5]: [party_name#11868, party_id#11869, company_id#11870, deleted_at#11871, updated_at#11872]

(2125) PhotonRowToColumnar

Input [2]: [party_id#11878, transaction_id#11879]

(2126) PhotonShuffleExchangeSink

Input [2]: [party_id#11878, transaction_id#11879]

Arguments: hashpartitioning(party_id#11878, 200)

(2127) PhotonShuffleMapStage

Input [2]: [party_id#11878, transaction_id#11879]

Arguments: ENSURE_REQUIREMENTS, [id=#152864]

(2128) PhotonShuffleExchangeSource

Input [2]: [party_id#11878, transaction_id#11879]

(2129) PhotonShuffledHashJoin

Left keys [1]: [party_id#11869]

Right keys [1]: [party_id#11878]

Join type: Inner

Join condition: None

(2130) PhotonProject

Input [7]: [party_name#11868, party_id#11869, company_id#11870, deleted_at#11871, updated_at#11872, party_id#11878, transaction_id#11879]

Arguments: [party_id#11869, party_name#11868, company_id#11870, deleted_at#11871, updated_at#11872, transaction_id#11879]

(2131) PhotonGroupingAgg

Input [6]: [party_id#11869, party_name#11868, company_id#11870, deleted_at#11871, updated_at#11872, transaction_id#11879]

Arguments: [party_name#11868, party_id#11869, company_id#11870, deleted_at#11871, transaction_id#11879, updated_at#11872], [party_name#11868, party_id#11869, company_id#11870, deleted_at#11871, transaction_id#11879, updated_at#11872], false

(2132) PhotonShuffleExchangeSink

Input [6]: [party_name#11868, party_id#11869, company_id#11870, deleted_at#11871, transaction_id#11879, updated_at#11872]

Arguments: hashpartitioning(transaction_id#11879, 200)

(2133) PhotonShuffleMapStage

Input [6]: [party_name#11868, party_id#11869, company_id#11870, deleted_at#11871, transaction_id#11879, updated_at#11872]

Arguments: ENSURE_REQUIREMENTS, [id=#152874]

(2134) PhotonShuffleExchangeSource

Input [6]: [party_name#11868, party_id#11869, company_id#11870, deleted_at#11871, transaction_id#11879, updated_at#11872]

(2135) PhotonRowToColumnar

Input [7]: [county#11882, transaction_type#11883, fc_transaction_date#11884, fc_recorded_date#11885, fcdateupdated#11887, fctransactionid#11888, pdf_id#11889]

(2136) PhotonShuffleExchangeSink
Input [7]: [county#11882, transaction_type#11883, fc_transaction_date#11884, fc_recorded_date#11885, fcdateupdated#11887, fctransactionid#11888, pdf_id#11889]
Arguments: hashpartitioning(fctransactionid#11888, 200)

(2137) PhotonShuffleMapStage
Input [7]: [county#11882, transaction_type#11883, fc_transaction_date#11884, fc_recorded_date#11885, fcdateupdated#11887, fctransactionid#11888, pdf_id#11889]
Arguments: ENSURE_REQUIREMENTS, [id=#152879]

(2138) PhotonShuffleExchangeSource
Input [7]: [county#11882, transaction_type#11883, fc_transaction_date#11884, fc_recorded_date#11885, fcdateupdated#11887, fctransactionid#11888, pdf_id#11889]

(2139) PhotonShuffledHashJoin
Left keys [1]: [transaction_id#11879]
Right keys [1]: [fctransactionid#11888]
Join type: Inner
Join condition: None

(2140) PhotonProject
Input [13]: [party_name#11868, party_id#11869, company_id#11870, deleted_at#11871, transaction_id#11879, updated_at#11872, county#11882, transaction_type#11883, fc_transaction_date#11884, fc_recorded_date#11885, fcdateupdated#11887, fctransactionid#11888, pdf_id#11889]
Arguments: [party_name#11868, party_id#11869, company_id#11870, deleted_at#11871, county#11882, transaction_type#11883, fc_transaction_date#11884, fc_recorded_date#11885, greatest(fcdateupdated#11887, updated_at#11872) AS fcdateupdated#11928, fctransactionid#11888, pdf_id#11889]

(2141) PhotonGroupingAgg
Input [11]: [party_name#11868, party_id#11869, company_id#11870, deleted_at#11871, county#11882, transaction_type#11883, fc_transaction_date#11884, fc_recorded_date#11885, fcdateupdated#11928, fctransactionid#11888, pdf_id#11889]
Arguments: [party_name#11868, party_id#11869, company_id#11870, deleted_at#11871, county#11882, transaction_type#11883, fc_transaction_date#11884, fc_recorded_date#11885, fcdateupdated#11928, fctransactionid#11888, pdf_id#11889], [party_name#11868, party_id#11869, company_id#11870, deleted_at#11871, county#11882, transaction_type#11883, fc_transaction_date#11884, fc_recorded_date#11885, fcdateupdated#11928, fctransactionid#11888, pdf_id#11889], false

(2142) PhotonShuffleExchangeSink
Input [11]: [party_name#11868, party_id#11869, company_id#11870, deleted_at#11871, county#11882, transaction_type#11883, fc_transaction_date#11884, fc_recorded_date#11885, fcdateupdated#11928, fctransactionid#11888, pdf_id#11889]
Arguments: hashpartitioning(party_id#11869, 200)

(2143) PhotonShuffleMapStage
Input [11]: [party_name#11868, party_id#11869, company_id#11870, deleted_at#11871, county#11882, transaction_type#11883, fc_transaction_date#11884, fc_recorded_date#11885, fcdateupdated#11928, fctransactionid#11888, pdf_id#11889]
Arguments: ENSURE_REQUIREMENTS, [id=#152890]

(2144) PhotonShuffleExchangeSource
Input [11]: [party_name#11868, party_id#11869, company_id#11870, deleted_at#11871, county#11882, transaction_type#11883, fc_transaction_date#11884, fc_recorded_date#11885, fcdateupdated#11928, fctransactionid#11888, pdf_id#11889]

