MAXIMUM:

```
1    select MAX(MARKS)
2    FROM STU;
```

```
select MAX(MARKS) FROM STU
```

MAX(MARKS)
100

COUNT:

```
1    select COUNT(MARKS)
2    FROM STU;
```

```
select COUNT(MARKS) FROM STU
```

COUNT(MARKS)
6

MINIMUM:

```
1    SELECT MIN(MANAGERID)
2    FROM EMPO;
```

```
SELECT MIN(MANAGERID) FROM EMPO
```

MIN(MANAGERID)
17

SUM:

```
1    SELECT SUM(MARKS)
2    FROM STU;
```

```
SELECT SUM(MARKS) FROM STU
```

SUM(MARKS)
570

AVERAGE:

```
1   SELECT AVG(MARKS)
2   FROM STU;
3
```

```
SELECT AVG(MARKS) FROM STU
```

AVG(MARKS)
95

Statement processed 0.01 seconds

ROUND:

```
1   SELECT ROUND(MARKS)
2   FROM STU;
3
```

```
SELECT ROUND(MARKS) FROM STU
```

ROUND(MARKS)
90
99
89
92
100
100

VERIANCE:

```
SELECT ROUND(VARIANCE(MARKS),4)
FROM STU;
```

```
SELECT ROUND(VARIANCE(MARKS),4) FROM STU
```
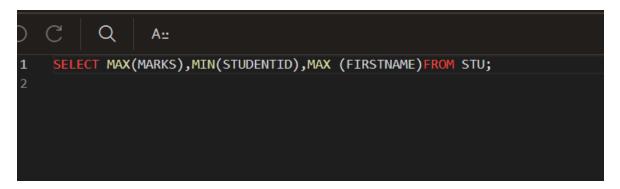
ROUND(VARIANCE(MARKS),4)
27.2

STD:

```
1    SELECT ROUND(STDDEV(MARKS),4)
2    FROM STU;
3
```

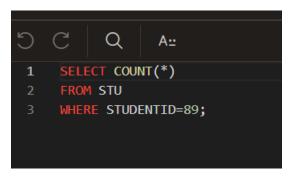SELECT ROUND(STDDEV(MARKS),4) FROM STU

ROUND(STDDEV(MARKS),4)
5.2154

MULTIPLE:

```
1    SELECT MAX(MARKS),MIN(STUDENTID),MAX (FIRSTNAME)FROM STU;
2
```

SELECT MAX(MARKS),MIN(STUDENTID),MAX (FIRSTNAME)FROM STU

MAX(MARKS)	MIN(STUDENTID)	MAX(FIRSTNAME)
100	12	yuvraj

Statement processed. 0.00 seconds

COUNT ROWS:

```
1    SELECT COUNT(*)
2    FROM STU
3    WHERE STUDENTID=89;
```

SELECT COUNT(*) FROM STU WHERE STUDENTID=89

COUNT(*)
1

DISTINCT:

```
1   SELECT DISTINCT MARKS
2   FROM STU
```

SELECT DISTINCT MARKS FROM STU

	MARKS
99	
90	
89	
92	
100	

DISTINCT SUM:

```
SELECT SUM(DISTINCT MARKS)
FROM STU
```

SELECT SUM(DISTINCT MARKS) FROM STU

	SUM(DISTINCTMARKS)
470	

DISTINCT COUNT:

```
1   SELECT COUNT(DISTINCT MARKS)
2   FROM STU
```

SELECT COUNT(DISTINCT MARKS) FROM STU

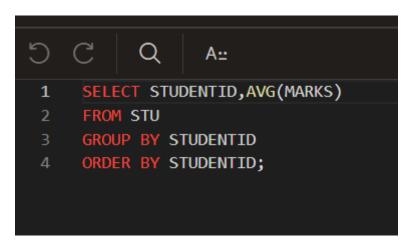|	COUNT(DISTINCTMARKS)
5	

AVG NULL VALUES:

```
1    SELECT AVG(NVL(MARKS,0))
2    FROM STU
```

```
SELECT AVG(NVL(MARKS,0))   FROM STU


95
```

GROUP BY USE:

```
1    SELECT STUDENTID,AVG(MARKS)
2    FROM STU
3    GROUP BY STUDENTID
4    ORDER BY STUDENTID;
```

SELECT STUDENTID,AVG(MARKS) FROM STU GROUP BY STUDENTID ORDER BY STUDENTID

STUDENTID	AVG(MARKS)
12	92
18	99
45	100
63	89
89	100
99	90

COUNT BY GROUP:

```
1    SELECT STUDENTID,COUNT(MARKS)
2    FROM STU
3    GROUP BY STUDENTID
4    ORDER BY STUDENTID;
```

```
SELECT STUDENTID,COUNT(MARKS) FROM STU GROUP BY STUDENTID ORDER BY STUDENTID
```

STUDENTID	COUNT(MARKS)
12	1
18	1
45	1
63	1
89	1
99	1

WHERE CLAUSE:

```
1    SELECT STUDENTID,MAX(MARKS)
2    FROM STU
3    WHERE FIRSTNAME!='ROHIT'
4    GROUP BY STUDENTID
```
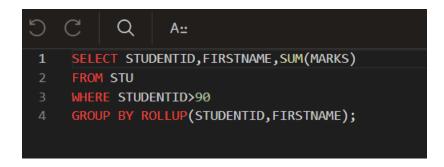
```
SELECT STUDENTID,MAX(MARKS) FROM STU WHERE FIRSTNAME!='ROHIT' GROUP BY STUDENTID
```

