SQL results report on 5_overgroup

generated at 2025-09-15T00:06:27

Table of contents:

1. SQL statment 5_overgroup content

```
--- AGGREGATION ---  Partitioning with row_number function
with suppl(preffix, header1, header2, suffix, row_delimeter) as (select
       substr('|       |           |           |             |            ',1,48)
       ," goods_id| customer_id| goods_type| goods_weight"
       ," goods_id| customer_id| goods_type| goods_weight| row number on goods_weight"
       ,substr('               ',1,15)
       ,"-------------------------------------------------------------------------")
---- source data
select s.row_delimeter from suppl s
union all
select 'Input q4 DATA ==>'
union all
select s.header1 from suppl s
union all
select substr(goods_id||s.suffix,1,length('goods_id'))||'| '||
       substr(customer_id||s.suffix,1,length('customer_id'))||'| '||
       substr(goods_type||s.suffix,1,length('goods_type'))||'| '||
       substr(goods_weight||s.suffix,1,length('goods_weight'))
from CUSTGOODS, suppl s
union all
----- selected data
select s.row_delimeter from suppl s
union all
select 'Result q4 DATA ==>'
union all
select s.header2 from suppl s
union all
select (s.preffix||' partioned with goods_type  ') from suppl s
union all
select substr(goods_id||s.suffix,1,length('goods_id'))||'| '||
       substr(customer_id||s.suffix,1,length('customer_id'))||'| '||
       substr(goods_type||s.suffix,1,length('goods_type'))||'| '||
       substr(goods_weight||s.suffix,1,length('goods_weight'))||'| '||
      (ROW_NUMBER()
            OVER (partition by
            goods_type
            order BY goods_weight)) rn
FROM CUSTGOODS, suppl s
union all select "--- generated at " || strftime( datetime(current_timestamp, 'localtime'))
```

2. SQL results

```
------------------------------------------------------------------------
Input q4 DATA ==>
goods_id| customer_id| goods_type| goods_weight
1       | 1          | type1     | 15
2       | 2          | type2     | 6
3       | 3          | type3     | 7
4       | 1          | type1     | 19
5       | 3          | type3     | 67
6       | 3          | type3     | 56
7       | 1          | type1     | 37
8       | 3          | type3     | 21
9       | 2          | type2     | 54
10      | 3          | type3     | 18
11      | 1          | type1     | 94
12      | 2          | type2     | 55
13      | 2          | type2     | 28
14      | 1          | type1     | 35
15      | 2          | type2     | 26
------------------------------------------------------------------------
Result q4 DATA ==>
goods_id| customer_id| goods_type| goods_weight| row number on goods_weight
|       |            |           |             | partioned with goods_type
1       | 1          | type1     | 15          | 1
4       | 1          | type1     | 19          | 2
14      | 1          | type1     | 35          | 3
7       | 1          | type1     | 37          | 4
11      | 1          | type1     | 94          | 5
2       | 2          | type2     | 6           | 1
15      | 2          | type2     | 26          | 2
13      | 2          | type2     | 28          | 3
9       | 2          | type2     | 54          | 4
12      | 2          | type2     | 55          | 5
3       | 3          | type3     | 7           | 1
10      | 3          | type3     | 18          | 2
8       | 3          | type3     | 21          | 3
6       | 3          | type3     | 56          | 4
5       | 3          | type3     | 67          | 5
--- generated at 2025-09-15 00:06:27
```