

```
mysql> select * from user;
```

id	name	sex	age	phone
1	John Doe	Male	25	123-456-7890
2	Jane Smith	Female	31	987-654-3210
3	Bob Johnson	Male	22	555-123-4567

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

```
mysql> select * from user where age < 30 and age > 20;
```

id	name	sex	age	phone
1	John Doe	Male	25	123-456-7890
3	Bob Johnson	Male	22	555-123-4567

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

```
mysql> insert into user(id,name,sex,age,phone)
-> values(4,'chenxin','male',19,'18616916');
Query OK, 1 row affected (0.00 sec)
```

```
mysql> insert into user(id,name,sex,age,phone)
-> values
-> (5,'chenyi','male',20,'198762'),
-> (6,'chenhan','Female',22,'18897867');
Query OK, 2 rows affected (0.00 sec)
Records: 2 Duplicates: 0 Warnings: 0
```

```
mysql> select * from user;
```

id	name	sex	age	phone
1	John Doe	Male	25	123-456-7890
2	Jane Smith	Female	31	987-654-3210
3	Bob Johnson	Male	22	555-123-4567
4	chenxin	male	19	18616916
5	chenyi	male	20	198762
6	chenhan	Female	22	18897867

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

```
mysql> select * from user
-> where age between 20 and 30
-> and name like 'chen%'
-> order by age desc;
```

id	name	sex	age	phone
6	chenhan	Female	22	18897867
5	chenyi	male	20	198762

2 rows in set (0.00 sec)

```
mysql> select avg(age) from user;
```

avg(age)
23.1667

1 row in set (0.00 sec)

```
mysql> create table score(
-> id int auto_increment primary key,
-> teamid int,
-> userid int,
-> score int,
-> foreign key(teamid) references team(id),
-> foreign key(userid) references user(id)
-> );
```

Query OK, 0 rows affected (0.02 sec)

```
mysql> create table team (
-> id int auto_increment primary key,
-> teamName varchar(50));
```

Query OK, 0 rows affected (0.03 sec)

```
mysql> insert into team(id,teamName)
-> values
-> (NULL,'ECNU'),
-> (NULL,'PKU');
Query OK, 2 rows affected (0.00 sec)
Records: 2 Duplicates: 0 Warnings: 0
```

```
mysql> insert into team(teamName)
-> values('CMU');
Query OK, 1 row affected (0.00 sec)
```

```
mysql> select * from team;
+----+-----+
| id | teamName |
+----+-----+
| 1 | ECNU |
| 2 | PKU |
| 3 | CMU |
+----+-----+
3 rows in set (0.01 sec)

mysql> |
```

```
mysql> select * from score
-> ;
+----+-----+-----+-----+
| id | teamid | userid | score |
+----+-----+-----+-----+
| 1 | 1 | 1 | 10 |
| 2 | 2 | 3 | 13 |
| 3 | 3 | 2 | 8 |
| 4 | 1 | 4 | 20 |
+----+-----+-----+-----+
4 rows in set (0.00 sec)
```

```
mysql> select * from user
-> join score s on user.id = s.userid
-> join team t on s.teamid = t.id
-> where t.teamName = 'ECNU' and user.age < 20;
+----+-----+-----+-----+-----+----+-----+-----+-----+----+-----+
| id | name | sex | age | phone | id | teamid | userid | score | id | teamName |
+----+-----+-----+-----+-----+----+-----+-----+-----+----+-----+
| 4 | chenxin | male | 19 | 18616916 | 4 | 1 | 4 | 20 | 1 | ECNU |
+----+-----+-----+-----+-----+----+-----+-----+-----+----+-----+
1 row in set (0.00 sec)
```

```
mysql> select sum(score) as total_ecnu_score from score
-> join team on score.teamid = team.id
-> where team.teamName = 'ECNU';
+-----+
| total_ecnu_score |
+-----+
| 30 |
+-----+
1 row in set (0.00 sec)
```

```
Error: 2013 (28000): Column 'name' cannot be null
mysql> select * from user;
```

id	name	sex	age	phone
1	John Doe	NULL	NULL	NULL
2	Jane Smith	NULL	NULL	NULL
3	Bob Johnson	NULL	NULL	NULL
4	chenxin	NULL	NULL	NULL
5	chenyi	NULL	NULL	NULL
6	chenhan	NULL	NULL	NULL

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