(2145) PhotonRowToColumnar
Input [2]: [party_id#11898, transaction_id#11899]

(2146) PhotonShuffleExchangeSink
Input [2]: [party_id#11898, transaction_id#11899]
Arguments: hashpartitioning(transaction_id#11899, 200)

(2147) PhotonShuffleMapStage
Input [2]: [party_id#11898, transaction_id#11899]
Arguments: ENSURE_REQUIREMENTS, [id=#152895]

(2148) PhotonShuffleExchangeSource
Input [2]: [party_id#11898, transaction_id#11899]

(2149) PhotonRowToColumnar
Input [1]: [fc_transaction_id#11902]

(2150) PhotonShuffleExchangeSink
Input [1]: [fc_transaction_id#11902]
Arguments: hashpartitioning(fc_transaction_id#11902, 200)

(2151) PhotonShuffleMapStage
Input [1]: [fc_transaction_id#11902]
Arguments: ENSURE_REQUIREMENTS, [id=#152900]

(2152) PhotonShuffleExchangeSource
Input [1]: [fc_transaction_id#11902]

(2153) PhotonShuffledHashJoin
Left keys [1]: [transaction_id#11899]
Right keys [1]: [fc_transaction_id#11902]
Join type: LeftSemi
Join condition: None

(2154) PhotonProject
Input [2]: [party_id#11898, transaction_id#11899]
Arguments: [party_id#11898]

(2155) PhotonGroupingAgg
Input [1]: [party_id#11898]
Arguments: [party_id#11898], [party_id#11898], false

(2156) PhotonShuffleExchangeSink
Input [1]: [party_id#11898]
Arguments: hashpartitioning(party_id#11898, 200)

(2157) PhotonShuffleMapStage
Input [1]: [party_id#11898]
Arguments: ENSURE_REQUIREMENTS, [id=#152910]

(2158) PhotonShuffleExchangeSource
Input [1]: [party_id#11898]

(2159) PhotonGroupingAgg
Input [1]: [party_id#11898]
Arguments: [party_id#11898], [party_id#11898], true

(2160) PhotonGroupingAgg
Input [1]: [party_id#11898]
Arguments: [party_id#11898], [party_id#11898], false

(2161) PhotonShuffleExchangeSink
Input [1]: [party_id#11898]
Arguments: hashpartitioning(party_id#11898, 200)

(2162) PhotonRowToColumnar
Input [2]: [party_id#11904, transaction_id#11905]

(2163) PhotonShuffleExchangeSink
Input [2]: [party_id#11904, transaction_id#11905]
Arguments: hashpartitioning(transaction_id#11905, 200)

(2164) PhotonShuffleMapStage
Input [2]: [party_id#11904, transaction_id#11905]
Arguments: ENSURE_REQUIREMENTS, [id=#152919]

(2165) PhotonShuffleExchangeSource
Input [2]: [party_id#11904, transaction_id#11905]

(2166) PhotonRowToColumnar
Input [1]: [fc_transaction_id#11908]

(2167) PhotonShuffleExchangeSink
Input [1]: [fc_transaction_id#11908]
Arguments: hashpartitioning(fc_transaction_id#11908, 200)

(2168) PhotonShuffleMapStage
Input [1]: [fc_transaction_id#11908]
Arguments: ENSURE_REQUIREMENTS, [id=#152924]

(2169) PhotonShuffleExchangeSource
Input [1]: [fc_transaction_id#11908]

(2170) PhotonShuffledHashJoin
Left keys [1]: [transaction_id#11905]
Right keys [1]: [fc_transaction_id#11908]
Join type: LeftSemi
Join condition: None

(2171) PhotonProject
Input [2]: [party_id#11904, transaction_id#11905]
Arguments: [party_id#11904]

(2172) PhotonGroupingAgg
Input [1]: [party_id#11904]
Arguments: [party_id#11904], [party_id#11904], false

(2173) PhotonShuffleExchangeSink
Input [1]: [party_id#11904]
Arguments: hashpartitioning(party_id#11904, 200)

(2174) PhotonShuffleMapStage
Input [1]: [party_id#11904]
Arguments: ENSURE_REQUIREMENTS, [id=#152934]

(2175) PhotonShuffleExchangeSource

Input [1]: [party_id#11904]

(2176) PhotonGroupingAgg

Input [1]: [party_id#11904]

Arguments: [party_id#11904], [party_id#11904], true

(2177) PhotonGroupingAgg

Input [1]: [party_id#11904]

Arguments: [party_id#11904], [party_id#11904], false

(2178) PhotonShuffleExchangeSink

Input [1]: [party_id#11904]

Arguments: hashpartitioning(party_id#11904, 200)

(2179) PhotonUnionShuffleExchangeSink

(2180) PhotonUnionShuffleMapStage

Input [1]: [party_id#11898]

Arguments: ENSURE_REQUIREMENTS, [id=#152947]

(2181) PhotonShuffleExchangeSource

Input [1]: [party_id#11898]

(2182) PhotonShuffledHashJoin

Left keys [1]: [party_id#11869]

Right keys [1]: [party_id#11898]

Join type: LeftSemi

Join condition: None

(2183) PhotonGroupingAgg

Input [11]: [party_name#11868, party_id#11869, company_id#11870, deleted_at#11871, county#11882, transaction_type#11883, fc_transaction_date#11884, fc_recorded_date#11885, fcdateupdated#11928, fctransactionid#11888, pdf_id#11889]

Arguments: [party_name#11868, party_id#11869, company_id#11870, deleted_at#11871, county#11882, transaction_type#11883, fc_transaction_date#11884, fc_recorded_date#11885, fcdateupdated#11928, fctransactionid#11888, pdf_id#11889], [party_name#11868, party_id#11869, company_id#11870, deleted_at#11871, county#11882, transaction_type#11883, fc_transaction_date#11884, fc_recorded_date#11885, fcdateupdated#11928, fctransactionid#11888, pdf_id#11889], false

