



```
mysql> delete from student where name = 'san';  
Query OK, 1 row affected (0.01 sec)
```

```
mysql> select * from student;
```

name	id	address	marks
sania	12	hyd	78
conrad	24	paris	99
charles	34	monaco	16
carlos	35	hyd	55
virat	45	uk	18

```
5 rows in set (0.00 sec)
```

```
mysql> select sum(marks) from student;
```

sum(marks)
266

```
1 row in set (0.00 sec)
```

```
mysql> select avg(marks) from students;
```

```
ERROR 1146 (42S02): Table 'nit.students' doesn't exist
```

```
mysql> select avg(marks) from student;
```

avg(marks)
53.2000

```
1 row in set (0.00 sec)
```

```
mysql> select count(name) from student;
```

count(name)

```
mysql> select count(name) from student;
```

```
+-----+  
| count(name) |  
+-----+  
|          5 |  
+-----+
```

```
1 row in set (0.00 sec)
```

```
mysql> select max(marks) from student;
```

```
+-----+  
| max(marks) |  
+-----+  
|          99 |  
+-----+
```

```
1 row in set (0.00 sec)
```

```
mysql> select min(marks) from student;
```

```
+-----+  
| min(marks) |  
+-----+  
|          16 |  
+-----+
```

```
1 row in set (0.00 sec)
```

```
mysql> select * from student order by marks;
```

```
+-----+-----+-----+-----+  
| name   | id   | address | marks |  
+-----+-----+-----+-----+  
| charles | 34   | monaco  | 16    |  
| virat   | 45   | uk      | 18    |  
| carlos  | 35   | hyd     | 55    |  
| sania   | 12   | hyd     | 78    |  
| conrad  | 24   | paris   | 99    |  
+-----+-----+-----+-----+
```

```
5 rows in set (0.00 sec)
```



```
mysql> select * from student order by marks desc;
```

name	id	address	marks
conrad	24	paris	99
sania	12	hyd	78
carlos	35	hyd	55
virat	45	uk	18
charles	34	monaco	16

```
5 rows in set (0.00 sec)
```

```
mysql> select * from student where name like 's%';
```

name	id	address	marks
sania	12	hyd	78

```
1 row in set (0.00 sec)
```

```
mysql> select * from student where name like 'c%';
```

name	id	address	marks
conrad	24	paris	99
charles	34	monaco	16
carlos	35	hyd	55

```
3 rows in set (0.00 sec)
```

```
mysql> select * from student where name like 'y%';
```

```
Empty set (0.00 sec)
```



```
mysql> select * from student where name like '%s';
```

name	id	address	marks
charles	34	monaco	16
carlos	35	hyd	55

```
2 rows in set (0.00 sec)
```

```
mysql> select * from student where name like '_s%';
```

```
Empty set (0.00 sec)
```

```
mysql> select * from student where name like '_a%';
```

name	id	address	marks
sania	12	hyd	78
carlos	35	hyd	55

```
2 rows in set (0.00 sec)
```

```
mysql> select * from student where name like 'a%_';
```

```
Empty set (0.00 sec)
```

```
mysql> select * from student where name like '%a_';
```

name	id	address	marks
conrad	24	paris	99
virat	45	uk	18

```
2 rows in set (0.00 sec)
```

```
mysql> create table emp(id int not null primary key,salary int,empcode int)
Query OK, 0 rows affected (0.04 sec)
```



```
mysql> create table emp(id int not null primary key,salary int,empcode int , name varchar(30));  
Query OK, 0 rows affected (0.04 sec)
```

```
mysql> insert into emp values(12,20000,102,'Aman'),(24,60000,104,'pat'),(34,30000,105,'max'),(35,25000,103,'oscar'),(45,90000,106,'ABD');
```

```
Query OK, 5 rows affected (0.02 sec)
```

```
Records: 5 Duplicates: 0 Warnings: 0
```

```
mysql> select * from emp;
```

id	salary	empcode	name
12	20000	102	Aman
24	60000	104	pat
34	30000	105	max
35	25000	103	oscar
45	90000	106	ABD

```
5 rows in set (0.00 sec)
```

```
mysql> select * from student;
```

name	id	address	marks
sania	12	hyd	78
conrad	24	paris	99
charles	34	monaco	16
carlos	35	hyd	55



```
mysql> select * from student;
```

