

[Jobs \(/jobs/\)](/jobs/)

[Stages \(/stages/\)](/stages/)

[Storage \(/storage/\)](/storage/)

[Environment \(/environment/\)](/environment/)

[Executors \(/executors/\)](/executors/)

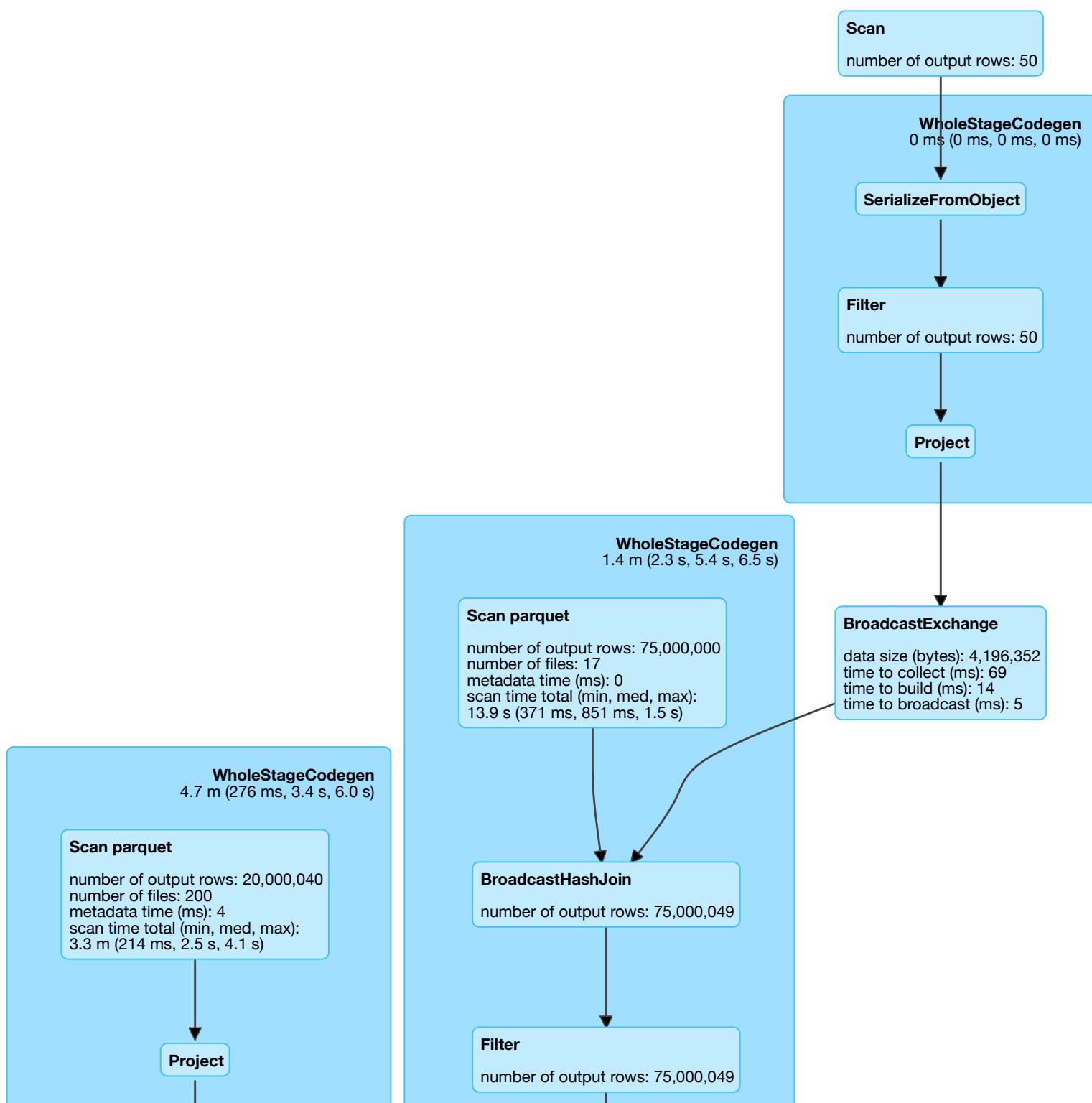
[SQL \(/SQL/\)](/SQL/)

