WINDOW FUNCTIONS IN SQL

SQL Series Part 11

-Mayuri Dandekar

WINDOW FUNCTIONS

Window functions applies aggregate, ranking and analytic functions over a particular window (set of rows).

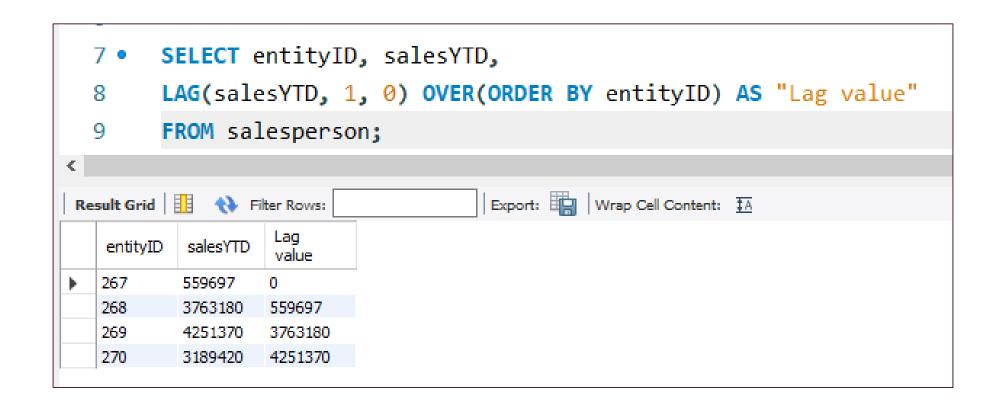
And **OVER clause** is used with window functions to define that window.

SYNTAX— SELECT column_name(s), fun() OVER ([<PARTITION BY Clause>] [<ORDER BY Clause>] [<ROW or RANGE Clause>]) FROM table_name;

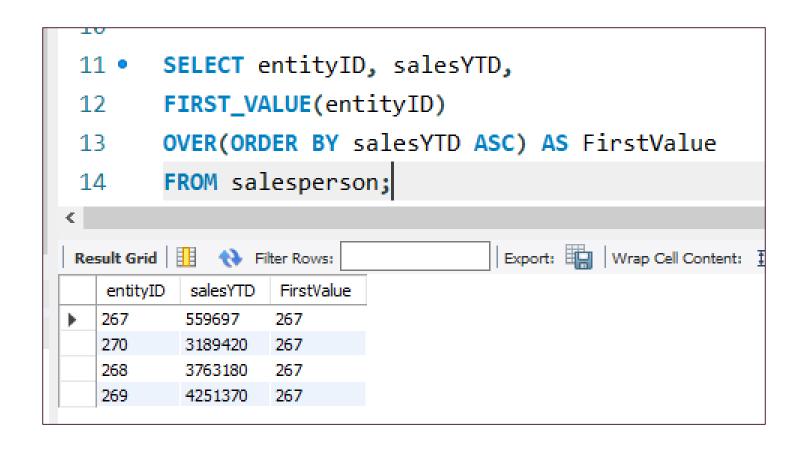
LEAD

```
SELECT entityID, salesYTD,
 3 🛭
       LEAD(salesYTD, 1, 0) OVER(ORDER BY entityID) AS "Lead value"
      FROM salesperson;
                                   Export: Wrap Cell Content: TA
Lead
  entityID
         salesYTD
                 value
  267
         559697
                3763180
                4251370
  268
         3763180
  269
         4251370
                3189420
  270
         3189420
                0
```

