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IICS COMBO

RANK TRANSFORMATION

IN SQL > IICS CLOUD > POWER CENTER

AN ACTIVE , CONNECTED

Rank transformation is an active and connected transformation that performs the filtering of data based on group and ranks. for example, you want to get ten records of employees having highest salary, such kind of filtering can be done by rank transformation.

The Rank transformation selects the top or bottom range of data. Use the Rank transformation to return the largest or smallest numeric values in a group. You can also use the Rank transformation to return strings at the top or bottom of the mapping sort order.

For example, you can use a Rank transformation to select the top 10 customers by region. Or, you might identify the three departments with the lowest expenses in salaries and overhead.

RANKS CONCEPT IN SQL

ANALTYCAL FUNCTIONS

RANK , DENSE RANK , ROW NUMBERS , LEAD , LAG

INTERVIEWS : 1ST HIGHEST RANK SALARY , 2ND HIGHEST RANK SALARY

TOP 10 SALES VALUE

SALES VALUE	SALES VALUE	Row_number	RANK()	DENSE_RANK()
30000	90000	1	1	1
15000	60000	2	2	2
20000	46000	3	3	3
15000	40000	4	4	4
20000	40000	5	5	5
35000	40000	6	5	5
32000	38000	7	7	6
20000	35000	8	8	7
12000	35000	9	8	7
60000	34000	10	10	8

STIPEND / SALARY /SALES VALUE RANK

RANK

```
SELECT STUDENT_ID,FIRST_NAME , STIPEND ,COORDINATOR_ID,
RANK()OVER(ORDER BY STIPEND)RANK FROM STUDENTS;

SELECT STUDENT_ID,FIRST_NAME , STIPEND ,COORDINATOR_ID,
RANK()OVER(ORDER BY STIPEND DESC)RANK FROM STUDENTS;
```

SALES VALUE

```
SELECT SALES_EX_ID,FIRST_NAME , SALES_VALUE ,COORDINATOR_ID,
RANK()OVER(ORDER BY SALES_VALUE )RNK FROM SALES_EXECUTIVES;

SELECT SALES_EX_ID,FIRST_NAME , SALES_VALUE ,COORDINATOR_ID,
RANK()OVER(ORDER BY SALES_VALUE DESC )RNK FROM SALES_EXECUTIVES;
```

DENSE_RANK

```
SELECT SALES_EX_ID,FIRST_NAME , SALES_VALUE ,COORDINATOR_ID,
DENSE_RANK()OVER(ORDER BYSALES_VALUE)RNK FROM
SALES_EXECUTIVES;

SELECT SALES_EX_ID,FIRST_NAME , SALES_VALUE ,COORDINATOR_ID,
DENSE_RANK()OVER(ORDER BY SALES_VALUE DESC )RNK FROM
SALES_EXECUTIVES;
```

ROW_NUMBER

```
SELECT SALES_EX_ID,FIRST_NAME , SALES_VALUE ,COORDINATOR_ID,
ROW_NUMBER()OVER(ORDER BY SALES_VALUE )RNK FROM SALES_EXECUTIVES;
```

```
SELECT SALES_EX_ID,FIRST_NAME , SALES_VALUE ,COORDINATOR_ID,
ROW_NUMBER()OVER(ORDER BY SALES_VALUE DESC )RNK FROM SALES_EXECUTIVES;
```

DEPARTMENT_WISE / RANK

ANYALTICAL FUNCTION

GROUP BY > > > PARTITION BY

```
SELECT SALES_EX_ID,FIRST_NAME , SALES_VALUE ,COORDINATOR_ID,
RANK()OVER(PARTITION BY COORDINATOR_ID ORDER BY SALES_VALUE) RNK FROM SALES_EXECUTIVES;
```

```
SELECT SALES_EX_ID,FIRST_NAME , SALES_VALUE ,COORDINATOR_ID,
RANK ()OVER(PARTITION BY COORDINATOR_ID ORDER BY SALES_VALUE DESC ) RNK FROM SALES_EXECUTIVES;
```

TOP 5 RANKINGS

```
SELECT SALES_EX_ID,FIRST_NAME , SALES_VALUE ,COORDINATOR_ID,
RANK()OVER(ORDER BY SALES_VALUE DESC )
RNK FROM SALES_EXECUTIVES WHERE RNK < = 5;
```

