SQL Exercise 6

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

ANS÷

```
mysql> SELECT *
    -> FROM s
    -> WHERE STATUS = (
    ->     SELECT STATUS
    ->     FROM s
    ->     WHERE SNAME = 'CLARK'
    -> );
+------+-------+--------+--------+
| S#   | SNAME | STATUS | CITY   |
+------+-------+--------+--------+
| S4   | Clark | 25     | Berlin |
+------+-------+--------+--------+
1 row in set (0.06 sec)
```

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

ANS÷

```
mysql> SELECT *
    -> FROM semp
    -> WHERE DEPTNO = (
    ->     SELECT DEPTNO
    ->     FROM semp
    ->     WHERE EMPNAME = 'MILLER'
    -> );
+-------+---------+-------+--------+----------+
| EMPNO | EMPNAME | BASIC | DEPTNO | DEPTHEAD |
+-------+---------+-------+--------+----------+
| 0002  | HIREN   |  8000 | 20     | NULL     |
| E002  | CLARK   |  6000 | 20     | E001     |
| E003  | SMITH   |  4000 | 20     | E002     |
| E006  | MILLER  |  4500 | 20     | E002     |
| E009  | FORD    |  4700 | 20     | E002     |
```

```
+-------+---------+-------+--------+----------+
5 rows in set (0.00 sec)
```

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

ANS÷

```
mysql> SELECT *
    -> FROM p
    -> WHERE CAST(WEIGHT AS UNSIGNED) > ALL (
    ->     SELECT CAST(WEIGHT AS UNSIGNED)
    ->     FROM p
    ->     WHERE COLOR = 'Red'
    -> );
+------+--------+--------+--------+--------+
| P#   | PNAME  | COLOR  | WEIGHT | CITY   |
+------+--------+--------+--------+--------+
| P4   | Spring | Green  | 10.0   | Berlin |
| P6   | Stud   | Yellow | 15.0   | Rome   |
| P7   | Shaft  | Blue   | 13.5   | Paris  |
+------+--------+--------+--------+--------+
3 rows in set, 5 warnings (0.02 sec)
```

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

ANS÷

```
mysql> SELECT *
    -> FROM j
    -> WHERE CITY = (
    ->     SELECT CITY
    ->     FROM j
    ->     WHERE JNAME = 'TAPE'
    -> );
+------+-------+------+
| J#   | JNAME | CITY |
+------+-------+------+
| J1   | TAPE  | PUNE |
| J3   | MOTOR | PUNE |
| J5   | WIRE  | PUNE |
```

```
+------+-------+------+
3 rows in set (0.00 sec)
```

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

```
mysql> SELECT *
    -> FROM p
    -> WHERE WEIGHT < ALL (
    ->     SELECT WEIGHT
    ->     FROM p
    ->     WHERE COLOR = 'GREEN'
    -> );
+------+-------+-------+--------+------+
| P#   | PNAME | COLOR | WEIGHT | CITY |
+------+-------+-------+--------+------+
| P1   | Bolt  | RED   | 10     | PUNE |
+------+-------+-------+--------+------+
1 row in set (0.00 sec)
```

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

```
mysql> SELECT s.SNAME
    -> FROM s
    -> JOIN spj ON s.`S#` = spj.`S#`
    -> WHERE spj.QTY = (
    ->     SELECT MAX(QTY)
    ->     FROM spj
    -> );
+--------+
| SNAME  |
+--------+
| Miller |
+--------+
1 row in set (0.02 sec)
```

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

```
mysql> SELECT EMPNAME
    -> FROM semp
    -> WHERE BASIC = (
    ->     SELECT MIN(BASIC)
    ->     FROM semp
    -> );
+---------+
| EMPNAME |
+---------+
| JAMES   |
+---------+
1 row in set (0.00 sec)
```

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

```
mysql> SELECT s.SNAME
    -> FROM s
    -> JOIN spj ON s.`S#` = spj.`S#`
    -> GROUP BY s.SNAME
    -> ORDER BY SUM(spj.QTY) DESC
    -> LIMIT 1;
+-------+
| SNAME |
+-------+
| NULL  |
+-------+
1 row in set (0.01 sec)
```

9. Display the name of the Department with the maximum number of Employees.
ANS÷

```
mysql> SELECT d.DEPTNAME
    -> FROM sdept d
```

```
    -> JOIN semp e ON d.DEPTNO = e.DEPTNO
    -> GROUP BY d.DEPTNAME
    -> ORDER BY COUNT(*) DESC
    -> LIMIT 1;
+----------+
| DEPTNAME |
+----------+
| Training |
+----------+
1 row in set (0.01 sec)
```