name	id	address	marks
sania	12	hyd	78
conrad	24	paris	99
charles	34	monaco	16
carlos	35	hyd	55
virat	45	uk	18

```
5 rows in set (0.00 sec)
```

```
mysql> select * from student inner join emp on student.id = emp=id;  
ERROR 1054 (42S22): Unknown column 'emp' in 'on clause'
```

```
mysql> select * from student inner join emp on student.id = emp.id;
```

name	id	address	marks	id	salary	empcode	name
sania	12	hyd	78	12	20000	102	Aman
conrad	24	paris	99	24	60000	104	pat
charles	34	monaco	16	34	30000	105	max
carlos	35	hyd	55	35	25000	103	oscar
virat	45	uk	18	45	90000	106	ABD

```
5 rows in set (0.00 sec)
```

```
mysql> select * from emp inner join student on student.id = emp.id;
```

id	salary	empcode	name	name	id	address	marks
12	20000	102	Aman	sania	12	hyd	78
24	60000	104	pat	conrad	24	paris	99
34	30000	105	max	charles	34	monaco	16
35	25000	103	oscar	carlos	35	hyd	55
45	90000	106	ABD	virat	45	uk	18

5 rows in set (0.00 sec)

```
mysql> select * from student left join emp on student.id = emp.id;
```

name	id	address	marks	id	salary	empcode	name
sania	12	hyd	78	12	20000	102	Aman
conrad	24	paris	99	24	60000	104	pat
charles	34	monaco	16	34	30000	105	max
carlos	35	hyd	55	35	25000	103	oscar
virat	45	uk	18	45	90000	106	ABD

5 rows in set (0.00 sec)

```
mysql> select * from student right join emp on student.id = emp.id;
```

name	id	address	marks	id	salary	empcode	name
sania	12	hyd	78	12	20000	102	Aman
conrad	24	paris	99	24	60000	104	pat
charles	34	monaco	16	34	30000	105	max
carlos	35	hyd	55	35	25000	103	oscar
virat	45	uk	18	45	90000	106	ABD

5 rows in set (0.00 sec)

```
mysql> select * from student cross join emp;
```

name	id	address	marks	id	salary	empcode	name
virat	45	uk	18	12	20000	102	Aman
carlos	35	hyd	55	12	20000	102	Aman
charles	34	monaco	16	12	20000	102	Aman
conrad	24	paris	99	12	20000	102	Aman
sania	12	hyd	78	12	20000	102	Aman
virat	45	uk	18	24	60000	104	pat
carlos	35	hyd	55	24	60000	104	pat

virat	45	uk	18	45	90000	106	ABD
-------	----	----	----	----	-------	-----	-----

5 rows in set (0.00 sec)

mysql> select * from student cross join emp;

name	id	address	marks	id	salary	empcode	name
virat	45	uk	18	12	20000	102	Aman
carlos	35	hyd	55	12	20000	102	Aman
charles	34	monaco	16	12	20000	102	Aman
conrad	24	paris	99	12	20000	102	Aman
sania	12	hyd	78	12	20000	102	Aman
virat	45	uk	18	24	60000	104	pat
carlos	35	hyd	55	24	60000	104	pat
charles	34	monaco	16	24	60000	104	pat
conrad	24	paris	99	24	60000	104	pat
sania	12	hyd	78	24	60000	104	pat
virat	45	uk	18	34	30000	105	max
carlos	35	hyd	55	34	30000	105	max
charles	34	monaco	16	34	30000	105	max
conrad	24	paris	99	34	30000	105	max
sania	12	hyd	78	34	30000	105	max
virat	45	uk	18	35	25000	103	oscar
carlos	35	hyd	55	35	25000	103	oscar
charles	34	monaco	16	35	25000	103	oscar
conrad	24	paris	99	35	25000	103	oscar
sania	12	hyd	78	35	25000	103	oscar
virat	45	uk	18	45	90000	106	ABD
carlos	35	hyd	55	45	90000	106	ABD
charles	34	monaco	16	45	90000	106	ABD
conrad	24	paris	99	45	90000	106	ABD
sania	12	hyd	78	45	90000	106	ABD

25 rows in set (0.00 sec)

mysql>