STUDENTID	MAX(MARKS)
99	90
63	89
12	92
18	99
89	100

HAVING STATEMENT:

```
1    SELECT STUDENTID,AVG(MARKS)
2    FROM STU
3    GROUP BY STUDENTID
4    HAVING MIN(MARKS)>80
5    ORDER BY STUDENTID;
```

```
SELECT STUDENTID,AVG(MARKS) FROM STU GROUP BY STUDENTID HAVING MIN(MARKS)>80 ORDER BY STUDENTID
```

STUDENTID	AVG(MARKS)
12	92
18	99
45	100
63	89
89	100
99	90

ROLLUP THE TABLE:

```
1    SELECT STUDENTID,FIRSTNAME,SUM(MARKS)
2    FROM STU
3    WHERE STUDENTID>90
4    GROUP BY ROLLUP(STUDENTID,FIRSTNAME);
```

```
SELECT STUDENTID,FIRSTNAME,SUM(MARKS) FROM STU WHERE STUDENTID>90 GROUP BY
ROLLUP(STUDENTID,FIRSTNAME)
```

STUDENTID	FIRSTNAME	SUM(MARKS)
99	GOUTHAM	90
99	-	90
-	-	90

CUBE:

```
1    SELECT STUDENTID,FIRSTNAME,SUM(MARKS)
2    FROM STU
3    WHERE STUDENTID>90
4    GROUP BY CUBE(STUDENTID,FIRSTNAME);
```

```
SELECT STUDENTID,FIRSTNAME,SUM(MARKS) FROM STU WHERE STUDENTID>90 GROUP BY CUBE(STUDENTID,FIRSTNAME)
```

STUDENTID	FIRSTNAME	SUM(MARKS)
-	-	90
-	GOUTHAM	90
99	-	90
99	GOUTHAM	90

UNION:

```
1   SELECT DEPARTMENTID
2   FROM EMPO
3   UNION
4   SELECT DEPARTMENTID
5   FROM EMPLOYEE;
```

```
SELECT DEPARTMENTID FROM EMPO UNION SELECT DEPARTMENTID FROM EMPLOYEE
```

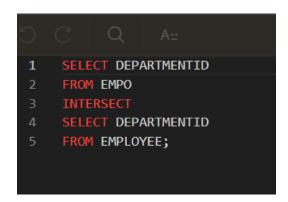| DEPARTMENTID |
|---|
| 70 |
| 80 |
| 82 |
| 88 |
| 89 |
| 90 |
| 99 |
| 5068 |
| 8182 |
| 8888 |
| 9989 |

UNION ALL:

```
1   SELECT DEPARTMENTID
2   FROM EMPO
3   UNION ALL
4   SELECT DEPARTMENTID
5   FROM EMPLOYEE;
```

```
SELECT DEPARTMENTID FROM EMPO UNION ALL SELECT DEPARTMENTID FROM EMPLOYEE
```

DEPARTMENTID
89
99
82
88
9989
5068
8182
8888
89
90
80
70

INTERSECTION:

```
1    SELECT DEPARTMENTID
2    FROM EMPO
3    INTERSECT
4    SELECT DEPARTMENTID
5    FROM EMPLOYEE;
```

```
SELECT DEPARTMENTID FROM EMPO INTERSECT SELECT DEPARTMENTID FROM EMPLOYEE
```

DEPARTMENTID
89

MINUS:

```
SELECT DEPARTMENTID
FROM EMPO
MINUS
SELECT DEPARTMENTID
FROM EMPLOYEE;
```
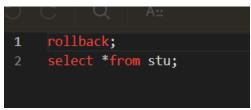
SELECT DEPARTMENTID FROM EMPO MINUS SELECT DEPARTMENTID FROM EMPLOYEE

DEPARTMENTID
82
88
99
5068
8182
8888
9989

SET OPERATION:

```
1    SELECT DEPARTMENTID,NAME,MANAGERID
2    FROM EMPO
3    UNION
4    SELECT STUDENTID,FIRSTNAME,MARKS
5    FROM STU;
```

```
SELECT DEPARTMENTID,NAME,MANAGERID FROM EMPO UNION SELECT STUDENTID,FIRSTNAME,MARKS FROM STU
```

DEPARTMENTID	NAME	MANAGERID
12	yuvraj	92
18	VIRAT	99
45	ROHIT	100
63	surya	89
82	mike	8182
88	goutham	8888
89	TEJU	100
89	mahesh	9989
99	GOUTHAM	90
99	tej	5068
5068	sai	17
8182	rohit	37
8888	surya	33
9989	kumar	19

Rollback:

```
1   rollback;
2   select *from stu;
```

select *from stu

STUDENTID	FIRSTNAME	LASTNAME	MARKS
99	GOUTHAM	NANDHA	90
18	VIRAT	KOHLI	99
63	surya	sky	89
12	yuvraj	singh	92
45	ROHIT	SHARMA	100
89	TEJU	B	100

6 rows selected. 0.00 seconds