

ASJID TAHIR

19P-0085

DATA BASE LAB

ASSIGNMENT # 02:

Sub-Queries:

```
--Question no 01:  
--Display the employee who got the maximum salary.  
select * from emp  
where salary = (select Max(salary) from emp);
```

```
MariaDB [company]> select * from emp  
-> where salary = (select Max(salary) from emp);  
+-----+-----+-----+-----+-----+-----+-----+-----+  
| empno | ename | job      | mgr  | hiredate   | salary | commission | deptno |  
+-----+-----+-----+-----+-----+-----+-----+-----+  
| 7839 | King  | President | NULL | 2021-07-31 | 6500   | NULL       | 10     |  
+-----+-----+-----+-----+-----+-----+-----+-----+  
1 row in set (0.012 sec)
```

```
--Question no 02:  
--Display the employees who are working in Sales department.  
--FOR DISPLAYING EMPLOYEES NAME  
select ename from emp e , dept d  
where e.deptno = d.deptno AND d.dname = 'sales';  
--FOR DISPLAYING ALL DETAILS OF EMPLOYEES  
select * from emp e , dept d  
where e.deptno = d.deptno AND d.dname = 'sales';
```

```
MariaDB [company]> select ename from emp e , dept d  
-> where e.deptno = d.deptno AND d.dname = 'sales';  
+-----+  
| ename |  
+-----+  
| Allen |  
| Ward  |  
| Martin|  
| Blake |  
| Turner|  
| James |  
+-----+  
6 rows in set (0.001 sec)
```

```
MariaDB [company]> select * from emp e , dept d
->
-> where e.deptno=d.deptno;
```

empno	ename	job	mgr	hiredate	salary	commission	deptno	deptno	dname	location
7782	Clark	Manager	7839	2021-07-31	2850	NULL	10	10	Accounting	New York
7839	King	President	NULL	2021-07-31	6500	NULL	10	10	Accounting	New York
7934	Miller	Clerk	7782	2021-07-31	1700	NULL	10	10	Accounting	New York
7369	Smith	Clerk	7902	2021-07-31	1200	NULL	20	20	Research	Dallas
7566	Jones	Manager	7839	2021-07-31	3375	NULL	20	20	Research	Dallas
7788	Scott	Analyst	7566	2021-07-31	3500	NULL	20	20	Research	Dallas
7813	David	Clerk	7788	2021-07-31	1500	NULL	20	20	Research	Dallas
7876	Adams	Clerk	7788	2021-07-31	1500	NULL	20	20	Research	Dallas
7902	Ford	Analyst	7566	2021-07-31	3500	NULL	20	20	Research	Dallas
7499	Allen	Salesman	7566	2021-07-31	2000	500	30	30	Sales	Chicago
7521	Ward	Salesman	7698	2021-07-31	1650	800	30	30	Sales	Chicago
7654	Martin	Salesman	7698	2021-07-31	1650	1400	30	30	Sales	Chicago
7698	Blake	Manager	7839	2021-07-31	3250	NULL	30	30	Sales	Chicago
7844	Turner	Salesman	7698	2021-07-31	1900	0	30	30	Sales	Chicago
7900	James	Clerk	7698	2021-07-31	1350	NULL	30	30	Sales	Chicago

15 rows in set (0.001 sec)

```
--Question no 03:
--Display the employees who are working in "New York".
select * from emp
where deptno = (select deptno from dept where location = 'New York');
```

```
MariaDB [company]> select * from emp
-> where deptno = (select deptno from dept where location = 'New York');
```

empno	ename	job	mgr	hiredate	salary	commission	deptno
7782	Clark	Manager	7839	2021-07-31	2850	NULL	10
7839	King	President	NULL	2021-07-31	6500	NULL	10
7934	Miller	Clerk	7782	2021-07-31	1700	NULL	10

3 rows in set (0.001 sec)

```
--Question no 05:
--Find out no. of employees working in "Sales" department.
select * from emp
where salary > ALL (select salary from emp where deptno = '30');
```

```
MariaDB [company]> select * from emp
-> where salary > ALL (select salary from emp where deptno = '30');
```

empno	ename	job	mgr	hiredate	salary	commission	deptno
7566	Jones	Manager	7839	2021-07-31	3375	NULL	20
7788	Scott	Analyst	7566	2021-07-31	3500	NULL	20
7839	King	President	NULL	2021-07-31	6500	NULL	10
7902	Ford	Analyst	7566	2021-07-31	3500	NULL	20

4 rows in set (0.001 sec)

```
--Question no 06:
--List out the employees who earn more than the lowest salary in department 30.
```

```

select * from emp
where salary > Any (select salary from emp where deptno = '30');
MariaDB [company]> select * from emp
-> where salary > Any (select salary from emp where deptno = '30');
+-----+-----+-----+-----+-----+-----+-----+-----+
| empno | ename  | job      | mgr  | hiredate | salary | commission | deptno |
+-----+-----+-----+-----+-----+-----+-----+-----+
| 7499 | Allen  | Salesman | 7566 | 2021-07-31 | 2000 | 500 | 30 |
| 7521 | Ward   | Salesman | 7698 | 2021-07-31 | 1650 | 800 | 30 |
| 7566 | Jones  | Manager  | 7839 | 2021-07-31 | 3375 | NULL | 20 |
| 7654 | Martin | Salesman | 7698 | 2021-07-31 | 1650 | 1400 | 30 |
| 7698 | Blake  | Manager  | 7839 | 2021-07-31 | 3250 | NULL | 30 |
| 7782 | Clark  | Manager  | 7839 | 2021-07-31 | 2850 | NULL | 10 |
| 7788 | Scott  | Analyst  | 7566 | 2021-07-31 | 3500 | NULL | 20 |
| 7813 | David  | Clerk    | 7788 | 2021-07-31 | 1500 | NULL | 20 |
| 7839 | King   | President | NULL | 2021-07-31 | 6500 | NULL | 10 |
| 7844 | Turner | Salesman | 7698 | 2021-07-31 | 1900 | 0 | 30 |
| 7876 | Adams  | Clerk    | 7788 | 2021-07-31 | 1500 | NULL | 20 |
| 7902 | Ford   | Analyst  | 7566 | 2021-07-31 | 3500 | NULL | 20 |
| 7934 | Miller | Clerk    | 7782 | 2021-07-31 | 1700 | NULL | 10 |
+-----+-----+-----+-----+-----+-----+-----+-----+
13 rows in set (0.001 sec)

```

```

--Question no 04:
--Find out no. of employees working in "Sales" department.
select count(*) from emp natural join dept
where dname=(select dname from dept where
dname='sales');
MariaDB [company]> select count(*) from emp natural join dept
-> where dname=(select dname from dept where dname='sales');
+-----+
| count(*) |
+-----+
| 6 |
+-----+
1 row in set (0.002 sec)

```