

```
mysql> show databases;
```

```
+-----+
| Database          |
+-----+
| arithmeticoperators |
| classwork          |
| information_schema  |
| mysql              |
| performance_schema  |
| sys                |
+-----+
6 rows in set (0.01 sec)
```

```
mysql> create database nit;
Query OK, 1 row affected (0.02 sec)
```

```
mysql> use nit;
Database changed
mysql> create table student(name varchar(30),
    -> id int not null primary key,
    -> address varchar(50),marks int);
Query OK, 0 rows affected (0.06 sec)
```

```
mysql> desc student ;
+-----+-----+-----+-----+-----+-----+
| Field  | Type          | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| name   | varchar(30)   | YES  |     | NULL    |       |
| id     | int           | NO   | PRI | NULL    |       |
| address | varchar(50)   | YES  |     | NULL    |       |
| marks  | int           | YES  |     | NULL    |       |
+-----+-----+-----+-----+-----+-----+
4 rows in set (0.02 sec)
```

```
mysql> insert into student(marks, id, name, address) values (78, 12,
'prakash', 'hyd');
Query OK, 1 row affected (0.02 sec)
```

```
mysql> insert into student values('kodi', 40, 'bng', 66);
Query OK, 1 row affected (0.01 sec)
```

```
mysql> insert into student values ('trupti', 45, 'hyd', 79), ('cathy',
17, 'delhi', 90), ->('dolly', 48, 'pune', 67), ('chancy', 78, 'mumbai',
34);
ERROR 1064 (42000): You have an error in your SQL syntax; check the
manual that corresponds to your MySQL server version for the right syntax
to use near '->('dolly', 48, 'pune', 67), ('chancy', 78, 'mumbai', 34)'
at line 1
mysql> insert into student values ('trupti', 45, 'hyd', 79), ('cathy',
17, 'delhi', 90),('dolly', 48, 'pune', 67), ('chancy', 78, 'mumbai', 34);
Query OK, 4 rows affected (0.01 sec)
Records: 4  Duplicates: 0  Warnings: 0
```

```
mysql> select *from student ;
+-----+-----+-----+-----+
| name   | id | address | marks |
+-----+-----+-----+-----+
| prakash | 12 | hyd      | 78    |
+-----+-----+-----+-----+
```

cathy	17	delhi	90
kodi	40	bng	66
trupti	45	hyd	79
dolly	48	pune	67
chancy	78	mumbai	34

6 rows in set (0.01 sec)

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

sum(marks)	414
------------	-----

1 row in set (0.01 sec)

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

avg(marks)	69.0000
------------	---------

1 row in set (0.00 sec)

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

count(name)	6
-------------	---

1 row in set (0.01 sec)

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

max(marks)	90
------------	----

1 row in set (0.01 sec)

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

min(marks)	34
------------	----

1 row in set (0.00 sec)

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

name	id	address	marks
chancy	78	mumbai	34
kodi	40	bng	66
dolly	48	pune	67
prakash	12	hyd	78
trupti	45	hyd	79
cathy	17	delhi	90

```
+-----+-----+-----+-----+
6 rows in set (0.00 sec)
```

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

```
+-----+-----+-----+-----+
| name      | id | address | marks |
+-----+-----+-----+-----+
| cathy     | 17 | delhi   | 90    |
| trupti    | 45 | hyd     | 79    |
| prakash   | 12 | hyd     | 78    |
| dolly     | 48 | pune    | 67    |
| kodi      | 40 | bng     | 66    |
| chancy    | 78 | mumbai  | 34    |
+-----+-----+-----+-----+
6 rows in set (0.00 sec)
```

```
mysql> select 'Wlid Card Character';
```

```
+-----+
| Wlid Card Character |
+-----+
| Wlid Card Character |
+-----+
1 row in set (0.00 sec)
```

```
mysql> select *from student where name like 'a%';
Empty set (0.01 sec)
```

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

```
+-----+-----+-----+-----+
| name      | id | address | marks |
+-----+-----+-----+-----+
| prakash   | 12 | hyd     | 78    |
| cathy     | 17 | delhi   | 90    |
| kodi      | 40 | bng     | 66    |
| trupti    | 45 | hyd     | 79    |
| dolly     | 48 | pune    | 67    |
| chancy    | 78 | mumbai  | 34    |
+-----+-----+-----+-----+
6 rows in set (0.00 sec)
```

```
mysql> select *from student where name like 't%';
```

```
+-----+-----+-----+-----+
| name      | id | address | marks |
+-----+-----+-----+-----+
| trupti    | 45 | hyd     | 79    |
+-----+-----+-----+-----+
1 row in set (0.00 sec)
```

