

## 10235501445 孙嘉导论第五次作业

```
mysql> CREATE DATABASE daolun_hw5;  
Query OK, 1 row affected (0.03 sec)
```

```
mysql> USE daolun_hw5;  
Database changed
```

### 第一题:

```
mysql> CREATE TABLE user (  
->     id INT PRIMARY KEY,  
->     name VARCHAR(50),  
->     sex VARCHAR(10),  
->     age INT,  
->     phone VARCHAR(15)  
-> );  
Query OK, 0 rows affected (0.04 sec)  
  
mysql>  
mysql> INSERT INTO user (id, name, sex, age, phone) VALUES  
->     (1, 'John Doe', 'Male', 25, '123-456-7890'),  
->     (2, 'Jane Smith', 'Female', 31, '987-654-3210'),  
->     (3, 'Bob Johnson', 'Male', 22, '555-123-4567');  
Query OK, 3 rows affected (0.01 sec)
```

### 第二题:

```
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 (0.03 sec)
```

### 第三题:

```
mysql> INSERT INTO user (id, name, sex, age, phone) VALUES  
->     (4, '孙嘉', 'Female', 19, '123-123-1234'),  
->     (5, '孙小明', 'Male', 28, '234-234-2345'),  
->     (6, '孙小丽', 'Female', 26, '345-345-3456');  
Query OK, 3 rows affected (0.03 sec)  
Records: 3  Duplicates: 0  Warnings: 0
```

第四题:

```
mysql> SELECT * FROM user
      -> WHERE age BETWEEN 20 AND 30 AND name LIKE '孙%'
      -> ORDER BY age DESC;
+-----+-----+-----+-----+-----+
| id | name      | sex   | age  | phone      |
+-----+-----+-----+-----+-----+
| 5  | 孙小明    | Male  | 28   | 234-234-2345 |
| 6  | 孙小丽    | Female| 26   | 345-345-3456 |
+-----+-----+-----+-----+-----+
2 rows in set (0.03 sec)
```

第五题:

```
mysql> SELECT AVG(age) AS average_age FROM user;
+-----+
| average_age |
+-----+
|      25.1667 |
+-----+
1 row in set (0.00 sec)
```

第六题:

```
mysql> CREATE TABLE team (
      ->     id INT PRIMARY KEY,
      ->     teamName VARCHAR(50)
      -> );
Query OK, 0 rows affected (0.05 sec)
```

```
mysql>
mysql> CREATE TABLE score (
      ->     id INT 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)
```

第七题:

```
mysql> INSERT INTO team (id, teamName) VALUES
->      (1, 'ECNU'),
->      (2, 'FDU');
Query OK, 2 rows affected (0.03 sec)
Records: 2  Duplicates: 0  Warnings: 0
```

```
mysql>
mysql> INSERT INTO score (id, teamid, userid, score) VALUES
->      (1, 1, 4, 85),
->      (2, 1, 5, 90),
->      (3, 2, 6, 75);
Query OK, 3 rows affected (0.00 sec)
Records: 3  Duplicates: 0  Warnings: 0
```

```
mysql>
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  | 孙嘉  | Female | 19   | 123-123-1234 |
+----+-----+-----+-----+-----+
1 row in set (0.00 sec)
```

#### 第八题:

```
mysql> SELECT SUM(IFNULL(s.score, 0)) AS total_score
-> FROM score s
-> JOIN team t ON s.teamid = t.id
-> WHERE t.teamName = 'ECNU';
+-----+
| total_score |
+-----+
|          175 |
+-----+
1 row in set (0.00 sec)
```

#### 第九题:

```
mysql> DELETE FROM score WHERE userid = 4;
Query OK, 1 row affected (0.03 sec)

mysql> DELETE FROM user WHERE name = '孙嘉';
Query OK, 1 row affected (0.00 sec)
```