

```
mysql> CREATE DATABASE my_database;  
Query OK, 1 row affected (0.01 sec)
```

```
mysql> USE my_database;  
Database changed
```

```
mysql> CREATE TABLE user (  
    ->     id INT AUTO_INCREMENT PRIMARY KEY,  
    ->     name VARCHAR(100),  
    ->     sex ENUM('Male', 'Female'),  
    ->     age INT,  
    ->     phone VARCHAR(15)  
    -> );  
Query OK, 0 rows affected (0.04 sec)
```

```
mysql> INSERT INTO user (name, sex, age, phone) VALUES  
    -> ('John Doe', 'Male', 25, '123-456-7890'),  
    -> ('Jane Smith', 'Female', 31, '987-654-3210'),  
    -> ('Bob Johnson', 'Male', 22, '555-123-4567');  
Query OK, 3 rows affected (0.02 sec)  
Records: 3  Duplicates: 0  Warnings: 0
```

```
mysql> SELECT * FROM user  
    -> WHERE age BETWEEN 20 AND 30;
```

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 (0.01 sec)
```

```
mysql> INSERT INTO user (name, sex, age, phone) VALUES  
    -> ('yin yu jie', 'Male', 19, '489-658-7841'),  
    -> ('yin dao ze', 'Male', 19, '478-589-1089'),  
    -> ('yin han', 'Male', 20, '158-566-7939');  
Query OK, 3 rows affected (0.01 sec)  
Records: 3  Duplicates: 0  Warnings: 0
```

```
mysql> SELECT * FROM user
-> WHERE age BETWEEN 20 AND 30
-> AND name LIKE '%yin%'
-> ORDER BY age DESC;
```

id	name	sex	age	phone
6	yin han	Male	20	158-566-7939

1 row in set (0.01 sec)

```
mysql> SELECT AVG(age) AS average_age FROM user;
```

average_age
22.6667

1 row in set (0.01 sec)

```
mysql> CREATE TABLE team (
-> id INT AUTO_INCREMENT PRIMARY KEY,
-> teamName VARCHAR(100) NOT NULL
-> );
```

Query OK, 0 rows affected (0.03 sec)

```
mysql> CREATE TABLE score (
-> id INT AUTO_INCREMENT PRIMARY KEY,
-> teamid INT,
-> userid INT,
-> score INT,
-> FOREIGN KEY (teamid) REFERENCES team(id) ON DELETE CASCADE,
```

```
mysql> SELECT u.*
-> FROM user u
-> JOIN score s ON u.id = s.userid
-> JOIN team t ON s.teamid = t.id
-> WHERE t.teamName = 'ECNU' AND u.age < 20;
```

id	name	sex	age	phone
4	yin yu jie	Male	19	489-658-7841
5	yin dao ze	Male	19	478-589-1089

2 rows in set (0.01 sec)

```
mysql> SELECT SUM(COALESCE(s.score, 0)) AS total_score
-> FROM team t
-> JOIN score s ON t.id = s.teamid
-> WHERE t.teamName = 'ECNU';
```

total_score
259

1 row in set (0.00 sec)

```
mysql> DELETE FROM user;
Query OK, 6 rows affected (0.01 sec)
```