**Report “Lab 2”**

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# Advanced Grouping tasks – Reports

## Task 03: CREATE Test AdHoc SQL - Daily Reports (CUBE)

I have created adhoc SQL script, which will calculate Daily Reports (According report layouts on task 01):

SELECT restaurant\_name

, restaurant\_address

, dish\_type\_name

, TO\_CHAR ( amount

, '9,999,999' )

AS amount

, TO\_CHAR ( total\_price

, '$999,999,999.00' )

AS total\_price

FROM ( SELECT DECODE ( GROUPING ( rest.restaurant\_name ), 1, 'All Restaurants', rest.restaurant\_name )

AS restaurant\_name

, DECODE ( GROUPING ( rest.restaurant\_address ), 1, 'All Restaurants', rest.restaurant\_address )

AS restaurant\_address

, DECODE ( GROUPING ( dish.dish\_type\_name ), 1, 'All Types', dish.dish\_type\_name ) AS dish\_type\_name

, SUM ( oper.unit\_amount ) AS amount

, SUM ( oper.total\_price\_dol ) AS total\_price

FROM cls\_operations oper

LEFT JOIN (SELECT ROWNUM restaurant\_id

, t.\*

FROM cls\_restaurants t) rest

ON oper.restaurant\_id = rest.restaurant\_id

LEFT JOIN (SELECT ROWNUM dish\_id

, d.\*

FROM cls\_dishes d) dish

ON dish.dish\_id = oper.dish\_id

WHERE TRUNC ( oper.event\_dt

, 'DD' ) = TO\_DATE ( '06-JAN-2012'

, 'DD-MON-YYYY' )

AND rest.restaurant\_country\_name = 'Germany'

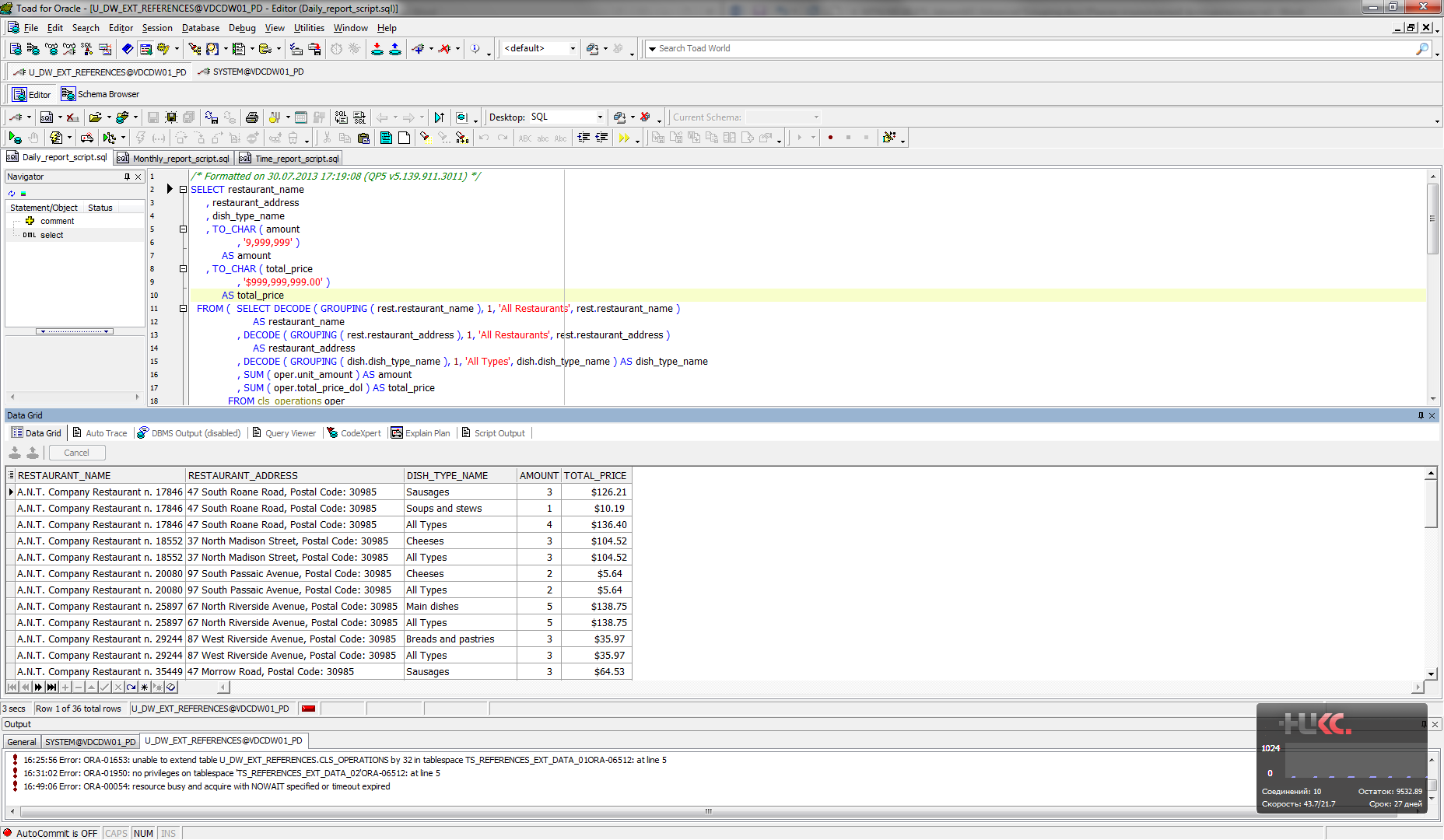
AND rest.restaurant\_city = 'Chemnitz'