(2184) PhotonShuffleExchangeSink

Input [11]: [party_name#11868, party_id#11869, company_id#11870, deleted_at#11871, county#11882, transaction_type#11883, fc_transaction_date#11884, fc_recorded_date#11885, fcdateupdated#11928, fctransactionid#11888, pdf_id#11889]

Arguments: hashpartitioning(pdf_id#11889, 200)

(2185) PhotonShuffleMapStage

Input [11]: [party_name#11868, party_id#11869, company_id#11870, deleted_at#11871, county#11882, transaction_type#11883, fc_transaction_date#11884, fc_recorded_date#11885, fcdateupdated#11928, fctransactionid#11888, pdf_id#11889]

Arguments: ENSURE_REQUIREMENTS, [id=#152960]

(2186) PhotonShuffleExchangeSource

Input [11]: [party_name#11868, party_id#11869, company_id#11870, deleted_at#11871, county#11882, transaction_type#11883, fc_transaction_date#11884, fc_recorded_date#11885, fcdateupdated#11928, fctransactionid#11888, pdf_id#11889]

(2187) PhotonRowToColumnar

Input [1]: [pdf_id#11910]

(2188) PhotonShuffleExchangeSink

Input [1]: [pdf_id#11910]

Arguments: hashpartitioning(pdf_id#11910, 200)

(2189) PhotonShuffleMapStage

Input [1]: [pdf_id#11910]

Arguments: ENSURE_REQUIREMENTS, [id=#152965]

(2190) PhotonShuffleExchangeSource

Input [1]: [pdf_id#11910]

(2191) PhotonShuffledHashJoin

Left keys [1]: [pdf_id#11889]

Right keys [1]: [pdf_id#11910]

Join type: LeftOuter

Join condition: None

(2192) PhotonProject

Input [12]: [party_name#11868, party_id#11869, company_id#11870, deleted_at#11871, county#11882, transaction_type#11883, fc_transaction_date#11884, fc_recorded_date#11885, fcdateupdated#11928, fctransactionid#11888, pdf_id#11889, pdf_id#11910]

Arguments: [party_name#11868, party_id#11869, company_id#11870, deleted_at#11871, county#11882, transaction_type#11883, fc_transaction_date#11884, fc_recorded_date#11885, fcdateupdated#11928, fctransactionid#11888, ((isnotnull(pdf_id#11910) AND (transaction_type#11883 = MORTGAGE)) <=> true) AS has_pdf#11960]

(2193) PhotonGroupingAgg

Input [11]: [party_name#11868, party_id#11869, company_id#11870, deleted_at#11871, county#11882, transaction_type#11883, fc_transaction_date#11884, fc_recorded_date#11885, fcdateupdated#11928, fctransactionid#11888, has_pdf#11960]

Arguments: [party_name#11868, party_id#11869, company_id#11870, deleted_at#11871, county#11882, transaction_type#11883, fc_transaction_date#11884, fc_recorded_date#11885, fcdateupdated#11928, fctransactionid#11888, has_pdf#11960], [party_name#11868,

party_id#11869, company_id#11870, deleted_at#11871, county#11882, transaction_type#11883, fc_transaction_date#11884, fc_recorded_date#11885, fcdateupdated#11928, fctransactionid#11888, has_pdf#11960], false

(2194) PhotonShuffleExchangeSink

Input [11]: [party_name#11868, party_id#11869, company_id#11870, deleted_at#11871, county#11882, transaction_type#11883, fc_transaction_date#11884, fc_recorded_date#11885, fcdateupdated#11928, fctransactionid#11888, has_pdf#11960]

Arguments: hashpartitioning(party_name#11868, party_id#11869, company_id#11870, deleted_at#11871, county#11882, transaction_type#11883, fc_transaction_date#11884, fc_recorded_date#11885, fcdateupdated#11928, fctransactionid#11888, has_pdf#11960, 200)

(2195) PhotonShuffleMapStage

Input [11]: [party_name#11868, party_id#11869, company_id#11870, deleted_at#11871, county#11882, transaction_type#11883, fc_transaction_date#11884, fc_recorded_date#11885, fcdateupdated#11928, fctransactionid#11888, has_pdf#11960]

Arguments: ENSURE_REQUIREMENTS, [id=#152976]

(2196) PhotonShuffleExchangeSource

Input [11]: [party_name#11868, party_id#11869, company_id#11870, deleted_at#11871, county#11882, transaction_type#11883, fc_transaction_date#11884, fc_recorded_date#11885, fcdateupdated#11928, fctransactionid#11888, has_pdf#11960]

(2197) PhotonGroupingAgg

Input [11]: [party_name#11868, party_id#11869, company_id#11870, deleted_at#11871, county#11882, transaction_type#11883, fc_transaction_date#11884, fc_recorded_date#11885, fcdateupdated#11928, fctransactionid#11888, has_pdf#11960]

Arguments: [party_name#11868, party_id#11869, company_id#11870, deleted_at#11871, county#11882, transaction_type#11883, fc_transaction_date#11884, fc_recorded_date#11885, fcdateupdated#11928, fctransactionid#11888, has_pdf#11960], [party_id#11869, county#11882, fc_recorded_date#11885], true

(2198) PhotonGroupingAgg

Input [3]: [party_id#11869, county#11882, fc_recorded_date#11885]

Arguments: [party_id#11869, county#11882], [partial_max(fc_recorded_date#11885) AS max#14269], [max#14268], [party_id#11869, county#11882, max#14269], false

(2199) PhotonShuffleExchangeSink

Input [3]: [party_id#11869, county#11882, max#14269]

Arguments: hashpartitioning(party_id#11869, county#11882, 200)

(2200) PhotonRowToColumnar

Input [5]: [party_name#11977, party_id#11978, company_id#11979, deleted_at#11980, updated_at#11981]