ERROR ; RNK IS NOT A PHYSICAL COLUMN

SUB QUERY CONCEPT

```
SELECT * FROM (SELECT SALES_EX_ID,FIRST_NAME , SALES_VALUE ,COORDINATOR_ID,
RANK()OVER(ORDER BY SALES_VALUE DESC )
RNK FROM SALES_EXECUTIVES) WHERE RNK < = 5;
```

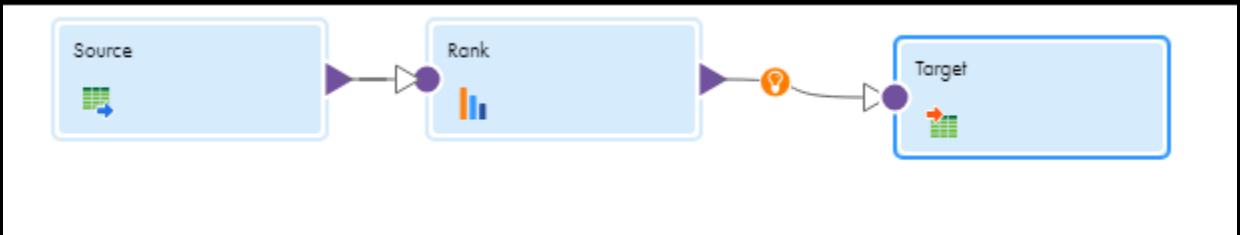
TOP 1ST SALES VALUE

```
SELECT * FROM (SELECT SALES_EX_ID,FIRST_NAME , SALES_VALUE ,COORDINATOR_ID,
RANK()OVER(ORDER BY SALES_VALUE DESC )
RNK FROM SALES_EXECUTIVES) WHERE RNK = 1;
```

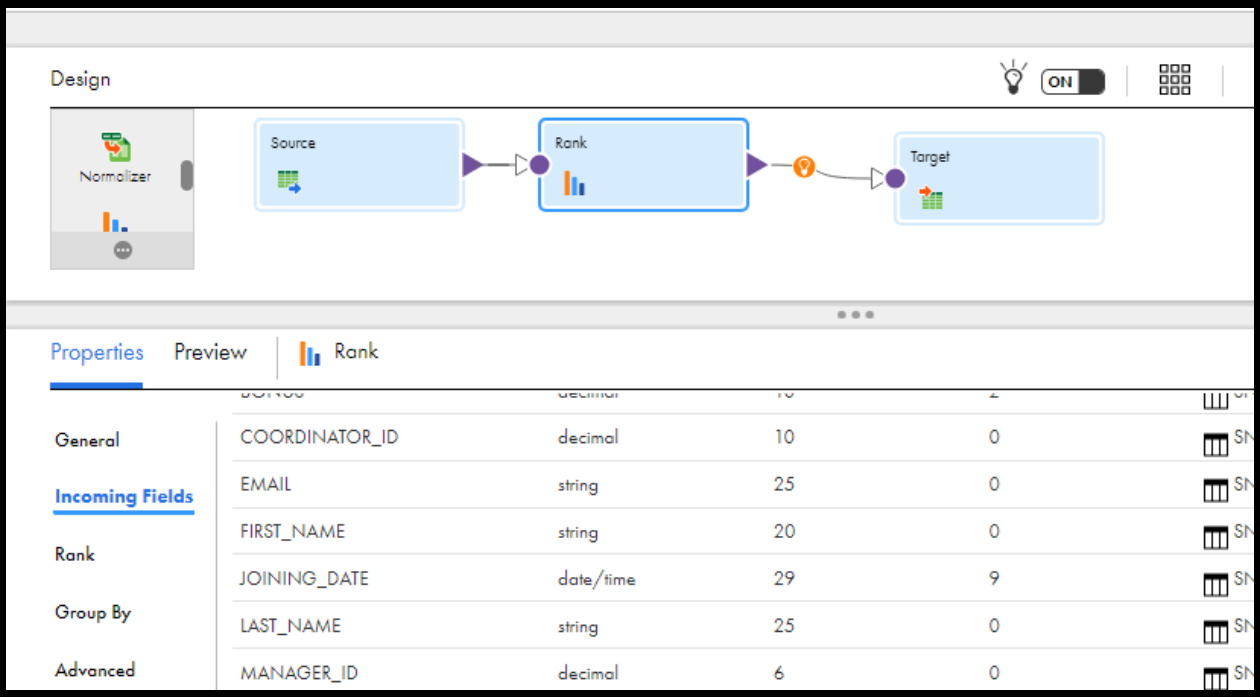
TOP 1ST SALES VALUE DEP / COORD WISE

```
SELECT * FROM (SELECT SALES_EX_ID,FIRST_NAME , SALES_VALUE ,COORDINATOR_ID,
RANK()OVER(PARTITION BY COORDINATOR_ID ORDER BY SALES_VALUE DESC )
RNK FROM SALES_EXECUTIVES) WHERE RNK = 1;
```

