

CALL/WHATSAPP - 8970853557 / 9448005273

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

ANALYTICAL 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 BY SALES_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

ANALYTICAL 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;
```

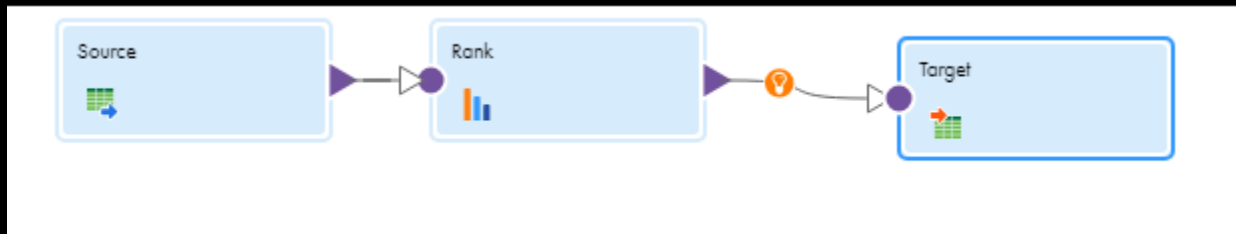
TOP 1ST SALES VALUE

```
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 INCOMING FIELDS

Design

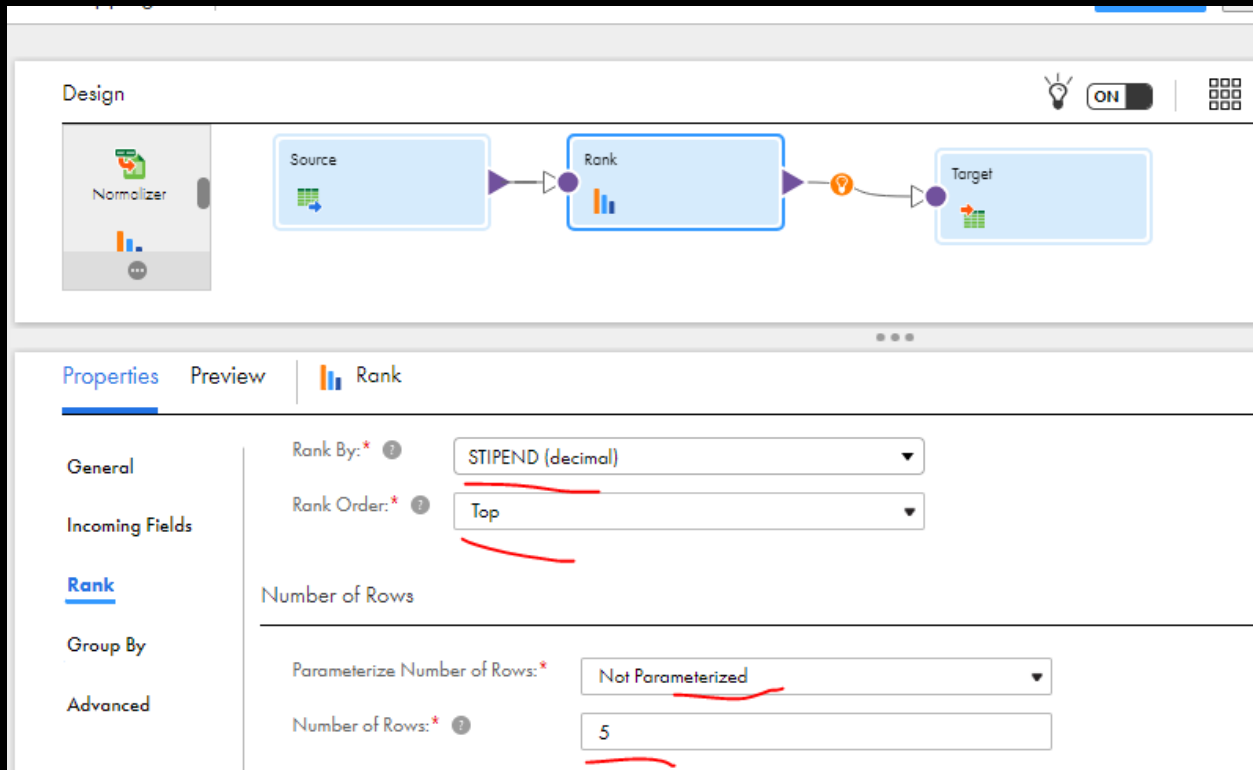
The screenshot shows the IICS Cloud interface. At the top, there's a 'Design' tab with a lightbulb icon and an 'ON' toggle. Below this, a pipeline is visible with 'Source', 'Rank', and 'Target' connectors. The 'Rank' connector is selected, and its properties are shown in the 'Properties' pane on the left. The 'Incoming Fields' tab is active, displaying a table of fields.