GROUP BY CUBE ( ( rest.restaurant\_name, rest.restaurant\_address ), dish.dish\_type\_name )

ORDER BY rest.restaurant\_name

, rest.restaurant\_address

, dish.dish\_type\_name);



## Task 04: CREATE Test AdHoc SQL - Monthly Reports (ROLLUP)

I have created adhoc SQL script, which will calculate Monthly Reports (According report layouts on task 02).

SELECT restaurant\_country\_name AS country

, restaurant\_city AS city

, TO\_CHAR ( amount

, '9,999,999' )

AS amount

, TO\_CHAR ( total\_price

, '$999,999,999,999' )

AS total\_price

FROM ( SELECT DECODE ( GROUPING ( rest.restaurant\_country\_name ), 1, 'All Countries', rest.restaurant\_country\_name )

AS restaurant\_country\_name

, DECODE ( GROUPING ( rest.restaurant\_city ), 1, 'All Cities', rest.restaurant\_city ) AS restaurant\_city

, SUM ( oper.unit\_amount ) AS amount

, SUM ( oper.total\_price\_dol ) AS total\_price

FROM cls\_operations oper

LEFT JOIN (SELECT ROWNUM restaurant\_id

, t.\*

FROM cls\_restaurants t) rest

ON oper.restaurant\_id = rest.restaurant\_id

LEFT JOIN (SELECT ROWNUM dish\_id

, d.\*

FROM cls\_dishes d) dish

ON dish.dish\_id = oper.dish\_id

WHERE TRUNC ( oper.event\_dt

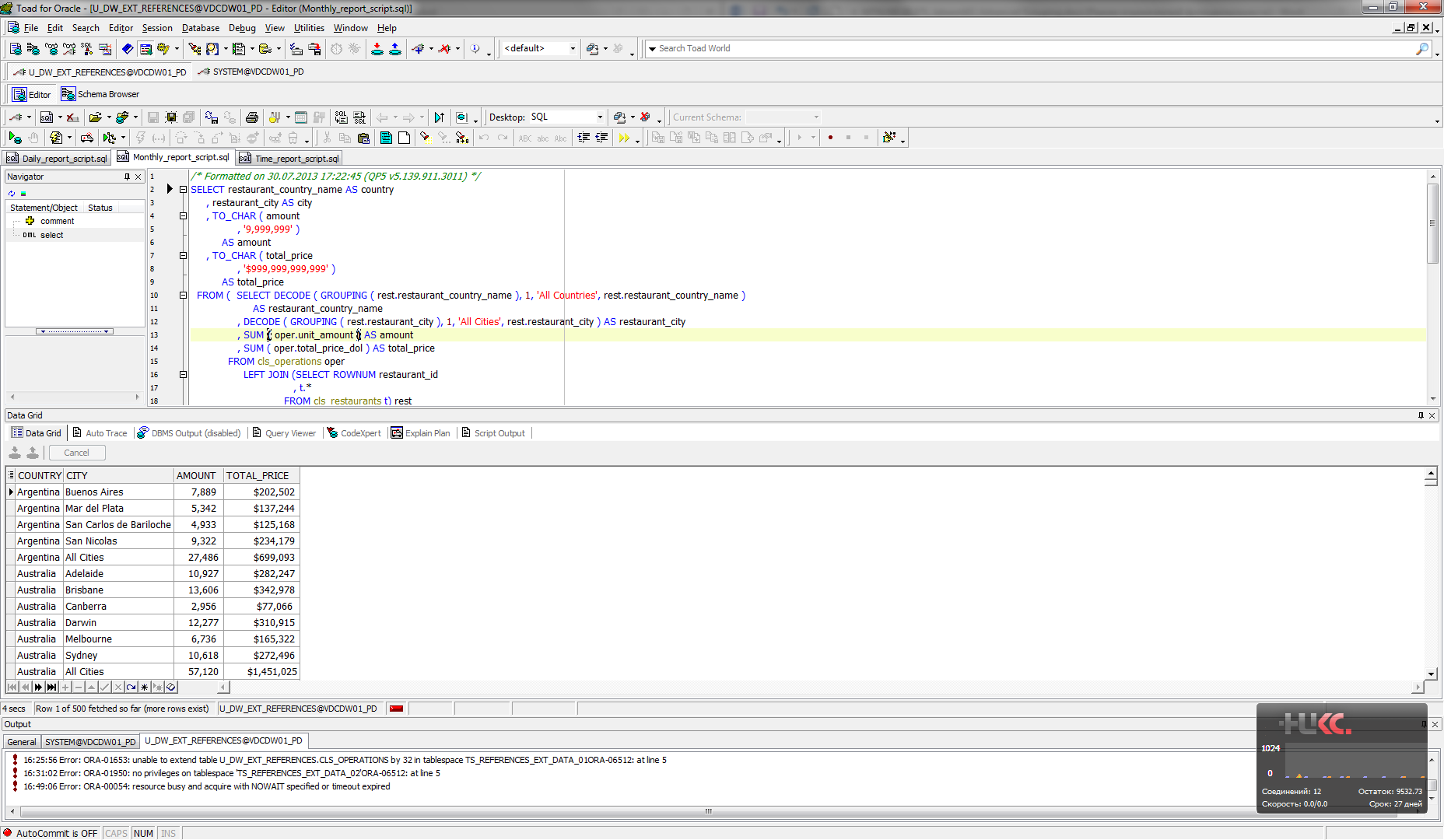
, 'MONTH' ) = TO\_DATE ( '01-JAN-2012'

, 'DD-MON-YYYY' )

