EXPLAIN QUERY PLAN REPORT on 4_overgroup

generated at 2025-09-15T00:07:02

Table of contents:

1. SQL statement q4_overgroup_query.sql

```
--- AGGREGATION --- Partitioning with row_number function
with header1( col1, col2, col3, col4, col5) as
 (select " goods_id", "customer_id", "goods_type", "goods_weight", "comment")
   ,header2( col1, col2, col3, col4, col5) as
  (select " goods_id", "customer_id", "goods_type", "goods_weight", "row number on goods_weight partioned
with goods_type ")
---- source data
select "SubTab","A table with processing input data ", " ",  " ", " "
union all
select h1.col1, h1.col2, h1.col3,  h1.col4 ,  h1.col5 from header1 h1
union all
select goods_id,
    customer_id,
    goods_type,
    goods_weight,
 "An input data for an example query"
from CUSTGOODS
union all
select "SubTab","A table with results data ", " ",  " ", " "
union all
select h2.col1, h2.col2, h2.col3, h2.col4, h2.col5 from header2 h2
union all
select goods_id,
    customer_id,
    goods_type,
    goods_weight,
   (ROW_NUMBER()
      OVER (partition by
      goods_type
      order BY goods_weight)) rn
FROM CUSTGOODS
--union all select "--- generated at " || strftime( datetime(current_timestamp, 'localtime'))
```

2. Explain query plan generated by <EXPLAINE QUERY PLAN sql_statement>

2.1. Plain report

step	id	parent	unused	detail
1	1	0	0	COMPOUND QUERY
2	2	1	0	LEFT-MOST SUBQUERY
3	3	2	0	**SCAN CONSTANT ROW**
4	10	1	0	UNION ALL
5	12	10	0	CO-ROUTINE header1
6	13	12	0	**SCAN CONSTANT ROW**
7	21	10	16	**SCAN h1**
8	31	1	0	UNION ALL
9	33	31	216	**SCAN CUSTGOODS**
10	42	1	0	UNION ALL
11	43	42	0	**SCAN CONSTANT ROW**
12	50	1	0	UNION ALL
13	52	50	0	CO-ROUTINE header2
14	53	52	0	**SCAN CONSTANT ROW**
15	61	50	16	**SCAN h2**
16	71	1	0	UNION ALL
17	74	71	0	CO-ROUTINE (subquery-9)
18	77	74	216	**SCAN CUSTGOODS**
19	88	74	0	USE TEMP B-TREE FOR ORDER BY
20	107	71	216	**SCAN (subquery-9)**

2.2. GRAPH report

```
          EXPLAINE QUERY PLAN
step 1....  |__COMPOUND QUERY...node(id: 1)
step 2....     |--LEFT-MOST SUBQUERY...node(id: 2)
step 3....     |  |__SCAN CONSTANT ROW...node(id: 3)
step 4....     |--UNION ALL...node(id: 10)
step 5....     |  |--CO-ROUTINE header1...node(id: 12)
step 6....     |  |  |__SCAN CONSTANT ROW...node(id: 13)
step 7....     |  |__SCAN h1...node(id: 21, notused: 16)
step 8....     |--UNION ALL...node(id: 31)
step 9....     |  |__SCAN CUSTGOODS...node(id: 33, notused: 216)
step 10...     |--UNION ALL...node(id: 42)
step 11...     |  |__SCAN CONSTANT ROW...node(id: 43)
step 12...     |--UNION ALL...node(id: 50)
step 13...     |  |--CO-ROUTINE header2...node(id: 52)
step 14...     |  |  |__SCAN CONSTANT ROW...node(id: 53)
step 15...     |  |__SCAN h2...node(id: 61, notused: 16)
step 16...     |__UNION ALL...node(id: 71)
step 17...        |--CO-ROUTINE (subquery-9)...node(id: 74)
step 18...        |  |--SCAN CUSTGOODS...node(id: 77, notused: 216)
step 19...        |  |__USE TEMP B-TREE FOR ORDER BY...node(id: 88)
step 20...        |__SCAN (subquery-9)...node(id: 107, notused: 216)
```