(2201) PhotonShuffleExchangeSink

Input [5]: [party_name#11977, party_id#11978, company_id#11979, deleted_at#11980, updated_at#11981]

Arguments: hashpartitioning(party_id#11978, 200)

(2202) PhotonShuffleMapStage

Input [5]: [party_name#11977, party_id#11978, company_id#11979, deleted_at#11980, updated_at#11981]

Arguments: ENSURE_REQUIREMENTS, [id=#152990]

(2203) PhotonShuffleExchangeSource

Input [5]: [party_name#11977, party_id#11978, company_id#11979, deleted_at#11980, updated_at#11981]

(2204) PhotonRowToColumnar

Input [2]: [party_id#11987, transaction_id#11988]

(2205) PhotonShuffleExchangeSink

Input [2]: [party_id#11987, transaction_id#11988]

Arguments: hashpartitioning(party_id#11987, 200)

(2206) PhotonShuffleMapStage

Input [2]: [party_id#11987, transaction_id#11988]

Arguments: ENSURE_REQUIREMENTS, [id=#152995]

(2207) PhotonShuffleExchangeSource

Input [2]: [party_id#11987, transaction_id#11988]

(2208) PhotonShuffledHashJoin

Left keys [1]: [party_id#11978]

Right keys [1]: [party_id#11987]

Join type: Inner

Join condition: None

(2209) PhotonProject

Input [7]: [party_name#11977, party_id#11978, company_id#11979, deleted_at#11980, updated_at#11981, party_id#11987, transaction_id#11988]

Arguments: [party_id#11978, party_name#11977, company_id#11979, deleted_at#11980, updated_at#11981, transaction_id#11988]

(2210) PhotonGroupingAgg

Input [6]: [party_id#11978, party_name#11977, company_id#11979, deleted_at#11980, updated_at#11981, transaction_id#11988]

Arguments: [party_name#11977, party_id#11978, company_id#11979, deleted_at#11980, transaction_id#11988, updated_at#11981], [party_name#11977, party_id#11978, company_id#11979, deleted_at#11980, transaction_id#11988, updated_at#11981], false

(2211) PhotonShuffleExchangeSink

Input [6]: [party_name#11977, party_id#11978, company_id#11979, deleted_at#11980, transaction_id#11988, updated_at#11981]

Arguments: hashpartitioning(transaction_id#11988, 200)

(2212) PhotonShuffleMapStage

Input [6]: [party_name#11977, party_id#11978, company_id#11979, deleted_at#11980, transaction_id#11988, updated_at#11981]

Arguments: ENSURE_REQUIREMENTS, [id=#153005]

(2213) PhotonShuffleExchangeSource

Input [6]: [party_name#11977, party_id#11978, company_id#11979, deleted_at#11980, transaction_id#11988, updated_at#11981]

(2214) PhotonRowToColumnar

Input [7]: [county#11991, transaction_type#11992, fc_transaction_date#11993, fc_recorded_date#11994, fcdateupdated#11996, fctransactionid#11997, pdf_id#11998]

(2215) PhotonShuffleExchangeSink

Input [7]: [county#11991, transaction_type#11992, fc_transaction_date#11993, fc_recorded_date#11994, fcdateupdated#11996, fctransactionid#11997, pdf_id#11998]

Arguments: hashpartitioning(fctransactionid#11997, 200)

(2216) PhotonShuffleMapStage

Input [7]: [county#11991, transaction_type#11992, fc_transaction_date#11993, fc_recorded_date#11994, fcdateupdated#11996, fctransactionid#11997, pdf_id#11998]

Arguments: ENSURE_REQUIREMENTS, [id=#153010]

(2217) PhotonShuffleExchangeSource

Input [7]: [county#11991, transaction_type#11992, fc_transaction_date#11993, fc_recorded_date#11994, fcdateupdated#11996, fctransactionid#11997, pdf_id#11998]

(2218) PhotonShuffledHashJoin

Left keys [1]: [transaction_id#11988]

Right keys [1]: [fctransactionid#11997]

Join type: Inner

Join condition: None

(2219) PhotonProject

Input [13]: [party_name#11977, party_id#11978, company_id#11979, deleted_at#11980, transaction_id#11988, updated_at#11981, county#11991, transaction_type#11992, fc_transaction_date#11993, fc_recorded_date#11994, fcdateupdated#11996, fctransactionid#11997, pdf_id#11998]

Arguments: [party_name#11977, party_id#11978, company_id#11979, deleted_at#11980, county#11991, transaction_type#11992, fc_transaction_date#11993, fc_recorded_date#11994, greatest(fcdateupdated#11996, updated_at#11981) AS fcdateupdated#12038, fctransactionid#11997, pdf_id#11998]

(2220) PhotonGroupingAgg

Input [11]: [party_name#11977, party_id#11978, company_id#11979, deleted_at#11980, county#11991, transaction_type#11992, fc_transaction_date#11993, fc_recorded_date#11994, fcdateupdated#12038, fctransactionid#11997, pdf_id#11998]

Arguments: [party_name#11977, party_id#11978, company_id#11979, deleted_at#11980, county#11991, transaction_type#11992, fc_transaction_date#11993, fc_recorded_date#11994, fcdateupdated#12038, fctransactionid#11997, pdf_id#11998], [party_name#11977, party_id#11978, company_id#11979, deleted_at#11980, county#11991, transaction_type#11992, fc_transaction_date#11993, fc_recorded_date#11994, fcdateupdated#12038, fctransactionid#11997, pdf_id#11998], false

(2221) PhotonShuffleExchangeSink

Input [11]: [party_name#11977, party_id#11978, company_id#11979, deleted_at#11980, county#11991, transaction_type#11992, fc_transaction_date#11993, fc_recorded_date#11994, fcdateupdated#12038, fctransactionid#11997, pdf_id#11998]

Arguments: hashpartitioning(party_id#11978, 200)