RANK IN IICS CLOUD



GO TO INCOING FIELDS



GO TO RANK

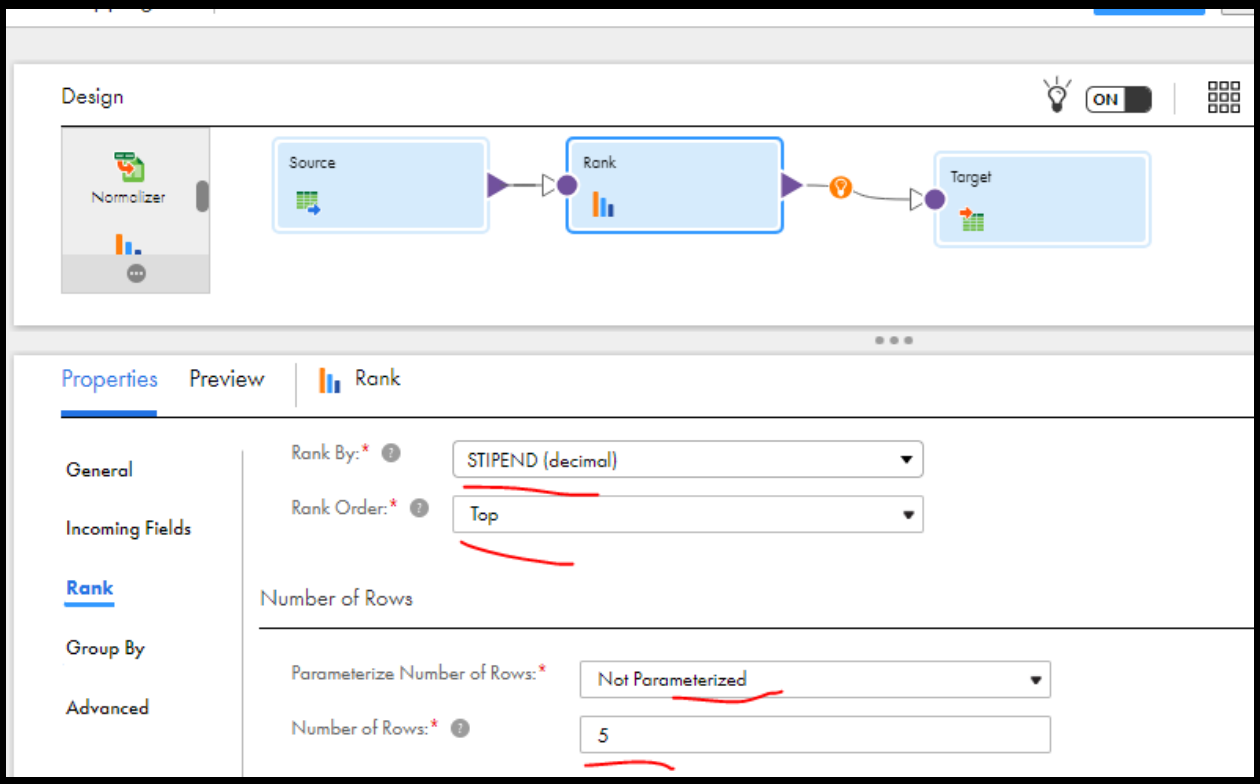
YOU CAN SELECT WHICH COLUMN TO RANK

HERE STIPEND

THAN TOP OR BOTTOM - TOP

NUMBER OF ROWS WHICH RANK SO TOP 5

OK



