

TABLE			
A	B	C	D
A1	B1	X1	10
A1	B1	X2	10
A1	B2	X3	30
A1	B2	X4	20
A2	B1	X5	40
A2	B1	X6	60
A2	B2	X7	50
A2	B2	X8	80

COMMAND	DESCRIPTION	QUERY	RESULT OF THE QUERY				
COUNT()	Let's try counting the number of records at the level of A	Hover Mouse to See Query [1]	A	B	C	D	CNT
			A1	B1	X1	10	4
			A1	B1	X2	10	4
			A1	B2	X3	30	4
			A1	B2	X4	20	4
			A2	B1	X5	40	4
			A2	B1	X6	60	4
			A2	B2	X7	50	4
			A2	B2	X8	80	4
SUM()	Let's try to sum D at the level of A and B	Hover Mouse to See Query [2]	A	B	C	D	SUM
			A1	B1	X1	10	20
			A1	B1	X2	10	20
			A1	B2	X3	30	50
			A1	B2	X4	20	50
			A2	B1	X5	40	100
			A2	B1	X6	60	100
			A2	B2	X7	50	130
			A2	B2	X8	80	130
ROW_NUMBER()	Adds a row number at the level and order specified. Let's add row numbers at the level of A and order by D in the descending order.	Hover Mouse to See Query [3]	A	B	C	D	ROWNUM
			A1	B2	X3	30	1
			A1	B2	X4	20	2
			A1	B1	X1	10	3
			A1	B1	X2	10	4
			A2	B2	X8	80	1
			A2	B1	X6	60	2
			A2	B1	X5	50	3
			A2	B2	X7	40	4
RANK()	Adds a rank at the level and order specified. Let's add row numbers at the level of A and order by D in the ascending order.	Hover Mouse to See Query [4]	A	B	C	D	RNK
			A1	B1	X1	10	1
			A1	B1	X2	10	1
			A1	B2	X4	20	3
			A1	B2	X3	30	4
			A2	B1	X5	40	1
			A2	B2	X7	50	2
			A2	B1	X6	60	3
			A2	B2	X8	80	4
DENSE_RANK()	Adds a dense rank at the level and order specified. Let's add row numbers at the level of A and order by D in the ascending order.	Hover Mouse to See Query [5]	A	B	C	D	D_RANK
			A1	B1	X1	10	1
			A1	B1	X2	10	1
			A1	B2	X4	20	2
			A1	B2	X3	30	3
			A2	B1	X5	40	1
			A2	B2	X7	50	2
			A2	B1	X6	60	3
			A2	B2	X8	80	4

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[1] SELECT
    A,
    B,
    C,
    D,
    COUNT(*) OVER (PARTITION BY A) AS CNT
FROM TABLE;
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```
[2] SELECT
    A,
    B,
    C,
    D,
    SUM(D) OVER (PARTITION BY A, B) AS SUM
FROM TABLE;
```

```
[3] SELECT
    A,
    B,
    C,
    D,
    ROW_NUMBER() OVER (PARTITION BY A ORDER BY D DESC) AS ROWNUM
FROM TABLE;
```

```
[4] SELECT
    A,
    B,
    C,
    D,
    RANK() OVER (PARTITION BY A ORDER BY D ASC) AS RNK
FROM TABLE;
```

```
[5] SELECT
    A,
    B,
```

```
C,  
D,  
DENSE_RANK() OVER (PARTITION BY A ORDER BY D ASC) AS D_RNK  
FROM TABLE;
```