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Broadcast stage(end_node_id 17): date_dim,10000FileScan->Filter->Project->BroadcastExchange

Broadcast stage(end_node_id 21): store,10000FileScan->Filter->BroadcastExchange

Broadcast stage(end_node_id 24): item,10000FileScan->Filter->BroadcastExchange

First stage (end_node_id 6): File Scan store_sales,15217.4FileScan->Filter->BroadcastHashJoin->Project->BroadcastHashJoin->Project->BroadcastHashJoin->Project->HashAggregate->ExchangeHashpartitioning

NormalStage (end_node_id 4): length of beginNodesToChains is 1
[1,0,0,1,0,0,0,0]
Chain 0 is : HashAggregate(keys=[i_category#120, i_class#121, i_brand#122, i_product_name#123, d_year#124, d_qoy#125, d_moy#126, s_store_id#127, spark_grouping_id#119L], functions=[sum(coalesce((ss_sales_price#17 * cast(ss_quantity#14 as double)), 0.0))])
HashAggregate->ExchangeHashpartitioning

NormalStage (end_node_id 0): length of beginNodesToChains is 1
[1,0,0,0,1,0,1,0]
Chain 0 is : Sort [i_category#120 ASC NULLS FIRST, sumsales#0 DESC NULLS LAST], false, 0
Sort->Empty->Filter->TakeOrderedAndProject
```