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

```
+-----+-----+-----+-----+
| name      | id | address | marks |
+-----+-----+-----+-----+
| cathy     | 17 | delhi   | 90    |
| chancy    | 78 | mumbai  | 34    |
+-----+-----+-----+-----+
2 rows in set (0.00 sec)
```

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

```

+-----+-----+-----+-----+
| name   | id | address | marks |
+-----+-----+-----+-----+
| cathy  | 17 | delhi   | 90    |
| dolly  | 48 | pune    | 67    |
| chancy | 78 | mumbai  | 34    |
+-----+-----+-----+-----+
3 rows in set (0.00 sec)

```

```

mysql> select *from student where name like '_a%';
+-----+-----+-----+-----+
| name   | id | address | marks |
+-----+-----+-----+-----+
| cathy  | 17 | delhi   | 90    |
+-----+-----+-----+-----+
1 row in set (0.00 sec)

```

```

mysql> select *from student where name like '%s_';
+-----+-----+-----+-----+
| name   | id | address | marks |
+-----+-----+-----+-----+
| prakash | 12 | hyd     | 78    |
+-----+-----+-----+-----+
1 row in set (0.00 sec)

```

```

mysql>
mysql> select 'Joins';
+-----+
| Joins |
+-----+
| Joins |
+-----+
1 row in set (0.00 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'), (23,60000,104,'arup'), (78,30000,165,'max'), (80,25000, 103,
'ram'), (34,90000,106, 'sam');
Query OK, 5 rows affected (0.01 sec)
Records: 5  Duplicates: 0  Warnings: 0

```

```

mysql> select *from emp;
+-----+-----+-----+-----+
| id | salary | empcode | name |
+-----+-----+-----+-----+
| 12 | 20000 | 102    | aman |
| 23 | 60000 | 104    | arup |
| 34 | 90000 | 106    | sam  |
| 78 | 30000 | 165    | max  |
| 80 | 25000 | 103    | ram  |
+-----+-----+-----+-----+
5 rows in set (0.00 sec)

```

```

mysql> select *from student ;
+-----+-----+-----+-----+

```

name	id	address	marks
prakash	12	hyd	78
cathy	17	delhi	90
kodi	40	bng	66
trupti	45	hyd	79
dolly	48	pune	67
chancy	78	mumbai	34

6 rows in set (0.00 sec)

```
mysql> selectm *from student inner join emp on student.id=emp.id;
ERROR 1064 (42000): You have an error in your SQL syntax; check the
manual that corresponds to your MySQL server version for the right syntax
to use near 'selectm *from student inner join emp on student.id=emp.id'
at line 1
```

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

name	id	address	marks	id	salary	empcode	name
prakash	12	hyd	78	12	20000	102	aman
chancy	78	mumbai	34	78	30000	165	max

2 rows in set (0.00 sec)

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

id	salary	empcode	name	name	id	address	marks
12	20000	102	aman	prakash	12	hyd	78
78	30000	165	max	chancy	78	mumbai	34

2 rows in set (0.00 sec)

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

name	id	address	marks
prakash	12	hyd	78
cathy	17	delhi	90
kodi	40	bng	66
trupti	45	hyd	79
dolly	48	pune	67
chancy	78	mumbai	34

6 rows in set (0.00 sec)

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

id	salary	empcode	name
12	20000	102	aman
23	60000	104	arup
34	90000	106	sam
78	30000	165	max
80	25000	103	ram

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
prakash	12	hyd	78	12	20000	102	aman
cathy	17	delhi	90	NULL	NULL	NULL	NULL
kodi	40	bng	66	NULL	NULL	NULL	NULL
trupti	45	hyd	79	NULL	NULL	NULL	NULL
dolly	48	pune	67	NULL	NULL	NULL	NULL
chancy	78	mumbai	34	78	30000	165	max

6 rows in set (0.01 sec)

