

```
mysql> CREATE TABLE user (
->     id INT AUTO_INCREMENT PRIMARY KEY,
->     name VARCHAR(100) NOT NULL,
->     sex ENUM('Male', 'Female') NOT NULL,
->     age INT NOT NULL,
->     phone VARCHAR(15) NOT NULL
-> );
Query OK, 0 rows affected (0.03 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 (0.01 sec)
Records: 3  Duplicates: 0  Warnings: 0
```

```
mysql> INSERT INTO user (name, sex, age, phone) VALUES
-> ('Yin Zhong Cheng', 'Male', 20, '133-7029-7065');
Query OK, 1 row affected (0.01 sec)
```

```
mysql> INSERT INTO user (name, sex, age, phone) VALUES
-> ('Yin Zhong', 'Male', 18, '136-7029-7065'),
-> ('Yin Cheng', 'Male', 17, '133-7029-8065'),
-> ('Yin Zh Ch', 'Male', 24, '133-7029-7085');
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           |
+----+-----+-----+-----+-----+
| 7  | Yin Zh Ch      | Male | 24   | 133-7029-7085  |
| 4  | Yin Zhong Cheng | Male | 20   | 133-7029-7065  |
+----+-----+-----+-----+-----+
2 rows in set (0.01 sec)
```

```
mysql> select avg(age) from user;
+-----+
| avg(age) |
+-----+
| 22.4286  |
+-----+
1 row in set (0.02 sec)
```

```
mysql> CREATE TABLE score (
  ->   id INT AUTO_INCREMENT PRIMARY KEY,
  ->   teamid INT,
  ->   userid INT,
  ->   score INT NOT NULL,
  ->   FOREIGN KEY (teamid) REFERENCES team(id) ON DELETE CASCADE ON UPDATE CASCADE,
  ->   FOREIGN KEY (userid) REFERENCES user(id) ON DELETE CASCADE ON UPDATE CASCADE
  ->   userid INT,^C
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 ON UPDATE CASCADE,
  -> FOREIGN KEY (userid) REFERENCES user(id) ON DELETE CASCADE ON UPDATE CASCADE
  -> );
Query OK, 0 rows affected (0.04 sec)

mysql> INSERT INTO team (teamName) VALUES ('ECNU'),('SJTU');
Query OK, 2 rows affected (0.01 sec)
Records: 2 Duplicates: 0 Warnings: 0
```

```
mysql> INSERT INTO score (teamid, userid, score) VALUES (1, 1, 85), (1, 2, NULL), (1, 3, 90), (2, 4, 60), (1, 5, 90);
Query OK, 5 rows affected (0.01 sec)
Records: 5 Duplicates: 0 Warnings: 0

mysql> select * from user u
  -> join score s on s.userid = u.id
  -> join team t on t.id = s.teamid
  -> where u.age < 20 and t.teamName = 'ECNU';
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| id | name      | sex | age | phone      | id | teamid | userid | score | id | teamName |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| 5 | Yin Zhong | Male | 18 | 136-7029-7065 | 5 | 1 | 5 | 90 | 1 | ECNU |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
1 row in set (0.00 sec)
```

```
mysql> select sum(s.score) from score s
  -> join team t on t.id = s.teamid
  -> where t.teamName = 'ECNU';
+-----+
| sum(s.score) |
+-----+
|          265 |
+-----+
1 row in set (0.01 sec)
```

```
mysql> delete from user where name like 'Yin%';
Query OK, 4 rows affected (0.01 sec)
```

```
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)
```