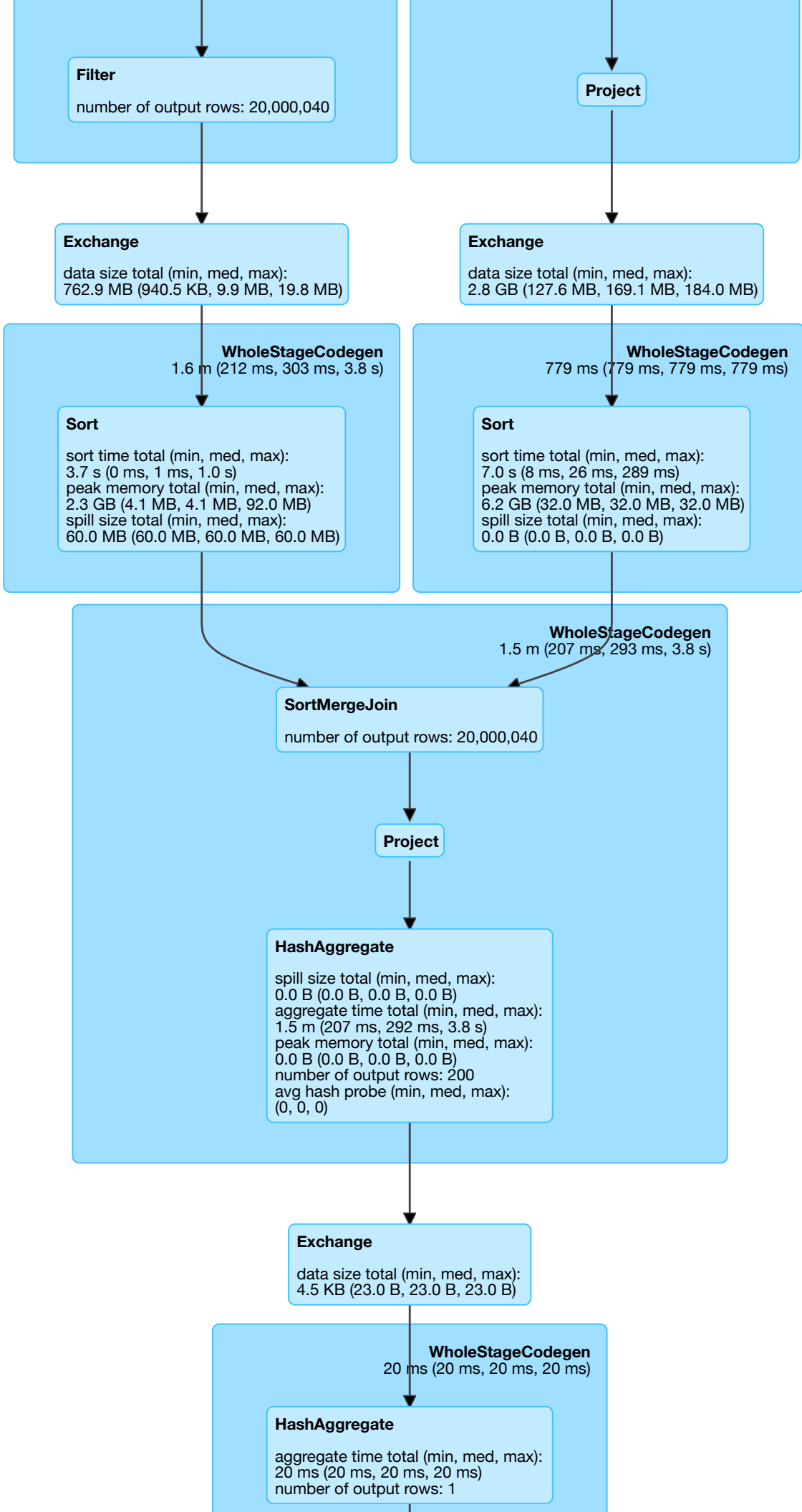
Details for Query 5

Submitted Time: 2020/05/07 11:38:45

Duration: 43 s

Succeeded Jobs: 4 (</jobs/job/?id=4>) 5 (</jobs/job/?id=5>)







