

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

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

Broadcast stage(end_node_id 24): store,10000FileScan->Filter->Project->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#118, i_class#119, spark_grouping_id#117L], functions=[sum(ss_net_profit#27), sum(ss_ext_sales_price#20)])
HashAggregate->ExchangeHashpartitioning

NormalStage (end_node_id 0): length of beginNodesToChains is 1
[1,0,1,0,1,0,0,0]
Chain 0 is : Sort [_w1#132 ASC NULLS FIRST, _w2#133 ASC NULLS FIRST, _w3#134 ASC NULLS FIRST], false, 0
Sort->Empty->Project->TakeOrderedAndProject