(2222) PhotonShuffleMapStage

Input [11]: [party_name#11977, party_id#11978, company_id#11979, deleted_at#11980, county#11991, transaction_type#11992, fc_transaction_date#11993, fc_recorded_date#11994, fcdateupdated#12038, fctransactionid#11997, pdf_id#11998]

Arguments: ENSURE_REQUIREMENTS, [id=#153021]

(2223) PhotonShuffleExchangeSource

Input [11]: [party_name#11977, party_id#11978, company_id#11979, deleted_at#11980, county#11991, transaction_type#11992, fc_transaction_date#11993, fc_recorded_date#11994, fcdateupdated#12038, fctransactionid#11997, pdf_id#11998]

(2224) PhotonRowToColumnar

Input [2]: [party_id#12007, transaction_id#12008]

(2225) PhotonShuffleExchangeSink

Input [2]: [party_id#12007, transaction_id#12008]

Arguments: hashpartitioning(transaction_id#12008, 200)

(2226) PhotonShuffleMapStage

Input [2]: [party_id#12007, transaction_id#12008]

Arguments: ENSURE_REQUIREMENTS, [id=#153026]

(2227) PhotonShuffleExchangeSource

Input [2]: [party_id#12007, transaction_id#12008]

(2228) PhotonRowToColumnar

Input [1]: [fc_transaction_id#12011]

(2229) PhotonShuffleExchangeSink

Input [1]: [fc_transaction_id#12011]

Arguments: hashpartitioning(fc_transaction_id#12011, 200)

(2230) PhotonShuffleMapStage

Input [1]: [fc_transaction_id#12011]

Arguments: ENSURE_REQUIREMENTS, [id=#153031]

(2231) PhotonShuffleExchangeSource
Input [1]: [fc_transaction_id#12011]

(2232) PhotonShuffledHashJoin
Left keys [1]: [transaction_id#12008]
Right keys [1]: [fc_transaction_id#12011]
Join type: LeftSemi
Join condition: None

(2233) PhotonProject
Input [2]: [party_id#12007, transaction_id#12008]
Arguments: [party_id#12007]

(2234) PhotonGroupingAgg
Input [1]: [party_id#12007]
Arguments: [party_id#12007], [party_id#12007], false

(2235) PhotonShuffleExchangeSink
Input [1]: [party_id#12007]
Arguments: hashpartitioning(party_id#12007, 200)

(2236) PhotonShuffleMapStage
Input [1]: [party_id#12007]
Arguments: ENSURE_REQUIREMENTS, [id=#153041]

(2237) PhotonShuffleExchangeSource
Input [1]: [party_id#12007]

(2238) PhotonGroupingAgg
Input [1]: [party_id#12007]
Arguments: [party_id#12007], [party_id#12007], true

(2239) PhotonGroupingAgg
Input [1]: [party_id#12007]
Arguments: [party_id#12007], [party_id#12007], false

(2240) PhotonShuffleExchangeSink
Input [1]: [party_id#12007]
Arguments: hashpartitioning(party_id#12007, 200)

(2241) PhotonRowToColumnar
Input [2]: [party_id#12013, transaction_id#12014]

(2242) PhotonShuffleExchangeSink
Input [2]: [party_id#12013, transaction_id#12014]
Arguments: hashpartitioning(transaction_id#12014, 200)

(2243) PhotonShuffleMapStage
Input [2]: [party_id#12013, transaction_id#12014]
Arguments: ENSURE_REQUIREMENTS, [id=#153050]

(2244) PhotonShuffleExchangeSource
Input [2]: [party_id#12013, transaction_id#12014]

(2245) PhotonRowToColumnar
Input [1]: [fc_transaction_id#12017]

(2246) PhotonShuffleExchangeSink
Input [1]: [fc_transaction_id#12017]
Arguments: hashpartitioning(fc_transaction_id#12017, 200)

(2247) PhotonShuffleMapStage
Input [1]: [fc_transaction_id#12017]
Arguments: ENSURE_REQUIREMENTS, [id=#153055]

(2248) PhotonShuffleExchangeSource
Input [1]: [fc_transaction_id#12017]

(2249) PhotonShuffledHashJoin
Left keys [1]: [transaction_id#12014]
Right keys [1]: [fc_transaction_id#12017]
Join type: LeftSemi
Join condition: None

(2250) PhotonProject
Input [2]: [party_id#12013, transaction_id#12014]
Arguments: [party_id#12013]

(2251) PhotonGroupingAgg
Input [1]: [party_id#12013]
Arguments: [party_id#12013], [party_id#12013], false

(2252) PhotonShuffleExchangeSink

Input [1]: [party_id#12013]
Arguments: hashpartitioning(party_id#12013, 200)

(2253) PhotonShuffleMapStage
Input [1]: [party_id#12013]
Arguments: ENSURE_REQUIREMENTS, [id=#153065]

(2254) PhotonShuffleExchangeSource
Input [1]: [party_id#12013]

(2255) PhotonGroupingAgg
Input [1]: [party_id#12013]
Arguments: [party_id#12013], [party_id#12013], true

(2256) PhotonGroupingAgg
Input [1]: [party_id#12013]
Arguments: [party_id#12013], [party_id#12013], false

(2257) PhotonShuffleExchangeSink
Input [1]: [party_id#12013]
Arguments: hashpartitioning(party_id#12013, 200)

(2258) PhotonUnionShuffleExchangeSink

(2259) PhotonUnionShuffleMapStage
Input [1]: [party_id#12007]
Arguments: ENSURE_REQUIREMENTS, [id=#153078]

(2260) PhotonShuffleExchangeSource
Input [1]: [party_id#12007]

(2261) PhotonShuffledHashJoin
Left keys [1]: [party_id#11978]
Right keys [1]: [party_id#12007]
Join type: LeftSemi
Join condition: None

