### Step1创建格,描准格

```
mysql> create TABLE user (
    -> id INT AUTO_INCREMENT PRIMARY KEY,
    -> name VARCHAR(100) NOT NULL,
    -> sex VARCHAR(10) NOT NULL,
    -> age INT NOT NULL,
    -> phone VARCHAR(15) NOT NULL
    -> );
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;
  id | name
                       sex
                               age | phone
   1 | John Doe
                     l Male
                                 25 | 123-456-7890
      Jane Smith
                     | Female
   2
                                 31 | 987-654-3210
      Bob Johnson | Male
                                  22 | 555-123-4567
3 \text{ rows in set } (0.00 \text{ sec})
mysql> SELECT * FROM user
    -> WHERE age BETWEEN 20 AND 30;
 id | name
                              age | phone
                       sex
      John Doe
                       Male
                               25
                                     123-456-7890
      Bob Johnson
                      Male
                               22
                                    555-123-4567
2 rows in set (0.00 sec)
```

### Step3.插入隐

```
mysql> INSERT INTO user (name, sex, age, phone) VALUES
    -> ('Chloris Zhou', 'Female', 19, '511-722-1234');
Query OK, 1 row affected (0.02 sec)
mysql> INSERT INTO user (name, sex, age, phone) VALUES
-> ('Alice Zhou', 'Female', 24, '555-001-2345'),
     -> ('Brian Zhou', 'Male', 27, '555-002-3456'),
-> ('Cathy Zhou', 'Female', 22, '555-003-4567'),
-> ('David Zhou', 'Male', 30, '555-004-5678');
Query OK, 4 rows affected (0.02 sec)
Records: 4 Duplicates: 0 Warnings: 0
mysql> select * from user;
  id | name
                                         age | phone
                             sex
    1 | John Doe
                             Male
                                          25 l
                                                 123-456-7890
   2 | Jane Smith
                             Female
                                          31 l
                                                 987-654-3210
   3 | Bob Johnson
                             Male
                                          22 | 555-123-4567
   4 | Chloris Zhou |
                             Female
                                          19 | 511-722-1234
    5 | Alice Zhou
                                          24 | 555-001-2345
                             Female
   6 | Brian Zhou
                             Male
                                          27 | 555-002-3456
                                               555-003-4567
       Cathy Zhou
                            Female
                                          22
    8 | David Zhou
                             Male
                                          30 | 555-004-5678
8 rows in set (0.00 sec)
```

### Step 4. 查询,并按年龄输出

```
mysql> select * from user
    -> where age between 20 and 30 and name like '%Zhou%'
    -> order by age DESC;
  id | name
                               age | phone
                     sex
   8 | David Zhou |
                     Male
                                30 | 555-004-5678
      Brian Zhou
                     Male
                                27 l
                                     555-002-3456
      Alice Zhou
                                24
                    Female
                                    555-001-2345
     | Cathy Zhou | Female |
                                22
                                   | 555-003-4567
4 \text{ rows in set } (0.02 \text{ sec})
```

#### Step 5 计算平均能

```
mysql> select AVG(age) AS average_age from user;
+-----+
| average_age |
+------+
| 25.0000 |
+------+
1 row in set (0.02 sec)
```

# Step 6. 新建 team, score 两结表

## Step 7. 插八ء后, 查询 "ECNU" 中年能对于 20 和 用户.

```
mysql> -- 向 team 表插入记录
mysql> INSERT INTO team (teamName) VALUES
--> ('ECNU'),
-> ('ABC'),
-> ('YYZ'),
-> ('DEF'),
-> ('GHI'),
-> ('JKL'),
-> ('MNO'),
-> ('ECNU'); -- 再次插入 "ECNU"
Query OH, 8 rows affected (0.01 sec)
Records: 8 Duplicates: 0 Warnings: 0

mysql> INSERT INTO score (teamid, userid, score) VALUES
-> (1, 1, FLOOR(RAND() * 101)), -- teamid 为 ECNU 的 ID
-> (2, 2, FLOOR(RAND() * 101)), -- teamid 为 ABC 的 ID
-> (3, 3, FLOOR(RAND() * 101)), -- teamid 为 ECNU 的 ID
-> (3, 3, FLOOR(RAND() * 101)), -- teamid 为 ECNU 的 ID
-> (1, 4, FLOOR(RAND() * 101)), -- teamid 为 DEF 的 ID
-> (4, 5, FLOOR(RAND() * 101)), -- teamid 为 GHI 的 ID
-> (5, 6, FLOOR(RAND() * 101)), -- teamid 为 GHI 的 ID
-> (6, 7, FLOOR(RAND() * 101)), -- teamid 为 JKL 的 ID
-> (7, 8, FLOOR(RAND() * 101)); -- teamid 为 JKL 的 ID
-> (7, 8, FLOOR(RAND() * 101)); -- teamid 为 MNO 的 ID
Query OH, 8 rows affected (0.02 sec)
Records: 8 Duplicates: 0 Warnings: 0
```

#### Step8. 计算ECNUPULED.

Step 9. 删解user中个八氯的记录

```
mysql> DELETE FROM user

-> WHERE name = 'Chloris Zhou';
ERROR 1451 (23000): Cannot delete or update a parent row: a foreign key constraint fails ('mydatabase'.'score', CONSTRAINT 'score_ibfk_2' FOREIG N KEY ('userid') REFERENCES 'user' ('id'))
mysql> DELETE FROM score WHERE userid IN (SELECT id FROM user WHERE name = 'Chloris Zhou');
Query OK, 1 row affected (0.01 sec)
mysql> DELETE FROM user WHERE name = 'Chloris Zhou';
Query OK, 1 row affected (0.01 sec)
```

不能够删除.