

## ❖ EXERCISE 6:

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

```
⇒ SELECT `S`.`Sname` AS SupplierName,  
`S`.`Status` AS Status FROM `S` WHERE  
`S`.`Status` = (SELECT `Status` FROM `S` WHERE  
`Sname` = 'CLARK');
```

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

```
⇒ SELECT `EMPNAME` AS EmployeeName,  
`DEPTNO` AS DepartmentNumber FROM `SEMP`  
WHERE `DEPTNO` = (SELECT `DEPTNO` FROM `SEMP`  
WHERE `EMPNAME` = 'MILLER');
```

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

```
⇒ SELECT `P`.`Pname` AS PartName, `P`.`Weight` AS  
Weight FROM `P` WHERE `P`.`Weight` > ALL  
(SELECT `Weight` FROM `P` WHERE `Color` = 'Red');
```

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

```
⇒ SELECT `J`.`Jname` AS ProjectName, `J`.`City` AS  
ProjectCity FROM `J` WHERE `J`.`City` = (SELECT  
`City` FROM `J` WHERE `Jname` = 'TAPE');
```

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

⇒ SELECT `P`.`Pname` AS PartName, `P`.`Weight` AS Weight FROM `P` WHERE `P`.`Weight` < ALL (SELECT `Weight` FROM `P` WHERE `Color` = 'Green');

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

⇒ SELECT `S`.`Sname` AS SupplierName, `SPJ`.`Qty` AS MaximumQuantity FROM `SPJ` JOIN `S` ON `SPJ`.`S#` = `S`.`S#` WHERE `SPJ`.`Qty` = (SELECT MAX(`Qty`) FROM `SPJ`) LIMIT 1;

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

⇒ SELECT `EMPNAME` AS EmployeeName, `BASIC` AS MinimumSalary FROM `SEMP` WHERE `BASIC` = (SELECT MIN(`BASIC`) FROM `SEMP`);

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

⇒ SELECT `S`.`Sname` AS SupplierName, SUM(`SPJ`.`Qty`) AS TotalQuantity FROM `SPJ` JOIN `S` ON `SPJ`.`S#` = `S`.`S#` GROUP BY `S`.`Sname` ORDER BY TotalQuantity DESC LIMIT 1;

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

```
⇒ SELECT  `D`.`DEPTNAME` AS DepartmentName,  
          COUNT(`E`.`EMPNO`) AS EmployeeCount FROM  
          `SDEPT` D JOIN  `SEMP` E ON D.`DEPTNO` =  
E.`DEPTNO` GROUP BY D.`DEPTNAME` ORDER BY  
EmployeeCount DESC LIMIT 1;
```