GROUP BY ROLLUP ( rest.restaurant\_country\_name, rest.restaurant\_city )

ORDER BY rest.restaurant\_country\_name

, rest.restaurant\_city);



## Task 05: CREATE Test AdHoc SQL – ROLLUP by Time

I have created adhoc SQL script, which will calculate Time Based Reports.

Measurements are calculated by next levels:

• DAY

• MONTH

• QUARTER

• YEAR

SELECT year\_numb

, quarter\_numb

, month\_mm

, month\_month

, week

, day\_dd

, day\_day

, SUM ( unit\_amount ) AS amount

, SUM ( total\_price\_dol ) AS total\_price

FROM (SELECT oper.event\_dt

, TO\_CHAR ( TRUNC ( oper.event\_dt

, 'DD' )

, 'DD' )

AS day\_dd

, TO\_CHAR ( TRUNC ( oper.event\_dt

, 'DD' )

, 'Day' )

AS day\_day

, TO\_CHAR ( TRUNC ( oper.event\_dt

, 'W' )

, 'W' )

AS week

, TO\_CHAR ( TRUNC ( oper.event\_dt

, 'MM' )

, 'MM' )

AS month\_mm

, TO\_CHAR ( TRUNC ( oper.event\_dt

, 'MM' )

, 'Month' )

AS month\_month

, TO\_CHAR ( TRUNC ( oper.event\_dt

, 'Q' )

, 'Q' )

AS quarter\_numb

, TO\_CHAR ( TRUNC ( oper.event\_dt

, 'YYYY' )

, 'YYYY' )

AS year\_numb

, oper.unit\_amount

, oper.total\_price\_dol

FROM cls\_operations oper)

GROUP BY ROLLUP ( year\_numb, quarter\_numb, ( month\_mm, month\_month ), week, ( day\_dd, day\_day ) )

ORDER BY year\_numb

, quarter\_numb

, month\_mm

, week

, day\_dd;