CollectLimit

▼ Details

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== Parsed Logical Plan ==
GlobalLimit 21
+- LocalLimit 21
  +- Project [cast(avg_revenue#71 as string) AS avg_revenue#75]
    +- Aggregate [avg((cast(price#2 as double) * cast(num_pieces_sold#10 as double))) AS avg_revenue#71]
      +- Join Inner, (salted_product_id#52 = salted_key1#63)
        :- SubqueryAlias `o`
        :   +- SubqueryAlias `orders_salted`
        :     +- Project [order_id#6, product_id#7, seller_id#8, date#9, num_pieces_sold#10,
bill_raw_text#11, CASE WHEN product_id#7 IN (0) THEN concat(product_id#7, -,
cast(cast(round((rand(815980494930188591) * cast(49 as double)), 0) as int) as string)) ELSE product_id#7 END AS
salted_key1#63]
          :   +- Relation[order_id#6,product_id#7,seller_id#8,date#9,num_pieces_sold#10,bill_raw_text#11]
parquet
        +- SubqueryAlias `p`
          +- SubqueryAlias `products_salted`
            +- Project [product_id#0, product_name#1, price#2, salted_product_id#52]
              +- Project [product_id#0, product_name#1, price#2, original_key#33, salt#34, CASE WHEN
isnull(salt#34) THEN product_id#0 ELSE concat(product_id#0, -, salt#34) END AS salted_product_id#52]
                +- Join LeftOuter, (product_id#0 = original_key#33)
                  :- Relation[product_id#0,product_name#1,price#2] parquet
                +- ResolvedHint (broadcast)
                  +- Project [_1#29 AS original_key#33, _2#30 AS salt#34]
                    +- SerializeFromObject [staticinvoke(class
org.apache.spark.unsafe.types.UTF8String, StringType, fromString, assertnotnull(assertnotnull(input[0,
scala.Tuple2, true]))._1, true, false) AS _1#29, staticinvoke(class org.apache.spark.unsafe.types.UTF8String,
StringType, fromString, assertnotnull(assertnotnull(input[0, scala.Tuple2, true]))._2, true, false) AS _2#30]
                      +- ExternalRDD [obj#28]

