

Sorting functions in SQL

Operator	Description
Group By	groups rows that have the same values into summary rows
Having	places condition on group created by the GROUP BY clause
Top	used to specify the number of records to return
Last	returns the last value of the selected column.
Limit	used to set an upper limit on the number of tuples returned
	by SQL



Group by

CUSTOMERS

ID	NAME	AGE	ADDRESS	SALARY
1	Ramesh	32	Ahmedabad	2000.00
2	Ramesh	25	Delhi	1500.00
3	kaushik	23	Kota	2000.00
4	kaushik	25	Mumbai	6500.00
5	Hardik	27	Bhopal	8500.00
6	Komal	22	MP	4500.00
7	Muffy	24	Indore	10000.00

Query

```
SELECT NAME, SUM(SALARY)
FROM CUSTOMERS
GROUP BY NAME
```

Output

NAME	SUM(SALARY)
Hardik	8500.00
kaushik	8500.00
Komal	4500.00
Muffy	10000.00
Ramesh	3500.00



Having

EMPLOYEES

Emp_Id	Emp_Name	Emp_Salary	Emp_City
201	Abhay	2000	Goa
202	Ankit	4000	Delhi
203	Bheem	8000	Jaipur
204 Ram	2000	Goa	
205	Sumit	9000	Delhi

Query

```
SELECT SUM(Emp_Salary), Emp_City  
FROM Employee  
GROUP BY Emp_City  
HAVING SUM(Emp_Salary)>5000
```

Output

SUM(Emp_Salary)	Emp_City
9000	Delhi
8000	Jaipur



Top

CUSTOMERS

ID	NAME	AGE	ADDRESS	SALARY
1	Ramesh	32	Ahmedabad	2000.00
2	Ramesh	25	Delhi	1500.00
3	kaushik	23	Kota	2000.00
4	kaushik	25	Mumbai	6500.00
5	Hardik	27	Bhopal	8500.00
6	Komal	22	MP	4500.00
7	Muffy	24	Indore	10000.00

Query

```
SELECT TOP 3 *  
FROM CUSTOMERS
```

Output

ID	NAME	AGE	ADDRESS	SALARY
1	Ramesh	32	Ahmedabad	2000.00
2	Khilan	25	Delhi	1500.00
3	kaushik	23	Kota	2000.00



Last

Query

```
SELECT LAST(OrderPrice) AS LastOrderPrice  
FROM Orders
```

Orders

O_Id	OrderDate	OrderPrice	Customer
1	2008/11/12	1000	Hansen
2	2008/10/23	1600	Nilsen
3	2008/09/02	700	Hansen
4	2008/09/03	300	Hansen
5	2008/08/30	2000	Jensen
6	2008/10/04	100	Nilsen

Output

LastOrderPrice

100



Limit

CUSTOMERS

ID	NAME	AGE	ADDRESS	SALARY
1	Ramesh	32	Ahmedabad	2000.00
2	Khilan	25	Delhi	1500.00
3	kaushik	23	Kota	2000.00
4	Chaitali	25	Mumbai	6500.00
5	Hardik	27	Bhopal	8500.00
6	Komal	22	MP	4500.00
7	Muffy	24	Indore	10000.00

Query

```
SELECT * FROM CUSTOMERS  
LIMIT 3;
```

Output

ID	NAME	AGE	ADDRESS	SALARY
1	Ramesh	32	Ahmedabad	2000.00
2	Khilan	25	Delhi	1500.00
3	kaushik	23	Kota	2000.00

