

SQL Exercise 6

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

Ans:

```
SELECT Sname
FROM Supplier
WHERE Status = (SELECT Status FROM Supplier WHERE Sname = 'CLARK');
```

```
mysql> SELECT Sname
-> FROM Supplier
-> WHERE Status = (SELECT Status FROM Supplier WHERE Sname = 'CLARK');
Empty set (0.00 sec)
```

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

Ans:

```
SELECT *
FROM Employees
WHERE DepartmentID = (SELECT DepartmentID
FROM Employees
WHERE EmployeeName = 'MILLER');
```

```
mysql> SELECT *
-> FROM Employees
-> WHERE DepartmentID = (SELECT DepartmentID
-> FROM Employees
-> WHERE EmployeeName = 'MILLER');
```

EmployeeID	EmployeeName	DepartmentID	Salary	HireDate	City	ManagerID
1	MILLER	101	75000.00	2020-05-01	New York	NULL
2	SMITH	101	80000.00	2019-06-15	New York	1
5	BROWN	101	72000.00	2018-11-10	New York	1

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

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

Ans:

```
SELECT *  
FROM Parts  
WHERE Weight > (SELECT MAX(Weight)  
FROM Parts  
WHERE Color = 'Red');
```

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

Ans:

```
SELECT *  
FROM Projects  
WHERE City = (SELECT City  
FROM Projects  
WHERE ProjectName = 'TAPE');
```

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

Ans:

```
SELECT *  
FROM Parts  
WHERE Weight < (SELECT MIN(Weight)  
FROM Parts  
WHERE Color = 'Green');
```

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

Ans:

```
SELECT SupplierName  
FROM Sales  
WHERE Quantity = (SELECT MAX(Quantity)  
FROM Sales);
```

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

Ans:

SELECT EmployeeName FROM Employees WHERE Salary = (SELECT MIN(Salary) FROM Employees) ;

```
mysql> SELECT EmployeeName
-> FROM Employees
-> WHERE Salary = (SELECT MIN(Salary)
-> FROM Employees);

+-----+
| EmployeeName |
+-----+
| JOHNSON      |
+-----+
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:

**SELECT SupplierName
FROM Suppliers
WHERE SupplierID = (SELECT SupplierID
FROM Sales
GROUP BY SupplierID
ORDER BY SUM(Quantity) DESC
LIMIT 1);**

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

Ans:

```
SELECT DepartmentName  
FROM Departments  
WHERE DepartmentID = (SELECT DepartmentID  
FROM Employees  
GROUP BY DepartmentID  
ORDER BY COUNT(*) DESC  
LIMIT 1);
```