(2262) PhotonGroupingAgg
Input [11]: [party_name#11977, party_id#11978, company_id#11979, deleted_at#11980, county#11991, transaction_type#11992, fc_transaction_date#11993, fc_recorded_date#11994, fcdateupdated#12038, fctransactionid#11997, pdf_id#11998]
Arguments: [party_name#11977, party_id#11978, company_id#11979, deleted_at#11980, county#11991, transaction_type#11992, fc_transaction_date#11993, fc_recorded_date#11994, fcdateupdated#12038, fctransactionid#11997, pdf_id#11998], [party_name#11977, party_id#11978, company_id#11979, deleted_at#11980, county#11991, transaction_type#11992, fc_transaction_date#11993, fc_recorded_date#11994, fcdateupdated#12038, fctransactionid#11997, pdf_id#11998], false

(2263) PhotonShuffleExchangeSink
Input [11]: [party_name#11977, party_id#11978, company_id#11979, deleted_at#11980, county#11991, transaction_type#11992, fc_transaction_date#11993, fc_recorded_date#11994, fcdateupdated#12038, fctransactionid#11997, pdf_id#11998]
Arguments: hashpartitioning(pdf_id#11998, 200)

(2264) PhotonShuffleMapStage
Input [11]: [party_name#11977, party_id#11978, company_id#11979, deleted_at#11980, county#11991, transaction_type#11992, fc_transaction_date#11993, fc_recorded_date#11994, fcdateupdated#12038, fctransactionid#11997, pdf_id#11998]
Arguments: ENSURE_REQUIREMENTS, [id=#153091]

(2265) PhotonShuffleExchangeSource
Input [11]: [party_name#11977, party_id#11978, company_id#11979, deleted_at#11980, county#11991, transaction_type#11992, fc_transaction_date#11993, fc_recorded_date#11994, fcdateupdated#12038, fctransactionid#11997, pdf_id#11998]

(2266) PhotonRowToColumnar
Input [1]: [pdf_id#12019]

(2267) PhotonShuffleExchangeSink
Input [1]: [pdf_id#12019]
Arguments: hashpartitioning(pdf_id#12019, 200)

(2268) PhotonShuffleMapStage
Input [1]: [pdf_id#12019]
Arguments: ENSURE_REQUIREMENTS, [id=#153096]

(2269) PhotonShuffleExchangeSource
Input [1]: [pdf_id#12019]

(2270) PhotonShuffledHashJoin
Left keys [1]: [pdf_id#11998]
Right keys [1]: [pdf_id#12019]
Join type: LeftOuter
Join condition: None

(2271) PhotonProject
Input [12]: [party_name#11977, party_id#11978, company_id#11979, deleted_at#11980, county#11991, transaction_type#11992, fc_transaction_date#11993, fc_recorded_date#11994, fcdateupdated#12038, fctransactionid#11997, pdf_id#11998, pdf_id#12019]
Arguments: [party_name#11977, party_id#11978, company_id#11979, deleted_at#11980, county#11991, transaction_type#11992,

```
fc_transaction_date#11993, fc_recorded_date#11994, fcdateupdated#12038, fctransactionid#11997, ((isnotnull(pdf_id#12019) AND (transaction_type#11992 = MORTGAGE)) <=> true) AS has_pdf#12072]
```

(2272) PhotonGroupingAgg

```
Input [11]: [party_name#11977, party_id#11978, company_id#11979, deleted_at#11980, county#11991, transaction_type#11992, fc_transaction_date#11993, fc_recorded_date#11994, fcdateupdated#12038, fctransactionid#11997, has_pdf#12072]
```

```
Arguments: [party_name#11977, party_id#11978, company_id#11979, deleted_at#11980, county#11991, transaction_type#11992, fc_transaction_date#11993, fc_recorded_date#11994, fcdateupdated#12038, fctransactionid#11997, has_pdf#12072], [party_name#11977, party_id#11978, company_id#11979, deleted_at#11980, county#11991, transaction_type#11992, fc_transaction_date#11993, fc_recorded_date#11994, fcdateupdated#12038, fctransactionid#11997, has_pdf#12072], false
```

(2273) PhotonShuffleExchangeSink

```
Input [11]: [party_name#11977, party_id#11978, company_id#11979, deleted_at#11980, county#11991, transaction_type#11992, fc_transaction_date#11993, fc_recorded_date#11994, fcdateupdated#12038, fctransactionid#11997, has_pdf#12072]
```

```
Arguments: hashpartitioning(party_name#11977, party_id#11978, company_id#11979, deleted_at#11980, county#11991, transaction_type#11992, fc_transaction_date#11993, fc_recorded_date#11994, fcdateupdated#12038, fctransactionid#11997, has_pdf#12072, 200)
```

(2274) PhotonShuffleMapStage

```
Input [11]: [party_name#11977, party_id#11978, company_id#11979, deleted_at#11980, county#11991, transaction_type#11992, fc_transaction_date#11993, fc_recorded_date#11994, fcdateupdated#12038, fctransactionid#11997, has_pdf#12072]
```

```
Arguments: ENSURE_REQUIREMENTS, [id=#153107]
```

(2275) PhotonShuffleExchangeSource

```
Input [11]: [party_name#11977, party_id#11978, company_id#11979, deleted_at#11980, county#11991, transaction_type#11992, fc_transaction_date#11993, fc_recorded_date#11994, fcdateupdated#12038, fctransactionid#11997, has_pdf#12072]
```

(2276) PhotonGroupingAgg

```
Input [11]: [party_name#11977, party_id#11978, company_id#11979, deleted_at#11980, county#11991, transaction_type#11992, fc_transaction_date#11993, fc_recorded_date#11994, fcdateupdated#12038, fctransactionid#11997, has_pdf#12072]
```

```
Arguments: [party_name#11977, party_id#11978, company_id#11979, deleted_at#11980, county#11991, transaction_type#11992, fc_transaction_date#11993, fc_recorded_date#11994, fcdateupdated#12038, fctransactionid#11997, has_pdf#12072], [party_id#11978, county#11991, fc_recorded_date#11994], true
```

