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ROLL NO-15/CA/639

ASSIGNMENT – II

1. Display the name of all employees who work in department D1 or D2 with salaries greater than equal to 2500.

```
mysql> select Ename from Employee where (Deptid="D1" or Deptid="D2") and salary>=2500;
+-------+
| Ename |
+-------+
| Smith |
| Peter |
| Paul  |
| john  |
| Blake |
+-------+
5 rows in set (0.00 sec)
```

2. List the Employee ids that have been assigned Project P3 or P4 or both.

```
mysql> select Empid from Employee inner join Project on Employee.Deptid=Project.
Deptid where(projid="P3" or Projid="P4") or (Projid="P3" and Projid="p4");
+-------+
| Empid |
+-------+
| 11    |
| 15    |
| 2     |
| 7     |
| 11    |
| 15    |
| 2     |
| 7     |
+-------+
8 rows in set (0.00 sec)
```

3. Find the Departments whose average salary in greater than 4000.

```
mysql> select Deptid from Employee group by(Deptid) having avg(salary)>4000;
+--------+
| Deptid |
+--------+
| D4     |
+--------+
1 row in set (0.00 sec)
```

4. Display the name of Employees who work in Department D3 or D5 but are not managers.

```
mysql> select Ename from Employee where(Deptid="D3" or Deptid="D5") and "manager" not in(Desig);
+-------+
| Ename |
+-------+
| Adam  |
| Dave  |
| Bill  |
| Allen |
| Ford  |
+-------+
5 rows in set (0.00 sec)
```

5. Display the name of Employees and the corresponding Loacations they are working in.

```
mysql> select Ename,Location from Employee inner join Department on Employee.Deptid=Department.Deptid;
+--------+----------+
| Ename  | Location |
+--------+----------+
| Smith  | New York |
| Peter  | New York |
| john   | New York |
| Martin | New York |
| Tim    | Texas    |
| Paul   | Texas    |
| Blake  | Texas    |
| Adam   | chicago  |
| Bill   | chicago  |
| Allen  | chicago  |
| Clarke | chicago  |
| George | New York |
| Dave   | Detroit  |
| Ford   | Detroit  |
| Scott  | Detroit  |
+--------+----------+
15 rows in set (0.00 sec)
```

6. Display the name of Employees that have not been assigned any projects.

```
mysql> select Employee.Ename from Employee left join Project on Employee.Deptid=
Project.Deptid where Project.Deptid is null;
+-------+
| Ename |
+-------+
| Dave  |
| Ford  |
| Scott |
+-------+
3 rows in set (0.00 sec)
```

7. List the name of the departments that do not have any projects under them.

```
mysql> select Department.Deptid from Department left join Project on Department.
Deptid=Project.Deptid where Project.Deptid is null;
+--------+
| Deptid |
+--------+
| D5     |
+--------+
1 row in set (0.00 sec)
```

8. Find out the salary of the employee who has been assigned the project with highest budget.

```
mysql> select Employee.Ename from Employee inner join Project on Employee.Deptid
=Project.Deptid where Budget=(select max(Budget) from Project);
+--------+
| Ename  |
+--------+
| Adam   |
| Bill   |
| Allen  |
| Clarke |
+--------+
4 rows in set (0.00 sec)
```

9. What projects are working in New York?

```
mysql> select Projid from Project inner join Department on Project.Deptid=Depart
ment.Deptid where Location="New York";
+--------+
| Projid |
+--------+
| p1     |
| p5     |
+--------+
2 rows in set (0.00 sec)
```

10. Which projects are being managed by the manager 'john'.

```
mysql> select projid from Project inner join Employee on Project.Deptid=Employee
.Deptid where Manager="john";
+--------+
| projid |
+--------+
| p5     |
+--------+
1 row in set, 1 warning (0.00 sec)
```

11. List the names of all employees and the corresponding Projects they are working on.(List those employees also who do not have any projects).

```
mysql> select Ename,Projid from Employee inner join Project on Employee.Deptid=P
roject.Deptid;
+--------+--------+
| Ename  | Projid |
+--------+--------+
| Smith  | p1     |
| Peter  | p1     |
| john   | p1     |
| Martin | p1     |
| Tim    | p2     |
| Paul   | p2     |
| Blake  | p2     |
| Adam   | P3     |
| Bill   | P3     |
| Allen  | P3     |
| Clarke | P3     |
| Adam   | p4     |
| Bill   | p4     |
| Allen  | p4     |
| Clarke | p4     |
| George | p5     |
+--------+--------+
16 rows in set (0.00 sec)
```

12. Display the names of employees who do not work in 'New York' or 'Texas'.

```
mysql> select Ename from Employee inner join Department on Employee.Deptid=Depar
tment.Deptid where Location!="New York" and  Location!="Texas";
+--------+
| Ename  |
+--------+
| Adam   |
| Bill   |
| Allen  |
| Clarke |
| Dave   |
| Ford   |
| Scott  |
+--------+
7 rows in set (0.00 sec)
```

13. Find the Employees of department D2 whose salary is greater than at least one employee in the department D1.

```
mysql> select Ename from Employee where Deptid="D2" and salary>exists(select
 salary from Employee where deptid="D1");
+-------+
| Ename |
+-------+
| Tim   |
| Paul  |
| Blake |
+-------+
3 rows in set (0.00 sec)
```

14. Find the employees of department D1 whose salary is greater than or equal to the salary of all employees of department D2.

```
mysql> select Ename from Employee where Deptid="D1" and salary>=exists(selec
t salary from Employee where deptid="D2");
+--------+
| Ename  |
+--------+
| Smith  |
| Peter  |
| john   |
| Martin |
+--------+
4 rows in set (0.00 sec)
```

15. Which locations have 3 or more employees working.

```
mysql> select Location from Employee inner join Department on Employee.depti
d=Department.Deptid group by(Employee.Deptid) having(count(Employee.Deptid))
>=3;
+----------+
| Location |
+----------+
| New York |
| Texas    |
| chicago  |
| Detroit  |
+----------+
4 rows in set (0.00 sec)
```