1. 在新数据库中新建一张 user 表,插入几条数据,属性包含:唯一标识(id),姓名(name)性别(sex).年龄 (age).联系方式(phone),数据如下: ('John Doe', 'Male', 25, '123-456-7890') ('Jane Smith', 'Female', 31, '987-654-3210') ('Bob Johnson', 'Male', 22, '555-123-4567') MySQL localhost:3306 ssl hw5 > create table 'user'('id' int,'name' varchar(20),'sex' varchar(6),'age' int,' phone' varchar(20),primary key('id')); Query OK, 0 rows affected (0.0252 sec) insert into `user` values(0,'John Doe', 'Male', 25, '123-456-7890'); localhost:3306 ssl hw5 Query OK, 1 row affected (0.0079 sec)

MySQL localhost:3306 ssl hw5 SQL >
Query OK, 1 row affected (0.0069 sec) insert into 'user' values(1,'Jane Smith', 'Female', 31, '987-654-3210'); MySQL localhost:3306 ssl hw5 SQL > insert into `user` va Query OK, 1 row affected (0.0067 sec) MySQL localhost:3306 ssl hw5 SQL > select * from `user`; insert into `user` values(2,'Bob Johnson', 'Male', 22, '555-123-4567'); id | name sex | age | phone 25 31 22 John Doe Jane Smith 123-456-7890 Male Female 987-654-3210 Bob Johnson Male 555-123-4567 3 rows in set (0.0017 sec) 2. 写出 SQL 语句, 查询 user 表中所有年龄在 20-30 范围内的用户 MySQL localhost:3306 ssl hw5 SQL > select * from `user` where age>=20 and age<=30; id name sex age phone Θ John Doe Male 25 123-456-7890 22 555-123-4567 2 Bob Johnson Male 2 rows in set (0.0008 sec) 3. 写出 SQL 语句,向 user 表中添加自己的个人信息,并添加几条和你姓名同姓的虚拟信息。 > insert into 'user' values(3,'Deng Jin', 'Male', 19, '131-472-9389'); Query OK, 1 row affected (0.0037 sec)
MySQL localhost:3306 ssl hw5 SQL > insert into `user` values(4,'Deng Xiaoming', 'Male', 20, '486-159-4860'); Query OK, 1 row affected (0.0068 sec) insert into `user` values(5,'Deng Yuqin', 'Female', 21, '957-753-3268'); MySQL localhost:3306 ssl hw5 SQL > Query OK, 1 row affected (0.0067 sec) MySQL localhost:3306 ssl hw5 > select * from `user`; age 123-456-7890 John Doe Male 25 Jane Smith Female 987-654-3210 555-123-4567 22 19 Bob Johnson Male Deng Jin Deng Xiaoming Deng Yuqin Male 131-472-9389 486-159-4860 957-753-3268 Male Female 20 6 rows in set (0.0013 sec) 4. 写出 SQL 语句,查询 user 表中年龄在 20-30 范围内,名字包含"你的姓氏"的用户,并按照年龄从大到小排序 输出 MySQL localhost:3306 ssl hw5 SQL > select * from `user` where age>=20 and age<=30 and name like 'Deng%' order b age desc; id | name l sex age | phone 957-753-3268 486-159-4860 Deng Yuqin | Female Deng Xiaoming | Male 21 20 2 rows in set (0.0018 sec) 写出 SQL 语句,计算 user 表中所有用户的平均年龄 MySQL localhost:3306 ssl hw5 SQL > select avg(age) from user; avg(age) 23.0000

row in set (0.0015 sec)