(2277) PhotonGroupingAgg

```
Input [3]: [party_id#11978, county#11991, fc_recorded_date#11994]
```

```
Arguments: [party_id#11978, county#11991], [partial_max(fc_recorded_date#11994) AS max#14269], [max#14268], [party_id#11978, county#11991, max#14269], false
```

(2278) PhotonShuffleExchangeSink

```
Input [3]: [party_id#11978, county#11991, max#14269]
```

```
Arguments: hashpartitioning(party_id#11978, county#11991, 200)
```

(2279) PhotonUnionShuffleExchangeSink

(2280) PhotonUnionShuffleMapStage

```
Input [3]: [party_id#11869, county#11882, max#14269]
```

```
Arguments: ENSURE_REQUIREMENTS, [id=#153125]
```

(2281) PhotonShuffleExchangeSource

```
Input [3]: [party_id#11869, county#11882, max#14269]
```

(2282) PhotonGroupingAgg

```
Input [3]: [party_id#11869, county#11882, max#14269]
```

```
Arguments: [party_id#11869, county#11882], [finalmerge_max(merge max#14269) AS max(fc_recorded_date#11885)#12117], [max(fc_recorded_date#11885)#12117], [party_id#11869, county#11882, max(fc_recorded_date#11885)#12117 AS fc_recorded_date#12116], true
```

(2283) PhotonShuffleExchangeSink

```
Input [3]: [party_id#11869, county#11882, fc_recorded_date#12116]
```

```
Arguments: hashpartitioning(party_id#11869, 200)
```

(2284) PhotonShuffleMapStage

```
Input [3]: [party_id#11869, county#11882, fc_recorded_date#12116]
```

```
Arguments: ENSURE_REQUIREMENTS, [id=#153136]
```

(2285) PhotonShuffleExchangeSource

```
Input [3]: [party_id#11869, county#11882, fc_recorded_date#12116]
```

(2286) PhotonSort

```
Input [3]: [party_id#11869, county#11882, fc_recorded_date#12116]
```

```
Arguments: [party_id#11869 ASC NULLS FIRST, fc_recorded_date#12116 DESC NULLS LAST]
```

(2287) PhotonResultStage

```
Input [3]: [party_id#11869, county#11882, fc_recorded_date#12116]
```

(2288) ColumnarToRow

```
Input [3]: [party_id#11869, county#11882, fc_recorded_date#12116]
```

(2289) Window

```
Input [3]: [party_id#11869, county#11882, fc_recorded_date#12116]
```

```
Arguments: [party_id#11869, collect_list(county#11882, 0, 0) windowpecdefinition(party_id#11869, fc_recorded_date#12116 DESC NULLS LAST, specifiedwindowframe(RangeFrame, unboundedpreceding$( ), currentrows())) AS ordered_concat#12122], [party_id#11869], [fc_recorded_date#12116 DESC NULLS LAST]
```

(2290) HashAggregate
Input [2]: [party_id#11869, ordered_concat#12122]
Keys [2]: [party_id#11869, ordered_concat#12122]
Functions: []
Aggregate Attributes: []
Results [2]: [party_id#11869, ordered_concat#12122]

(2291) Project
Output [2]: [party_id#11869, ordered_concat#12122]
Input [2]: [party_id#11869, ordered_concat#12122]

(2292) ObjectHashAggregate
Input [2]: [party_id#11869, ordered_concat#12122]
Keys [1]: [party_id#11869]
Functions [1]: [collect_list(ordered_concat#12122, 0, 0)]
Aggregate Attributes [1]: [collect_list(ordered_concat#12122, 0, 0)#12406]
Results [2]: [party_id#11869, substring(concat_ws(, flatten(collect_list(ordered_concat#12122, 0, 0)#12406)), 1, 500) AS recent_counties#12410]

(2293) Sort
Input [2]: [party_id#11869, recent_counties#12410]
Arguments: [party_id#11869 ASC NULLS FIRST], false, 0

(2294) SortMergeJoin
Left keys [1]: [party_id#12418]
Right keys [1]: [party_id#11869]
Join type: LeftOuter
Join condition: None