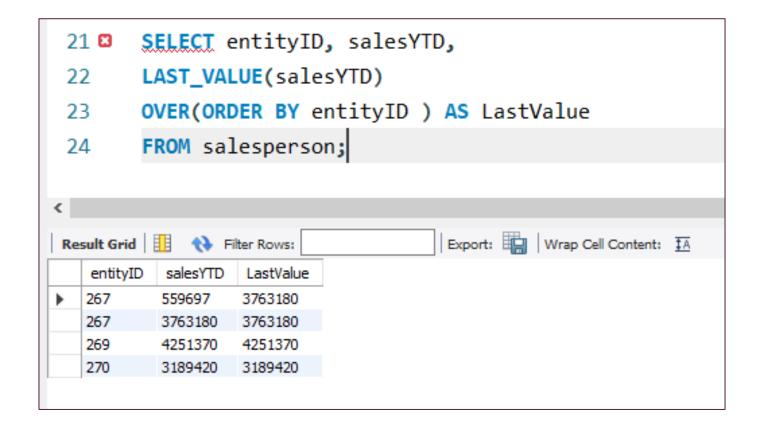
LAG



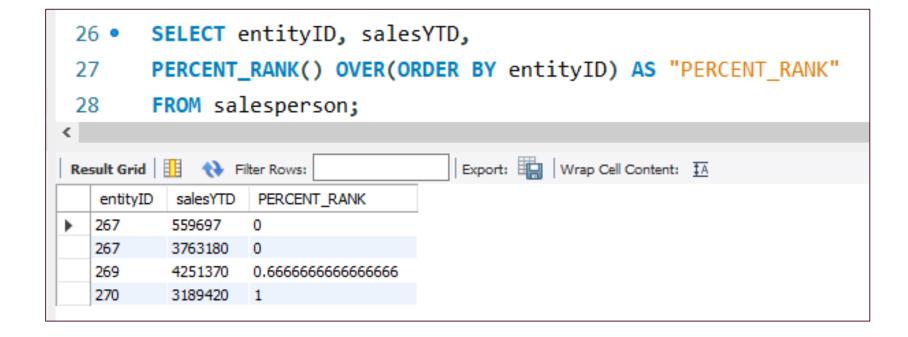
FIRST_VALUE



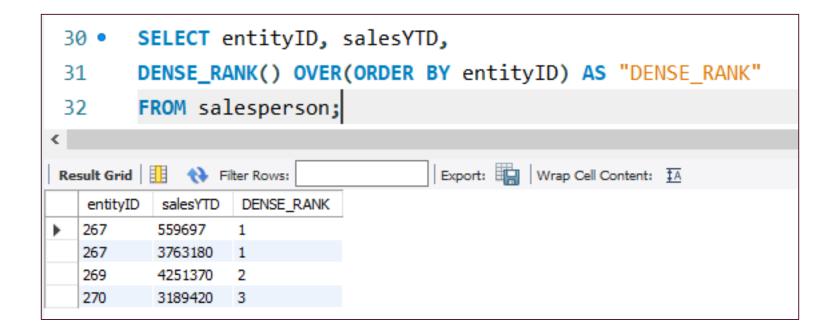
LAST_VALUE



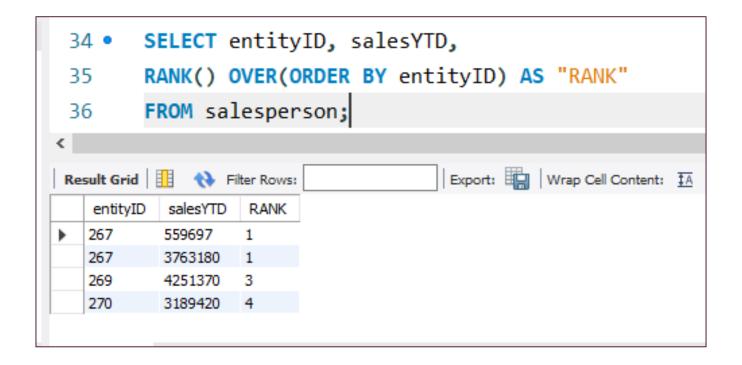
PERCENT_RANK



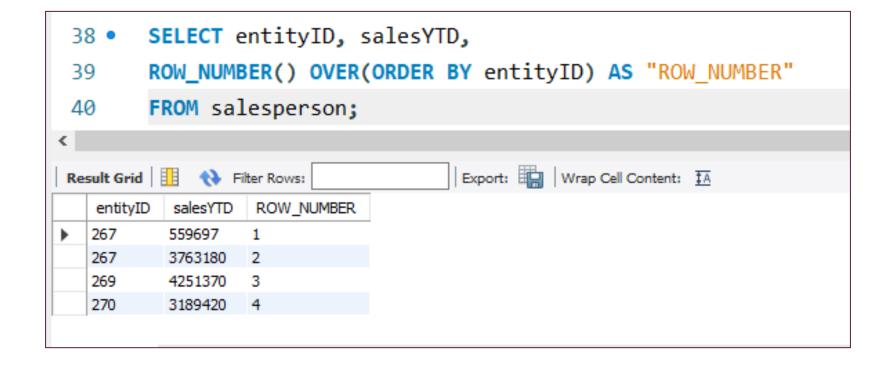
DENSE_RANK



RANK



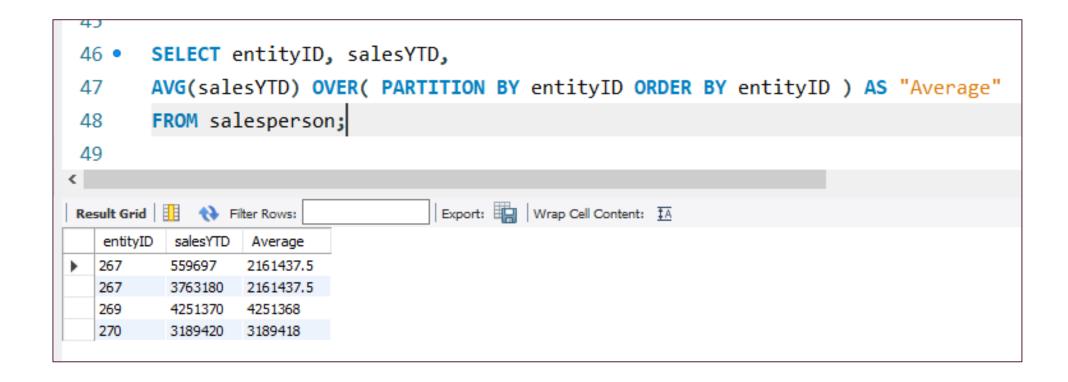
ROW_NUMBER



SUM



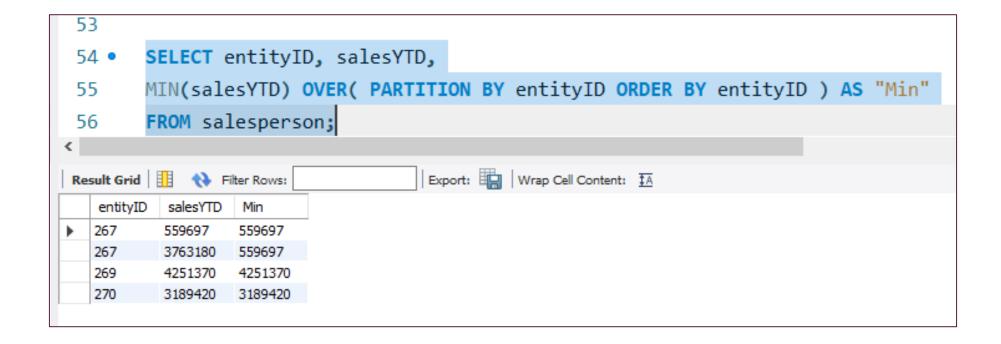
AVERAGE



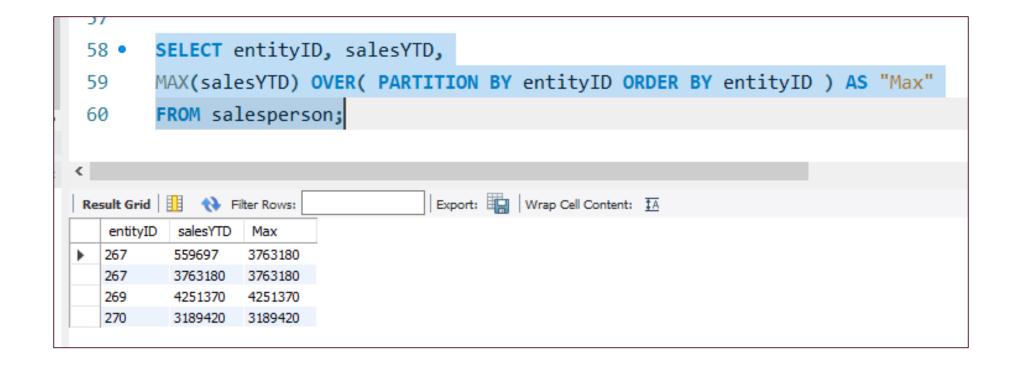
COUNT

```
SELECT entityID, salesYTD,
50 •
       COUNT(salesYTD) OVER( PARTITION BY entityID ORDER BY entityID ) AS "Count"
51
       FROM salesperson;
52
53
                                     Export: Wrap Cell Content: IA
Result Grid Filter Rows:
  entityID
         salesYTD
                 Count
  267
         559697
  267
         3763180
  269
         4251370
  270
         3189420
```

MIN



MAX



THANK YOU!!!

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