Field Name	Field Type	Field Length	Field Scale	Field Format
COORDINATOR_ID	decimal	10	0	
EMAIL	string	25	0	
FIRST_NAME	string	20	0	
JOINING_DATE	date/time	29	9	
LAST_NAME	string	25	0	
MANAGER_ID	decimal	6	0	

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

Design

Source → Rank → Target

Properties Preview Target

General

Incoming Fields

Target

Target Fields

Field Mapping

EMAIL	PHONE_NUMBER	PHONE_NUMBER
PHONE_NUMBER	JOINING_DATE	JOINING_DATE
JOINING_DATE	SPECIALIZATION	SPECIALIZATION
SPECIALIZATION	STIPEND	STIPEND
STIPEND	BONUS	<u>RANKINDEX</u>
BONUS	MANAGER_ID	MANAGER_ID
MANAGER_ID	COORDINATOR_ID	COORDINATOR_ID
COORDINATOR_ID		

SNOWFLAKE

SNOWFLAKE_TGT_PUBLIC Settings Latest Version

```
1
2
3 create table T_FF_FWF
4 (
5   STUD_ID number(10),
6   ...
```

Results Chart

	STUDENT_ID	FIRST_NAME	LAST_NAME	EMAIL	PHONE_NUMBER	...	JOINING_DATE	SPECIALIZATION	STIPEND	BONUS	MANAGE
1	106	VIJAY	KUMAR	VIJAY@GMAIL	944.800.5268		1990-03-02	IICSCOMBO	6000.00	1.00	
2	103	PAVAN	KUMAR	PAVAN@GMAIL	944.800.5276		1992-03-02	IICSCOMBO	4100.00	2.00	
3	107	VENKATESH	SWAMY	VENAKTESH@	995.623.5825		1989-02-03	TALEND	3600.00	3.00	
4	108	PAVAN	KUMAR	PAVAN@GMAIL	995.623.5826		1990-02-03	TALEND	3600.00	3.00	
5	102	ABHI	MANYU	ABHI@GMAIL	944.800.5272		1990-03-02	IICSCOMBO	3500.00	5.00	

the 1990s, the number of people in the UK who are employed in the public sector has increased by 1.5 million (from 2.5 million in 1980 to 4 million in 1995). The public sector has become a major employer in the UK, and its growth has been a major factor in the overall growth of the economy.

The public sector has also become a major provider of social services, and its growth has been a major factor in the overall growth of the economy. The public sector has become a major provider of social services, and its growth has been a major factor in the overall growth of the economy.

The public sector has also become a major provider of social services, and its growth has been a major factor in the overall growth of the economy. The public sector has become a major provider of social services, and its growth has been a major factor in the overall growth of the economy.

The public sector has also become a major provider of social services, and its growth has been a major factor in the overall growth of the economy. The public sector has become a major provider of social services, and its growth has been a major factor in the overall growth of the economy.

The public sector has also become a major provider of social services, and its growth has been a major factor in the overall growth of the economy. The public sector has become a major provider of social services, and its growth has been a major factor in the overall growth of the economy.

The public sector has also become a major provider of social services, and its growth has been a major factor in the overall growth of the economy. The public sector has become a major provider of social services, and its growth has been a major factor in the overall growth of the economy.

The public sector has also become a major provider of social services, and its growth has been a major factor in the overall growth of the economy. The public sector has become a major provider of social services, and its growth has been a major factor in the overall growth of the economy.

The public sector has also become a major provider of social services, and its growth has been a major factor in the overall growth of the economy. The public sector has become a major provider of social services, and its growth has been a major factor in the overall growth of the economy.

The public sector has also become a major provider of social services, and its growth has been a major factor in the overall growth of the economy. The public sector has become a major provider of social services, and its growth has been a major factor in the overall growth of the economy.