```
1.
       CREATE DATABASE IF NOT EXISTS homework8;
2 •
       USE homework8;
3 • ○ CREATE TABLE IF NOT EXISTS users(
            id INT AUTO_INCREMENT PRIMARY KEY,
            name VARCHAR(20),
5
            sex VARCHAR(20),
6
7
            age INT,
            phone VARCHAR(20)
8
9
       );
LØ •
       INSERT INTO homework8.users(name, sex, age, phone)
       VALUES
11
            ('John Doe', 'Male', 25, '123-456-7890'),
            ('Jane Smith', 'Female', 31, '987-654-3210'),
13
14
            ('Bob Johnson', 'Male', 22, '555-123-4567');
2.
 1 •
        SELECT *
 2
        FROM homework8.users
        WHERE age BETWEEN 20 AND 30;
           name
                                    phone
                        sex
                              age
     1
           John Doe
                       Male
                              25
                                    123-456-7890
           Bob Johnson
                                    555-123-4567
     3
                       Male
                             22
     NULL
                       NULL
                             NULL
3.
 1 •
        INSERT INTO homework8.users(name, sex, age, phone)
 2
        VALUES
             ('Hanwen_Ruan', 'male', 19, '133-233-1230'),
 3
             ('Zihe_Ruan', 'female', 18, '114-514-1919'),
             ('Xining_Ruan', 'female', 25, '132-231-3213');
 5
          name
                                      phone
                        sex
                                age
    1
          John Doe
                        Male
                                25
                                      123-456-7890
    2
          Jane Smith
                       Female
                                31
                                      987-654-3210
    3
          Bob Johnson
                        Male
                                      555-123-4567
                                22
    4
          Hanwen_Ruan
                       male
                                19
                                      133-233-1230
    5
                                18
          Zihe_Ruan
                                      114-514-1919
                        female
          Xining_Ruan
                        female
                                25
                                     132-231-3213
   NULL
                               NULL
          NULL
                       NULL
4.
  1 .
         SELECT *
         FROM homework8.users
  2
         WHERE age BETWEEN 20 AND 30 AND name LIKE '%Ruan'
  3
  4
         ORDER BY age DESC;
```

```
id
                     sex
                                     phone
                              age
                              25
                                     132-231-3213
6
       Xining_Ruan
                     female
NULL
       NULL
                             NULL
                    NULL
```

5.

- SELECT AVG(age) 1 •
- FROM homework8.users;

	AVG(age)
•	23.3333

```
6.
        USE homework8;
  2 • ○ CREATE TABLE IF NOT EXISTS team(
            id INT AUTO_INCREMENT PRIMARY KEY,
            teamName VARCHAR(20)
  5
        );
  6 • ⊖ CREATE TABLE IF NOT EXISTS score(
            id INT AUTO INCREMENT PRIMARY KEY,
  7
            teamid INT,
  8
            userid INT,
            score INT,
10
            CONSTRAINT fk_team
11
            FOREIGN KEY(teamid) REFERENCES team(id),
 12
            CONSTRAINT fk_user
13
14
            FOREIGN KEY(userid) REFERENCES users(id)
15
        );
7.
        INSERT INTO team(teamName)
 1 •
        VALUES
  2
            ('ECNU'),
  3
            ('JY');
        INSERT INTO score(teamid, userid, score)
  5 •
        VALUES
  6
 7
            (1, 1, 89),
            (1, 2, 93),
           (2, 3, 78),
 9
            (1, 4, 99),
10
            (2, 5, 86),
11
            (2, 6, 83);
12
```

```
SELECT u.name, t.teamName, u.age
2
    FROM users AS u
    JOIN team AS t
3
     JOIN score AS s ON u.id = s.userid AND u.age < 20 AND t.id = s.teamid AND t.teamName = 'ECNU';
     name teamName age
▶ Hanwen_Ruan ECNU
                            19
8.
 1 •
       SELECT SUM(score)
       FROM users AS u
       JOIN score AS s
       JOIN team AS t ON s.teamid = t.id AND t.teamName = 'ECNU' AND u.id = s.userid;
    SUM(score)
▶ 281
9.
  1 • SET FOREIGN_KEY_CHECKS = 0;
       DELETE FROM users
  2 •
  3
        WHERE id = 4;
```

	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
	5	Zihe_Ruan	female	18	114-514-1919
	6	Xining_Ruan	female	25	132-231-3213