MySQL任务2作业参考答案

项目三 超过5名学生的课

```
1 -- 创建表
 2 DCREATE TABLE courses (
 3 student VARCHAR(1) NOT NULL,
 4 class VARCHAR (255) NOT NULL
 5 1;
   -- 插入数据
 8
 9 INSERT INTO courses VALUES('A', 'Math');
10 INSERT INTO courses VALUES('B', 'English');
11 INSERT INTO courses VALUES('C','Math');
12 INSERT INTO courses VALUES('D', 'Biology');
    INSERT INTO courses VALUES('E', 'Math');
14 INSERT INTO courses VALUES('F', 'Computer');
15 INSERT INTO courses VALUES('G', 'Math');
16 INSERT INTO courses VALUES('H', 'Math');
17
    INSERT INTO courses VALUES('I', 'Math');
18 INSERT INTO courses VALUES('A', 'Math');
19
    -- 作业解答
20
21 SELECT class
22 FROM courses
23 GROUP BY class
24 HAVING COUNT (DISTINCT student) >= 5
```

项目四 交换工资

交换工资有个小坑,就是故意设置了一个重复的数据。所以需要进行去重处理再计数。

```
2 □CREATE TABLE salary (
      id VARCHAR(2) NOT NULL PRIMARY KEY,
name VARCHAR(50) NULL,
sex VARCHAR(2) NOT NULL,
salary INT NULL);
 5 sex VAR
        - 插入数据
9 INSERT INTO salary VALUES('1','A','m','2500');
10 INSERT INTO salary VALUES('2','B','f','1500');
11 INSERT INTO salary VALUES('3','C','m','5500');
12 INSERT INTO salary VALUES('4','D','f','500');
       -- 作业参考答案
15 SELECT * FROM salary -- 初始表格
16
17 UPDATE salary
       SET sex = CASE
18
                             WHEN sex = 'f' THEN 'm'
19
20
                              ELSE 'f'
23 SELECT * FROM salary -- 查看代码结果
```

项目五 有趣的电影

```
1 -- 创建表格
2 DCREATE TABLE IF NOT EXISTS Person (
3 PersonID INT NOT NULL PRIMARY KEY,
4 FirstName VARCHAR(120),
5 LastName VARCHAR(120)
6 );
7 8 DCREATE TABLE IF NOT EXISTS Address (
9 AddressID INT NOT NULL PRIMARY KEY,
10 PersonID INT NOT NULL,
11 City VARCHAR(100),
12 State VARCHAR(100),
13 );
14 -- 插入数据
16 INSERT INTO Person VALUES('1','A','B');
17 INSERT INTO Person VALUES('2','C','D');
18 INSERT INTO Person VALUES('3','E','F');
19
10 INSERT INTO Address VALUES('1','3','NAN JING','JIANG SU');
11 INSERT INTO Address VALUES('2','2','HANG ZHOU','ZHE JIANG');
11 INSERT INTO Address VALUES('3','I','GUANG ZHOU','GUANG DONG');
23 -- 作业
25 SELECT Person.FirstName
26 ,Person.LastName
27 ,Address.City
28 ,Address.State
29 FROM Person
30 LEFT JOIN Address
31 ON Person.PersonID = Address.PersionID
```

项目六 组合两张表

```
DELETE a.*
FROM email a, email b
WHERE a.Email = b.Email
AND a.ID > b.ID;

SELECT *
FROM email;
```

项目七: 删除重复的邮箱

连接两张Person表,筛选出重复且ld较大的记录,然后删除。

```
DELETE p1 FROM Person AS p1
JOIN Person AS p2 ON p1.Email = p2.Email AND p1.ld > p2.ld;
```

项目八: 从不订购的客户

可以输出id没有出现在Orders表格Customerld字段中的客户名字:

```
1 SELECT Name AS Customers FROM Customers WHERE
2 Id NOT IN
(SELECT Customerld FROM Orders);
```

也可以把Customers表左连接(left join)Orders表,然后输出对应订单id为nulll的客户名字:

- 1 SELECT Name AS Customers FROM
- 2 Customers AS c
- 3 LEFT JOIN Orders AS o ON c.ld =
 o.Customerld
 WHERE o.ld IS NULL;

项目九: 超过经理收入的员工

连接(join)两张表,一个作为员工,一个作为上级。然后用WHERE找出符合条件的员工名字。

- 1 | SELECT e.Name AS Employee FROM
- 2 Employee AS e
- 3 JOIN Employee AS m ON e.Managerld = m.ld WHERE e.Salary > m.Salary;