YOU CAN DO RANKING ONLY FOR ONE FIELD

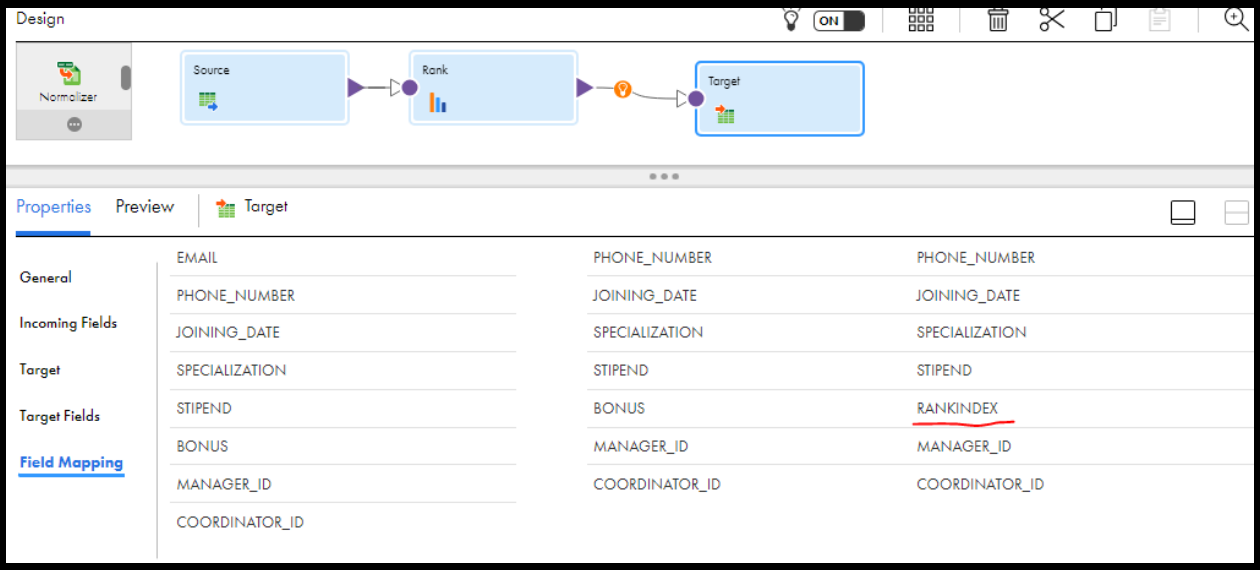
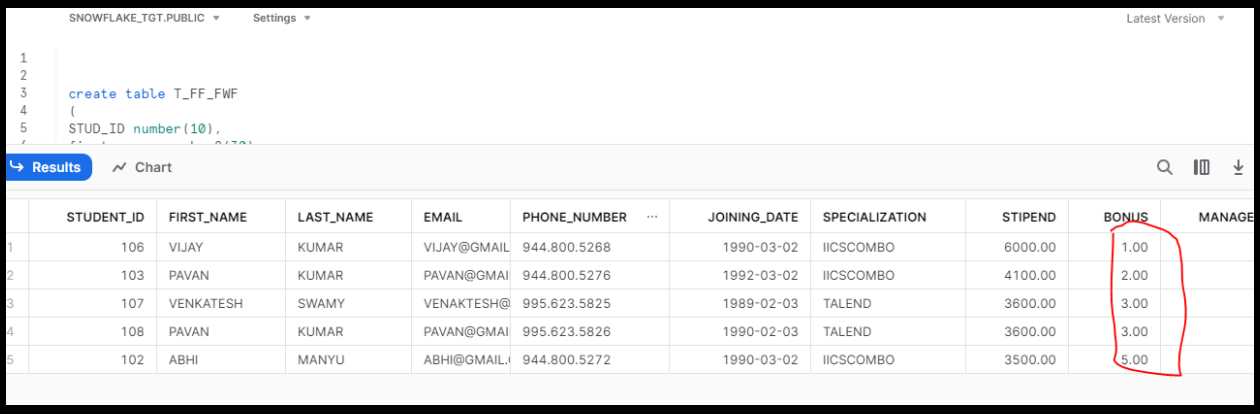
COME TO GROUP BY

AS OF NOW I AM NOT DOING ANY GROUP BY

THAN GO TO ADVANCED

GO TO TARGET

CONNECT RANK INDEX TO BONUS



SNOWFLAKE