

SQL Exercise 5

1. Display the Supplier name and the Quantity sold.

```
mysql> select distinct supplier.sname,spj.qty from supplier,spj;
```

2. Display the Part name and Quantity sold.

```
mysql> SELECT p.pname, SUM(s.qty) AS total_quantity_sold  
-> FROM Parts p  
-> JOIN spj s ON p.`P#` = s.`P#`  
-> GROUP BY p.pname;
```

3. Display the Project name and Quantity sold.

```
mysql> select p.jname,sum(s.qty) as total_qty  
-> from projects p join spj s on p.`J#`=s.`J#`  
-> group by p.jname;
```

4. Display the Supplier name, Part name, Project name and Quantity sold.

```
mysql> SELECT s.sname, p.pname, j.jname, c.qty  
-> FROM spj c  
-> JOIN supplier s ON s.`S#` = c.`S#`  
-> JOIN parts p ON p.`P#` = c.`P#`  
-> JOIN projects j ON j.`J#` = c.`J#`;
```

5. Display the Supplier name, Supplying Parts to a Project in the same City.

```
mysql> select supplier.sname,parts.pname,projects.jname,projects.city  
from  
-> supplier,parts,projects  
-> where supplier.city=parts.city and
```

-> parts.city=projects.city;

6. Display the Part name that is 'Red' is color, and the Quantity sold.

```
mysql> select parts.pname,spj.qty from spj join parts on spj.`P#`=parts.`P#`  
where parts.color='red';
```

7. Display all the Quantity sold by Suppliers with the Status = 20.

```
mysql> select supplier.sname,spj.qty,supplier.status from spj join supplier  
on spj.`S#`=supplier.`S#` where supplier.status=20;
```

8. Display all the Parts and Quantity with a Weight > 14.

```
mysql> select parts.pname,spj.qty from spj join parts on spj.`P#`=parts.`P#`  
where parts.weight>14;
```

9. Display all the Project names and City, which has bought more than 500 Parts.

```
mysql> select projects.jname,projects.city,spj.qty from projects join spj on  
projects.`J#`=spj.`J#` where spj.qty>500;
```

10. Display all the Part names and Quantity sold that have a Weight less than 15.

```
mysql> select parts.pname,spj.qty from spj join parts on spj.`P#`=parts.`P#`  
where parts.weight<15;
```

11. Display all the Employee names and the name of their Managers.

```
select e.name as EmpName, m.name as ManagerName  
from emp e  
left join emp m on e.manager_id = m.emp_id;
```

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 emp where  
emp_name='CLARK');
```

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

```
mysql> select * from emp where dept_id=(select dept_id from emp where  
emp_name='miller');
```

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

```
mysql> select * from parts where weight> (select weight from parts where  
color='red');
```

4. Display all the Projects going on in the same city as the project 'TAPE'.
//tape=project 2

```
mysql> select * from projects where jname=all(select jname from projects  
where jname='project 2');
```

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

```
mysql> select pname,weight,color from parts where weight< (select weight  
from parts where color='green');
```

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

```
mysql> select supplier.sname from supplier join spj on  
supplier.`S#`=spj.`S#`
```

```
where spj.qty=(select max(qty) from spj);
```

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

```
mysql> select emp_name from emp where salary=  
-> (select min(salary) from emp);
```

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

```
mysql> select sname,sum(qty) from supplier,spj where  
supplier.`S#`=spj.`S#` group by sname order by sum(qty) desc limit 1;
```

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

```
mysql> select distinct dept.dept_name,count(emp.dept_id) from emp,dept  
where dept.dept_id=emp.dept_id group by emp.dept_id;
```