6. 新建两张表 team 表(id,teamName)和 score 表(id,teamid,userid,score)。其中 score 表中的 teamid 为指向 team表 id 的外键,userid 为指向 user表 id 的外键

```
MySQL localhost:3306 ssl hw5
                                             > create table `team`(id int primary key,teamName varchar(20));
Query OK, 0 rows affected (0.0199 sec)
MySQL localhost:3306 ssl hw5 SQL > create table `score`(id int primary key,teamid int,userid int, score float,foreign key(teamid) references team(id) on delete set null,foreign key(userid) references
user(id) on delete set null);
Query OK, 0 rows affected (0.0282 sec)
MyS
       localhost:3306 ssl hw5
                                               describe team
                                Null
                                         Key | Default | Extra
  Field
             | Type
  id
               int
                                NO
                                         PRI
               varchar(20)
                                                NULL
  teamName |
2 rows in set (0.0031 sec)
MySQL localhost:3306 ssl hw5 SQL > describe score;
                    | Null | Key | Default | Extra
 Field | Type
  id
                               PRI
                                      NULL
             int
  teamid
                       YES
                               MUL
                                      NULL
             int
                                      NULL
  userid
             float
                      YES
                                      NULL
4 rows in set (0.0035 sec)
```

7. 在 team 表中和 score 表中插入合适的记录,写出 SQL 语句,查询 teamName 为"ECNU"的队伍中,年龄小于 20 的用户们,结果不得为空。

```
MySQL localhost:3306 ssl hw5
                                           insert into team values(0,'ECNU');
Query OK, 1 row affected (0.0068 sec)

MySQL localhost:3306 ssl hw5 SQL
                                           insert into team values(1,'DASE');
Query OK, 1 row affected (0.0073 sec)
        localhost:3306 ssl
                                           insert into score values(0,0,0,null);
Query OK, 1 row affected (0.0075 sec)
         localhost:3306 ssl
                                           insert into score values(1,0,1,83);
Query OK, 1 row affected (0.0069 sec)
MySQL localhost:3306 ssl hw5 SQL
                                           insert into score values(2,0,3,91);
          1 row affected (0.0068 sec)
MvS
        localhost:3306 ssl
                                           insert into score values(3,0,2,98);
Query OK, 1 row affected (0.0063 sec)
MySQL localhost:3306 ssl
                                           insert into score values(4,1,4,75);
Query OK,
          1 row affected (0.0067 sec)
                                           insert into score values(5,1,5,84);
MySQL localhost:3306 ssl
Query OK, 1 row affected (0.0072 sec)
MySQL localhost:3306 ssl hw5
                                           select * from team;
       teamName
  id
   0
       ECNU
       DASE
2 rows in set (0.0016 sec)
       localhost:3306 ssl hw5 SQL > select * from score;
                 userid |
       teamid
             0
                               83
             0
                               91
             0
                               98
   Д
                       Ц
                               75
   5
                       5
                               ЯЩ
  rows in set (0.0016 sec)
MySQL localhost:3306 ssl hw5
                                 > select * from user where age<20 and id in(select userid from s
core where teamid=(select id from team where teamName='ECNU'));
                    | age | phone
```

8. 写出 SQL 语句,计算 teamName 为"ECNU"的总分(假设 score 存在 null 值, nul 值默认为 0 加入计算)。

3 | Deng Jin | Male | 19 | 131-472-9389

1 row in set (0.0013 sec)

```
9. 写出 SQL 语句,删除 user 表中个人信息的记录。
 MySQL localhost:3306 ssl hw5 SQL > delete from user where id=3;
Query OK, 1 row affected (0.0079 sec)

MySQL localhost:3306 ssl hw5 SQL > select * from user;
| id | name
                                | age | phone
                       sex
   0 |
       John Doe
                        Male
                                   25
                                        123-456-7890
       Jane Smith
                                        987-654-3210
   1
                        Female
                                   31
   2
       Bob Johnson
                        Male
                                   22
                                        555-123-4567
                        Male
   4
       Deng Xiaoming |
                                   20
                                        486-159-4860
                                   21
   5 |
       Deng Yuqin
                        Female |
                                        957-753-3268
<u>5 rows</u> in set (0.0013 sec)
MySQL localhost:3306 ssl hw5 SQL >
```