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

id	salary	empcode	name	name	id	address	marks
12	20000	102	aman	prakash	12	hyd	78
23	60000	104	arup	NULL	NULL	NULL	NULL
34	90000	106	sam	NULL	NULL	NULL	NULL
78	30000	165	max	chancy	78	mumbai	34
80	25000	103	ram	NULL	NULL	NULL	NULL

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
prakash	12	hyd	78	12	20000	102	aman
NULL	NULL	NULL	NULL	23	60000	104	arup
NULL	NULL	NULL	NULL	34	90000	106	sam
chancy	78	mumbai	34	78	30000	165	max
NULL	NULL	NULL	NULL	80	25000	103	ram

5 rows in set (0.00 sec)

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

name	id	address	marks	id	salary	empcode	name
prakash	12	hyd	78	80	25000	103	ram
prakash	12	hyd	78	78	30000	165	max
prakash	12	hyd	78	34	90000	106	sam
prakash	12	hyd	78	23	60000	104	arup
prakash	12	hyd	78	12	20000	102	aman
cathy	17	delhi	90	80	25000	103	ram
cathy	17	delhi	90	78	30000	165	max
cathy	17	delhi	90	34	90000	106	sam
cathy	17	delhi	90	23	60000	104	arup
cathy	17	delhi	90	12	20000	102	aman
kodi	40	bng	66	80	25000	103	ram
kodi	40	bng	66	78	30000	165	max
kodi	40	bng	66	34	90000	106	sam
kodi	40	bng	66	23	60000	104	arup
kodi	40	bng	66	12	20000	102	aman
trupti	45	hyd	79	80	25000	103	ram

trupti	45	hyd	79	78	30000	165	max
trupti	45	hyd	79	34	90000	106	sam
trupti	45	hyd	79	23	60000	104	arup
trupti	45	hyd	79	12	20000	102	aman
dolly	48	pune	67	80	25000	103	ram
dolly	48	pune	67	78	30000	165	max
dolly	48	pune	67	34	90000	106	sam
dolly	48	pune	67	23	60000	104	arup
dolly	48	pune	67	12	20000	102	aman
chancy	78	mumbai	34	80	25000	103	ram
chancy	78	mumbai	34	78	30000	165	max
chancy	78	mumbai	34	34	90000	106	sam
chancy	78	mumbai	34	23	60000	104	arup
chancy	78	mumbai	34	12	20000	102	aman

-----+-----+-----+-----+-----+-----+-----+-----+
30 rows in set (0.00 sec)

mysql> select *from emp cross join student;

id	salary	empcode	name	name	id	address	marks
80	25000	103	ram	prakash	12	hyd	78
78	30000	165	max	prakash	12	hyd	78
34	90000	106	sam	prakash	12	hyd	78
23	60000	104	arup	prakash	12	hyd	78
12	20000	102	aman	prakash	12	hyd	78
80	25000	103	ram	cathy	17	delhi	90
78	30000	165	max	cathy	17	delhi	90
34	90000	106	sam	cathy	17	delhi	90
23	60000	104	arup	cathy	17	delhi	90
12	20000	102	aman	cathy	17	delhi	90
80	25000	103	ram	kodi	40	bng	66
78	30000	165	max	kodi	40	bng	66
34	90000	106	sam	kodi	40	bng	66
23	60000	104	arup	kodi	40	bng	66
12	20000	102	aman	kodi	40	bng	66
80	25000	103	ram	trupti	45	hyd	79
78	30000	165	max	trupti	45	hyd	79
34	90000	106	sam	trupti	45	hyd	79
23	60000	104	arup	trupti	45	hyd	79
12	20000	102	aman	trupti	45	hyd	79
80	25000	103	ram	dolly	48	pune	67
78	30000	165	max	dolly	48	pune	67
34	90000	106	sam	dolly	48	pune	67
23	60000	104	arup	dolly	48	pune	67
12	20000	102	aman	dolly	48	pune	67
80	25000	103	ram	chancy	78	mumbai	34
78	30000	165	max	chancy	78	mumbai	34
34	90000	106	sam	chancy	78	mumbai	34
23	60000	104	arup	chancy	78	mumbai	34
12	20000	102	aman	chancy	78	mumbai	34

-----+-----+-----+-----+-----+-----+-----+-----+
30 rows in set (0.00 sec)

mysql> noteee;