**TP EXAMEN**

1 -

@base-northwind.sql

1 -

select EMPLOYEE\_ID as empl\_id, SHIP\_CITY as ship\_city, count(\*) as nborder

from Orders

group by cube(EMPLOYEE\_ID,ship\_city)

Order by EMPLOYEE\_ID,SHIP\_CITY;

2 -

select EMPLOYEE\_ID as empl\_id, SHIP\_CITY as ship\_city, count(\*) as nborder,

CASE

WHEN (grouping(EMPLOYEE\_ID) = 0 and grouping(SHIP\_CITY) = 0)

THEN 'city-empl'

WHEN (grouping(EMPLOYEE\_ID) = 0 and grouping(SHIP\_CITY) = 1)

THEN 'employee'

WHEN (grouping(EMPLOYEE\_ID) = 1 and grouping(SHIP\_CITY) = 0)

THEN 'ship\_city'

ELSE 'global' END as summary\_level

from Orders

group by cube(EMPLOYEE\_ID,ship\_city)

Order by EMPLOYEE\_ID,SHIP\_CITY;

2.2 -

with tmp as(

select EMPLOYEE\_ID as empl\_id, SHIP\_CITY as ship\_city, count(\*) as nborder,

CASE

WHEN (grouping(EMPLOYEE\_ID) = 0 and grouping(SHIP\_CITY) = 0)

THEN 'city-empl'

WHEN (grouping(EMPLOYEE\_ID) = 0 and grouping(SHIP\_CITY) = 1)

THEN 'employee'

WHEN (grouping(EMPLOYEE\_ID) = 1 and grouping(SHIP\_CITY) = 0)

THEN 'ship\_city'

ELSE 'global' END as summary\_level

from Orders

group by cube(EMPLOYEE\_ID,ship\_city)

Order by EMPLOYEE\_ID,SHIP\_CITY

)

select empl\_id,ship\_city,nborder,summary\_level

from tmp

where summary\_level = 'city-empl'

and nborder >= 5

union

select empl\_id, ship\_city, nborder,summary\_level

from tmp

where summary\_level != 'city-empl';

3 -

select c.country as country, o.order\_ID as order\_id,

round((sum(od.unit\_price \* od.quantity \* (1 - od.discount))), 4) as price ,

Rank() Over (Partition by c.country Order by sum(od.unit\_price \* od.quantity \* (1 - od.discount)) desc) as ranking

from Customers c, Orders o, ORDER\_DETAILS od

where c.customer\_ID = o.customer\_ID

and o.order\_ID = od.order\_ID

group by c.country, o.order\_id

order by c.country, o.order\_ID;

4 -

WITH t( id , u) aS

(

SELECT 0,1 FROM DUAL

UNION ALL

SELECT id+1,u+(power(-1,id+1)/((2\*id+3)\*power(3,id+1))) from t

where id<30

)

SELECT u FROM t

where id=20;