SQL Exercise 6

1. Display all the Suppliers with the same Status as the supplier, 'CLARK'.

    ```
    mysql> select * from supplier
        -> where status = (select status from supplier where sname = 'Clark');
    +------+-------+--------+--------+
    | S#   | sname | status | city   |
    +------+-------+--------+--------+
    | S1   | Smith |     20 | London |
    | S4   | Clark |     20 | London |
    +------+-------+--------+--------+
    2 rows in set (0.02 sec)
    ```

2. Display all the Employees in the same department as the employee 'MILLER'.

```
mysql> select * from employees;
+-------+-------------+-----------+--------+
| empid | empname     | managerid | deptid |
+-------+-------------+-----------+--------+
|     1 | John Smith  |      NULL |    101 |
|     2 | Jane Doe    |         1 |    102 |
|     3 | Mark Brown  |         1 |    101 |
|     4 | Emily Davis |         2 |    103 |
|     5 | Michael Lee |         2 |    102 |
|     6 | Sarah Clark |         3 |    101 |
|     7 | Miller      |         5 |    102 |
+-------+-------------+-----------+--------+
7 rows in set (0.00 sec)

mysql> select * from employees
    -> where deptid = (select deptid from employees where empname = 'Miller');
+-------+-------------+-----------+--------+
| empid | empname     | managerid | deptid |
+-------+-------------+-----------+--------+
|     2 | Jane Doe    |         1 |    102 |
|     5 | Michael Lee |         2 |    102 |
|     7 | Miller      |         5 |    102 |
+-------+-------------+-----------+--------+
```

3 rows in set (0.00 sec)

3. Display all the Parts which have more Weight than all the Red parts.

```
mysql> select * from parts
    -> where weight > (select max(weight) from parts where color = 'Red');
+------+-------+-------+--------+--------+
| P#   | Pname | Color | Weight | city   |
+------+-------+-------+--------+--------+
| P2   | Bolt  | Green |     17 | Paris  |
| P3   | Screw | Blue  |     14 | Athens |
+------+-------+-------+--------+--------+
2 rows in set (0.01 sec)
```

4. Display all the Projects going on in the same city as the project 'TAPE'.

```
mysql> select * from projects
    -> where city = (select city from projects where Jname = 'TAPE');
+------+----------+--------+
| J#   | Jname    | city   |
+------+----------+--------+
| J1   | Project1 | London |
| J5   | Project5 | London |
| J6   | TAPE     | London |
+------+----------+--------+
3 rows in set (0.00 sec)
```

5. Display all the Parts with Weight less than all the Green parts.

```
mysql> select * from parts
    -> where weight < (select weight from parts where color = 'Green');
+------+--------+--------+--------+--------+
| P#   | Pname  | Color  | Weight | city   |
+------+--------+--------+--------+--------+
| P1   | Nut    | Red    |     12 | London |
| P3   | Screw  | Blue   |     14 | Athens |
| P4   | Washer | Red    |     12 | London |
| P5   | Nail   | Yellow |     10 | Athens |
+------+--------+--------+--------+--------+
4 rows in set (0.00 sec)
```

6. Display the name of the Supplier who has sold the maximum Quantity (in one sale).

```
mysql> select supplier.sname as supplierName, ` supplier-parts-project `.Qty as
Quantity from supplier, `supplier-parts-project`
    -> where supplier.`S#` = `supplier-parts-project`.`S#`
    -> order by `supplier-parts-project`.Qty desc
    -> limit 1;
+--------------+----------+
| supplierName | Quantity |
+--------------+----------+
| Blake        |     510  |
+--------------+----------+
1 row in set (0.01 sec)
```

7. Display the name of the Employee with the minimum Salary.

```
mysql> select * from employees;
+-------+-------------+-----------+--------+--------+
| empid | empname     | managerid | deptid | salary |
+-------+-------------+-----------+--------+--------+
|    1  | John Smith  |      NULL |    101 | 50000  |
|    2  | Jane Doe    |        1  |    102 | 60000  |
|    3  | Mark Brown  |        1  |    101 | 55000  |
|    4  | Emily Davis |        2  |    103 | 45000  |
|    5  | Michael Lee |        2  |    102 | 40000  |
|    6  | Sarah Clark |        3  |    101 | 70000  |
|    7  | Miller      |        5  |    102 | 65000  |
+-------+-------------+-----------+--------+--------+
7 rows in set (0.00 sec)

mysql> select empname as EmployeeName, salary from employees
    -> order by salary
    -> limit 1;
+--------------+--------+
| EmployeeName | salary |
+--------------+--------+
| Michael Lee  | 40000  |
+--------------+--------+
1 row in set (0.00 sec)
```

8. Display the name of the Supplier who has sold the maximum overall Quantity (sum of Sales).

```
mysql> select supplier.sname as supplierName, sum(`supplier-parts-project`.Qty)
as Quantity
    -> from supplier, `supplier-parts-project`
    -> where supplier.`S#` = `supplier-parts-project`.`S#`
    -> group by supplier.sname
    -> order by Quantity desc
    -> limit 1;
+--------------+----------+
| supplierName | Quantity |
+--------------+----------+
| Blake        |    510 |
+--------------+----------+
1 row in set (0.01 sec)
```

9 Display the name of the Department with the maximum number of Employees

```
mysql> select dept.deptname from employees, dept
    -> where employees.deptid = dept.deptid
    -> group by dept.deptid, deptname
    -> order by count(employees.empid) desc
    -> limit 1;
+-----------------+
| deptname        |
+-----------------+
| Human Resources |
+-----------------+
1 row in set (0.00 sec)
```