

**Experiment No. – 07**

Write SQL queries for the following :

- (a) List all employee who work in Dallas or have joined the company as manager before 82.

```
SQL> SELECT e.ename,e.hiredate,e.mgr FROM emp1 e join dept d on
e.deptno=d.deptno WHERE d.loc = 'Dallas' OR (e.hireDate < '01-JAN-1982' AND e.mgr IS
NOT NULL);
```

```
SQL> SELECT e.ename,e.hiredate,e.mgr FROM emp1 e join dept d on e.deptno=d.deptno WHERE d.loc = 'Dallas' OR (e.hireDate < '01-JAN-1982' AND e.mgr IS
NOT NULL);
```

ENAME	HIREDATE	MGR
SMITH	17-DEC-80	7902
ALLEN	20-FEB-81	7698
WARD	22-FEB-81	7698
JONES	02-APR-81	7839
MARTIN	28-SEP-81	7698
BLAKE	01-MAY-81	7839
CLARK	09-JUN-81	7839
TURNER	08-SEP-81	7698
JAMES	03-DEC-81	7698
FORD	03-DEC-81	7566

10 rows selected.

- (b) List all employees who work in Boston and earn more than any employee working in Chicago.

```
select e1.empno , e1.ename from emp1 e1 JOIN dept e2 ON e1.deptno = e2.deptno
WHERE e1.SAL > (select sal from emp1 where e2.LOC = 'BOSTON' AND e2.LOC =
'CHICAGO');
```

```
SELECT e.ename, e.sal FROM emp1 e INNER JOIN dept d ON e.deptno = d.deptno
WHERE d.loc = 'BOSTON' AND e.sal > (SELECT MAX(sal) FROM emp1 WHERE
deptno IN (SELECT deptno FROM dept WHERE loc= 'CHICAGO'));
```

```
SQL> SELECT e.ename, e.sal FROM emp1 e INNER JOIN dept d ON e.deptno = d.deptno WHERE d.loc = 'BOSTON' AND e.sal > (SELECT MAX(sal) FROM emp1 WHERE
deptno IN (SELECT deptno FROM dept WHERE loc= 'CHICAGO'));
```

no rows selected

- (c) List name of the employee who earns the minimum salary.

```
select empno ,ename ,sal from emp1 where sal=(select min(sal) from emp1);
```

```
SQL> select empno ,ename ,sal from emp1 where sal=(select min(sal) from emp1);
```

EMPNO	ENAME	SAL
7369	SMITH	800

- (d) List all employees who work in the same post as Smith.

```
select empno, ename, job from emp1 where job=(select job from emp1 where
ename='SMITH');
```

```
SQL> select empno, ename, job from emp1 where job=(select job from emp1 where ename='SMITH');
```

EMPNO	ENAME	JOB
7369	SMITH	CLERK
7876	ADAMS	CLERK
7900	JAMES	CLERK
7934	MILLER	CLERK

SQL> |

- (e) List all employees who earn the lowest salary in their respective dept.

```
select e.empno ,e.ename , e.sal ,e.deptno from emp1 e inner join dept d on
e.deptno=d.deptno where e.sal =(select min(sal) from emp1 where dept
no=e.deptno);
```

```
SQL> select e.empno ,e.ename , e.sal ,e.deptno from emp1 e inner join dept d on e.deptno=d.deptno where e.sal =(select min(sal) from emp1 where dept
no=e.deptno);
```

EMPNO	ENAME	SAL	DEPTNO
7369	SMITH	800	20
7900	JAMES	950	30
7934	MILLER	1300	10

- (f) List all employees who earn more than every employee in the 'Sales' department.

```
select e1.empno , e1.ename ,e1.sal from emp1 e1 where sal>ALL (select e2.sal from
emp1 e2 where deptno =(select deptno from dept where dname='SALES'));
```

```
SQL> select e1.empno , e1.ename ,e1.sal from emp1 e1 where sal>ALL (select e2.sal from emp1 e2 where deptno =(select deptno from dept where dname='S
ALES'));
```

EMPNO	ENAME	SAL
7566	JONES	2975
7788	SCOTT	3000
7902	FORD	3000
7839	KING	5000

- (g) Find the job with the highest average salary.

```
select job ,avg(sal) from emp1 where job<>'PRESIDENT' group by job order by avg(sal) desc;
```

```
SQL> select job ,avg(sal) from emp1 where job<>'PRESIDENT' group by job order by avg(sal) desc;
```

JOB	AVG(SAL)
ANALYST	3000
MANAGER	2758.33333
SALESMAN	1400
CLERK	1037.5