第一题:

```
[mysql> USE Homework;
Database changed
[mysql> CREATE TABLE users(
[    -> id INT AUTO_INCREMENT PRIMARY KEY,
[    -> name VARCHAR(50) NOT NULL,
[    -> sex  VARCHAR(50) NOT NULL,
[    -> age INT,
[    -> phone VARCHAR(50)
[    -> );
Query OK, 0 rows affected (0.04 sec)

mysql> INSERT INTO users (name, sex, age, phone)
[    -> VALUES ('John Doe', 'Male', 25, '123-456-7890');
Query OK, 1 row affected (0.01 sec)

mysql> INSERT INTO users (name, sex, age, phone)
[    -> VALUES ('Jane Smith', 'Female', 31, '987-654-3210');
Query OK, 1 row affected (0.00 sec)

[mysql> INSERT INTO users(name,sex,age,phone)
[    -> VALUES ('Bob Johnson', 'Male', 22, '555-123-4567');
Query OK, 1 row affected (0.00 sec)
```

第二题:

```
[mysql> SELECT * FROM users WHERE age>=20 AND age<=30;
+----+-------------+--------+------+---------------+
| id | name        | sex    | age  | phone         |
+----+-------------+--------+------+---------------+
|  1 | John Doe    | Male   |   25 | 123-456-7890  |
|  3 | Bob Johnson | Male   |   22 | 555-123-4567  |
```

第三题:

```
[mysql> INSERT INTO users
[    -> VALUES(NULL, 'Caolu', 'Female', 20, '188-628-54398');
Query OK, 1 row affected (0.01 sec)

[mysql> INSERT INTO users
[    -> VALUES
[    -> (NULL, 'Caolulu', 'Female', 22, '158-628-54398'),
[    -> (NULL,'Caoxiaolu', 'Female', 21, '123-456-789'),
[    -> (NULL, 'Caodalu', 'Female', 23, '789-456-123');
Query OK, 3 rows affected (0.01 sec)
Records: 3  Duplicates: 0  Warnings: 0
```

第四题:

```
mysql> SELECT *  FROM users WHERE age >=20 AND age <=30 AND name LIKE 'Cao%' ORDER BY age DESC;
+----+-----------+--------+------+---------------+
| id | name      | sex    | age  | phone         |
+----+-----------+--------+------+---------------+
|  7 | Caodalu   | Female |   23 | 789-456-123   |
|  5 | Caolulu   | Female |   22 | 158-628-54398 |
|  6 | Caoxiaolu | Female |   21 | 123-456-789   |
|  4 | Caolu     | Female |   20 | 188-628-54398 |
+----+-----------+--------+------+---------------+
4 rows in set (0.00 sec)
```

第五题:

```
mysql> SELECT ROUND(AVG(age), 2) AS average_age FROM users;
+-------------+
| average_age |
+-------------+
|       23.43 |
+-------------+
1 row in set (0.00 sec)
```

第六题:

```
mysql> CREATE TABLE team (
    ->     id INT AUTO_INCREMENT PRIMARY KEY,
    ->     teamName VARCHAR(50) NOT NULL
    -> );
Query OK, 0 rows affected (0.05 sec)

mysql> CREATE TABLE score(
    -> id INT AUTO_INCREMENT PRIMARY KEY,
    -> teamid INT,
    -> userid INT,
    -> FOREIGN KEY (teamid) REFERENCES team(id),
    -> FOREIGN KEY (userid) REFERENCES users(id)
    -> );
Query OK, 0 rows affected (0.02 sec)


mysql> ALTER TABLE score
    -> ADD score INT;
Query OK, 0 rows affected (0.02 sec)
Records: 0  Duplicates: 0  Warnings: 0
```

第七题:

```
mysql> INSERT INTO team (teamName)
    -> VALUES
    ->     ('ECNU'),
    ->     ('SJU'),
    ->     ('FDU'),
    ->     ('TJU');
Query OK, 4 rows affected (0.00 sec)
Records: 4  Duplicates: 0  Warnings: 0


mysql> INSERT INTO score(teamid,userid,score)
    -> VALUES
    -> (1,1,90),
    -> (2,2,91),
    -> (3,3,92),
    -> (1,4,100),
    -> (4,5,93),
    -> (2,6,94),
    -> (3,7,95),
    -> (1,8,96),
    -> (1,9,98);
Query OK, 9 rows affected (0.00 sec)
Records: 9  Duplicates: 0  Warnings: 0

mysql> SELECT u.id, u.name, u.age, t.teamName, s.score
    -> FROM users 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      | age  | teamName | score |
+----+-----------+------+----------+-------+
|  8 | xioaming  |   19 | ECNU     |    96 |
|  9 | xiaozhang |   18 | ECNU     |    98 |
+----+-----------+------+----------+-------+
2 rows in set (0.03 sec)
```

第八题:

```
mysql> SELECT SUM(COALESCE(s.score, 0)) AS total_score
    -> FROM score s
    -> JOIN team t ON s.teamid = t.id
    -> WHERE t.teamName = 'ECNU';
+-------------+
| total_score |
+-------------+
|         384 |
+-------------+
1 row in set (0.02 sec)
```

第九题:

```
| score | CREATE TABLE `score` (
  `id` int NOT NULL AUTO_INCREMENT,
  `teamid` int DEFAULT NULL,
  `userid` int DEFAULT NULL,
  `score` int DEFAULT NULL,
  PRIMARY KEY (`id`),
  KEY `teamid` (`teamid`),
  KEY `userid` (`userid`),
  CONSTRAINT `score_ibfk_1` FOREIGN KEY (`teamid`) REFERENCES `team` (`id`),
  CONSTRAINT `score_ibfk_2` FOREIGN KEY (`userid`) REFERENCES `users` (`id`)
) ENGINE=InnoDB AUTO_INCREMENT=10 DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_0900_ai_ci |
+-------+----------------------------------------------------------------------------------------------
------------------------------------------------------------------------------------------------------
------------------------------------------------------------------------------------------------------
------------------------------------------------------------------------------------------------------
-------------------------------------------+
1 row in set (0.01 sec)

mysql> ALTER TABLE score
    -> DROP FOREIGN KEY score_ibfk_1,score_ibfk_2;
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL
server version for the right syntax to use near 'score_ibfk_2' at line 2
mysql> ALTER TABLE score
    -> DROP FOREIGN KEY score_ibfk_1;
Query OK, 0 rows affected (0.03 sec)
Records: 0  Duplicates: 0  Warnings: 0

mysql> ALTER TABLE score
    -> DROP FOREIGN KEY score_ibfk_2;
Query OK, 0 rows affected (0.01 sec)
Records: 0  Duplicates: 0  Warnings: 0

mysql> TRUNCATE TABLE users;
Query OK, 0 rows affected (0.02 sec)
```

第九题: