

## Assignment\_7

```
mysql>
mysql> SELECT e1.ename AS employee_name
-> FROM Emp e1
-> JOIN Emp e2 ON e1.mgr = e2.empno
-> WHERE e1.sal > e2.sal;
```

```
+-----+
| employee_name |
+-----+
| Anna Johnson  |
+-----+
1 row in set (0.00 sec)
```

```
mysql> SELECT e.ename AS employee_name
-> FROM Emp e
-> JOIN (
->     SELECT deptno, MAX(sal) AS max_salary
->     FROM Emp
->     GROUP BY deptno
-> ) dept_max
-> ON e.deptno = dept_max.deptno AND e.sal = dept_max.max_salary;
```

```
+-----+
| employee_name |
+-----+
| John Doe      |
| Anna Johnson  |
| Chris Lee     |
+-----+
3 rows in set (0.00 sec)
```

```
mysql> SELECT e1.ename AS employee_name_1, e2.ename AS employee_name_2, d.loc
-> FROM Emp e1
-> JOIN Dept d ON e1.deptno = d.deptno
-> JOIN Emp e2 ON e1.deptno = e2.deptno AND e1.empno != e2.empno
-> JOIN Dept d2 ON e2.deptno = d2.deptno AND d.loc = d2.loc;
```

```
+-----+-----+-----+
| employee_name_1 | employee_name_2 | loc      |
+-----+-----+-----+
| John Doe        | Jane Smith      | New York |
| John Doe        | Emily Davis     | New York |
| Jane Smith      | John Doe        | New York |
| Jane Smith      | Emily Davis     | New York |
| Emily Davis     | John Doe        | New York |
| Emily Davis     | Jane Smith      | New York |
| Michael Brown   | Anna Johnson    | San Francisco |
| Anna Johnson    | Michael Brown   | San Francisco |
+-----+-----+-----+
```

8 rows in set (0.00 sec)

```
mysql> SELECT e.ename AS employee_name
-> FROM Emp e
-> JOIN (
->     SELECT deptno, MIN(sal) AS min_salary
->     FROM Emp
->     GROUP BY deptno
-> ) dept_min
-> ON e.deptno = dept_min.deptno AND e.sal = dept_min.min_salary;
```

```
+-----+
| employee_name |
+-----+
```

```
| Emily Davis |
| Michael Brown |
| Chris Lee |
+-----+
```

3 rows in set (0.00 sec)

```
mysql> SELECT d.dname AS department_name
-> FROM Dept d
-> LEFT JOIN Emp e ON d.deptno = e.deptno
-> WHERE e.empno IS NULL;
```

Empty set (0.00 sec)

```
mysql> select * from emp;
```

```
+-----+-----+-----+-----+-----+-----+-----+
+-----+
| empno | ename          | job          | mgr | hiredate      | sal          | comm      |
deptno |
+-----+-----+-----+-----+-----+-----+-----+
+-----+
| 1 | John Doe      | Manager      | NULL | 1994-06-15    | 60000.00     | NULL      |
10 |
| 2 | Jane Smith    | Analyst      | 1    | 1999-08-24    | 50000.00     | 500.00    |
10 |
| 3 | Emily Davis   | Clerk        | 1    | 2000-11-30    | 40000.00     | NULL      |
10 |
| 4 | Michael Brown | Developer    | NULL | 2005-12-15    | 70000.00     | NULL      |
20 |
| 5 | Anna Johnson  | Team Lead    | 4    | 2010-03-23    | 80000.00     | 1000.00   |
20 |
| 6 | Chris Lee     | Accountant   | NULL | 2000-05-01    | 55000.00     | 800.00    |
30 |
+-----+-----+-----+-----+-----+-----+-----+
+-----+
```

6 rows in set (0.00 sec)

```
mysql>
```