(2295) Project
Output [25]: [toprettystring(cast(party_id#12418 as bigint), Some(Etc/UTC)) AS toprettystring(id)#14132, toprettystring(party_name#12417, Some(Etc/UTC)) AS toprettystring(name)#14133, toprettystring(cast(company_id#12419 as bigint), Some(Etc/UTC)) AS toprettystring(company_id)#14134, toprettystring(cast(Most Recent Transaction#12879 as date), Some(Etc/UTC)) AS toprettystring(recent_transaction_date)#14135, toprettystring(cast>Last Purchase Date#12994 as date), Some(Etc/UTC)) AS toprettystring(last_purchase_date)#14136, toprettystring(cast>Last Sale Date#13104 as date), Some(Etc/UTC)) AS toprettystring(last_sale_date)#14137, toprettystring(coalesce(Mortgage Transactions#12650L, 0), Some(Etc/UTC)) AS toprettystring(mortgage_transactions)#14138, toprettystring(coalesce(Deed Transactions#12651L, 0), Some(Etc/UTC)) AS toprettystring(deed_transactions)#14139, toprettystring(coalesce(Satisfaction of Mortgage Transactions#12652L, 0), Some(Etc/UTC)) AS toprettystring(satisfaction_of_mort_transactions)#14140, toprettystring(coalesce(Assignment of Mortgage Transactions#12653L, 0), Some(Etc/UTC)) AS toprettystring(assignment_of_mortgage_transactions)#14141, toprettystring(coalesce(lis_pendens_transactions#12654L, 0), Some(Etc/UTC)) AS toprettystring(lis_pendens_transactions)#14142, toprettystring(coalesce(judgment_transactions#12655L, 0), Some(Etc/UTC)) AS toprettystring(judgment_transactions)#14143, toprettystring(coalesce(loan_modification_transactions#12656L, 0), Some(Etc/UTC)) AS toprettystring(loan_modification_transactions)#14144, toprettystring(coalesce(Transactions as Buyer#13336L, 0), Some(Etc/UTC)) AS toprettystring(transactions_as_buyer)#14145, toprettystring(coalesce(Transactions as Seller#13217L, 0), Some(Etc/UTC)) AS toprettystring(transactions_as_seller)#14146, toprettystring(coalesce(Transactions as Borrower#13218L, 0), Some(Etc/UTC)) AS toprettystring(transactions_as_borrower)#14147, toprettystring(coalesce(Transactions as Lender#13337L, 0), Some(Etc/UTC)) AS toprettystring(transactions_as_lender)#14148, toprettystring>Last Lender Used#13602, Some(Etc/UTC)) AS toprettystring(last_lender_used)#14149, toprettystring(cast>Last Mortgage Date#13603 as date), Some(Etc/UTC)) AS toprettystring(last_mortgage_date)#14150, toprettystring(last_county#13604, Some(Etc/UTC)) AS toprettystring(last_county)#14151, toprettystring(recent_counties#12410, Some(Etc/UTC)) AS toprettystring(recent_counties)#14152, toprettystring(recent_lenders#13886, Some(Etc/UTC)) AS toprettystring(recent_lenders)#14153, toprettystring(fcdateupdated#12880, Some(Etc/UTC)) AS toprettystring(fc_updated_at)#14154, toprettystring(deleted_at#12648, Some(Etc/UTC)) AS toprettystring(deleted_at)#14155, toprettystring(has_pdf#12649, Some(Etc/UTC)) AS toprettystring(has_pdf)#14156]
Input [26]: [party_name#12417, party_id#12418, company_id#12419, deleted_at#12648, has_pdf#12649, Mortgage Transactions#12650L, Deed Transactions#12651L, Satisfaction of Mortgage Transactions#12652L, Assignment of Mortgage Transactions#12653L, lis_pendens_transactions#12654L, judgment_transactions#12655L, loan_modification_transactions#12656L, Most Recent Transaction#12879, fcdateupdated#12880, Last Purchase Date#12994, Last Sale Date#13104, Transactions as Seller#13217L, Transactions as Borrower#13218L, Transactions as Buyer#13336L, Transactions as Lender#13337L, Last Lender Used#13602, Last Mortgage Date#13603, last_county#13604, recent_lenders#13886, party_id#11869, recent_counties#12410]

(2296) CollectLimit
Input [25]: [toprettystring(id)#14132, toprettystring(name)#14133, toprettystring(company_id)#14134, toprettystring(recent_transaction_date)#14135, toprettystring(last_purchase_date)#14136, toprettystring(last_sale_date)#14137, toprettystring(mortgage_transactions)#14138, toprettystring(deed_transactions)#14139, toprettystring(satisfaction_of_mort_transactions)#14140, toprettystring(assignment_of_mortgage_transactions)#14141, toprettystring(lis_pendens_transactions)#14142, toprettystring(judgment_transactions)#14143, toprettystring(loan_modification_transactions)#14144, toprettystring(transactions_as_buyer)#14145, toprettystring(transactions_as_seller)#14146, toprettystring(transactions_as_borrower)#14147, toprettystring(transactions_as_lender)#14148, toprettystring(last_lender_used)#14149, toprettystring(last_mortgage_date)#14150, toprettystring(last_county)#14151, toprettystring(recent_counties)#14152, toprettystring(recent_lenders)#14153, toprettystring(fc_updated_at)#14154, toprettystring(deleted_at)#14155, toprettystring(has_pdf)#14156]
Arguments: 21

(2297) AdaptiveSparkPlan
Output [25]: [toprettystring(id)#14132, toprettystring(name)#14133, toprettystring(company_id)#14134, toprettystring(recent_transaction_date)#14135, toprettystring(last_purchase_date)#14136, toprettystring(last_sale_date)#14137, toprettystring(mortgage_transactions)#14138, toprettystring(deed_transactions)#14139, toprettystring(satisfaction_of_mort_transactions)#14140, toprettystring(assignment_of_mortgage_transactions)#14141, toprettystring(lis_pendens_transactions)#14142, toprettystring(judgment_transactions)#14143, toprettystring(loan_modification_transactions)#14144, toprettystring(transactions_as_buyer)#14145, toprettystring(transactions_as_seller)#14146, toprettystring(transactions_as_borrower)#14147, toprettystring(transactions_as_lender)#14148, toprettystring(last_lender_used)#14149, toprettystring(last_mortgage_date)#14150, toprettystring(last_county)#14151, toprettystring(recent_counties)#14152, toprettystring(recent_lenders)#14153,

```
toprettystring(fc_updated_at)#14154, toprettystring(deleted_at)#14155, toprettystring(has_pdf)#14156]
Arguments: isFinalPlan=false
```

== Photon Explanation ==

Photon does not fully support the query because:

```
collect_list(fc_cross_party#13857, 0, 0) is not supported:
  Unsupported aggregation function collect_list(fc_cross_party#13857, 0, 0) for Complete aggregation.
```

Reference node:

```
Window [party_id#13606, collect_list(fc_cross_party#13857, 0, 0) windowpecdefinition(party_id#13606, fc_recorded_date#13869 DESC
NULLS LAST, specifiedwindowframe(RangeFrame, unboundedpreceding$(), currentrow$())) AS ordered_concat#13875], [party_id#13606],
[fc_recorded_date#13869 DESC NULLS LAST]
```

Photon does not fully support the query because:

```
collect_list(county#11882, 0, 0) is not supported:
  Unsupported aggregation function collect_list(county#11882, 0, 0) for Complete aggregation.
```

Reference node:

```
Window [party_id#11869, collect_list(county#11882, 0, 0) windowpecdefinition(party_id#11869, fc_recorded_date#12116 DESC NULLS
LAST, specifiedwindowframe(RangeFrame, unboundedpreceding$(), currentrow$())) AS ordered_concat#12122], [party_id#11869],
[fc_recorded_date#12116 DESC NULLS LAST]
```

► [SQL / DataFrame Properties](#)