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== Analyzed Logical Plan ==
avg_revenue: string
GlobalLimit 21
+- LocalLimit 21
  +- Project [cast(avg_revenue#71 as string) AS avg_revenue#75]
    +- Aggregate [avg((cast(price#2 as double) * cast(num_pieces_sold#10 as double))) AS avg_revenue#71]
      +- Join Inner, (salted_product_id#52 = salted_key1#63)
        :- SubqueryAlias `o`
        :   +- SubqueryAlias `orders_salted`
        :     +- Project [order_id#6, product_id#7, seller_id#8, date#9, num_pieces_sold#10,
bill_raw_text#11, CASE WHEN product_id#7 IN (0) THEN concat(product_id#7, -,
cast(cast(round((rand(815980494930188591) * cast(49 as double)), 0) as int) as string)) ELSE product_id#7 END AS
salted_key1#63]
          :   +- Relation[order_id#6,product_id#7,seller_id#8,date#9,num_pieces_sold#10,bill_raw_text#11]
parquet
        +- SubqueryAlias `p`
          +- SubqueryAlias `products_salted`
            +- Project [product_id#0, product_name#1, price#2, salted_product_id#52]
              +- Project [product_id#0, product_name#1, price#2, original_key#33, salt#34, CASE WHEN
isnull(salt#34) THEN product_id#0 ELSE concat(product_id#0, -, salt#34) END AS salted_product_id#52]
                +- Join LeftOuter, (product_id#0 = original_key#33)
                  :- Relation[product_id#0,product_name#1,price#2] parquet
                +- ResolvedHint (broadcast)
                  +- Project [_1#29 AS original_key#33, _2#30 AS salt#34]
                    +- SerializeFromObject [staticinvoke(class
org.apache.spark.unsafe.types.UTF8String, StringType, fromString, assertnotnull(assertnotnull(input[0,
scala.Tuple2, true]))._1, true, false) AS _1#29, staticinvoke(class org.apache.spark.unsafe.types.UTF8String,
StringType, fromString, assertnotnull(assertnotnull(input[0, scala.Tuple2, true]))._2, true, false) AS _2#30]
                      +- ExternalRDD [obj#28]

```

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== Optimized Logical Plan ==
GlobalLimit 21

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+- LocalLimit 21
  +- Aggregate [cast(avg((cast(price#2 as double) * cast(num_pieces_sold#10 as double))) as string) AS
avg_revenue#75]
    +- Project [num_pieces_sold#10, price#2]
      +- Join Inner, (salted_product_id#52 = salted_key1#63)
        :- Filter isnnull(salted_key1#63)
          : +- Project [num_pieces_sold#10, CASE WHEN (product_id#7 = 0) THEN concat(product_id#7, -,
cast(cast(round((rand(815980494930188591) * 49.0), 0) as int) as string)) ELSE product_id#7 END AS
salted_key1#63]
            : +- Relation[order_id#6,product_id#7,seller_id#8,date#9,num_pieces_sold#10,bill_raw_text#11]
parquet
      +- Project [price#2, CASE WHEN isnnull(salt#34) THEN product_id#0 ELSE concat(product_id#0, -,
salt#34) END AS salted_product_id#52]
        +- Filter isnnull(CASE WHEN isnnull(salt#34) THEN product_id#0 ELSE concat(product_id#0, -,
salt#34) END)
          +- Join LeftOuter, (product_id#0 = original_key#33)
            :- Project [product_id#0, price#2]
              : +- Relation[product_id#0,product_name#1,price#2] parquet
            +- ResolvedHint (broadcast)
              +- Project [_1#29 AS original_key#33, _2#30 AS salt#34]
                +- Filter isnnull(_1#29)
                  +- SerializeFromObject [staticinvoke(class
org.apache.spark.unsafe.types.UTF8String, StringType, fromString, assertNotNull(input[0], scala.Tuple2,
true))._1, true, false) AS _1#29, staticinvoke(class org.apache.spark.unsafe.types.UTF8String, StringType,
fromString, assertNotNull(input[0], scala.Tuple2, true))._2, true, false) AS _2#30]
                    +- ExternalRDD [obj#28]

== Physical Plan ==
CollectLimit 21
+- *(7) HashAggregate(keys=[], functions=[avg((cast(price#2 as double) * cast(num_pieces_sold#10 as double)))],
output=[avg_revenue#75])
  +- Exchange SinglePartition
    +- *(6) HashAggregate(keys=[], functions=[partial_avg((cast(price#2 as double) * cast(num_pieces_sold#10
as double)))], output=[sum#79, count#80L])
      +- *(6) Project [num_pieces_sold#10, price#2]
        +- *(6) SortMergeJoin [salted_key1#63], [salted_product_id#52], Inner
          :- *(2) Sort [salted_key1#63 ASC NULLS FIRST], false, 0
            : +- Exchange hashpartitioning(salted_key1#63, 200)
              : +- *(1) Filter isnnull(salted_key1#63)
                : +- *(1) Project [num_pieces_sold#10, CASE WHEN (product_id#7 = 0) THEN
concat(product_id#7, -, cast(cast(round((rand(815980494930188591) * 49.0), 0) as int) as string)) ELSE
product_id#7 END AS salted_key1#63]
                  : +- *(1) FileScan parquet
[order_id#6,product_id#7,seller_id#8,date#9,num_pieces_sold#10,bill_raw_text#11] Batched: true, Format: Parquet,
Location: InMemoryFileIndex[file:/Users/o60774/Downloads/product-sales/sales_parquet/part-00102-e651a798-93...,
PartitionFilters: [], PushedFilters: [], ReadSchema:
struct<order_id:string,product_id:string,seller_id:string,date:string,num_pieces_sold:string,bill...
                    +- *(5) Sort [salted_product_id#52 ASC NULLS FIRST], false, 0
                      +- Exchange hashpartitioning(salted_product_id#52, 200)
                        +- *(4) Project [price#2, CASE WHEN isnnull(salt#34) THEN product_id#0 ELSE
concat(product_id#0, -, salt#34) END AS salted_product_id#52]
                          +- *(4) Filter isnnull(CASE WHEN isnnull(salt#34) THEN product_id#0 ELSE
concat(product_id#0, -, salt#34) END)
                            +- *(4) BroadcastHashJoin [product_id#0], [original_key#33], LeftOuter, BuildRight
                              :- *(4) FileScan parquet [product_id#0,price#2] Batched: true, Format: Parquet,
Location: InMemoryFileIndex[file:/Users/o60774/Downloads/product-sales/products_parquet/part-00015-0f978a44...,
PartitionFilters: [], PushedFilters: [], ReadSchema: struct<product_id:string,price:string>
                                +- BroadcastExchange HashedRelationBroadcastMode(List(input[0, string, true]))
                                  +- *(3) Project [_1#29 AS original_key#33, _2#30 AS salt#34]
                                    +- *(3) Filter isnnull(_1#29)
                                      +- *(3) SerializeFromObject [staticinvoke(class

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org.apache.spark.unsafe.types.UTF8String, StringType, fromString, assertNotNull(input[0, scala.Tuple2,
true])._1, true, false) AS _1#29, staticinvoke(class org.apache.spark.unsafe.types.UTF8String, StringType,
fromString, assertNotNull(input[0, scala.Tuple2, true])._2, true, false) AS _2#30]
+- Scan[obj#28]
```