

# DBMS LABORATORY 7

## LAB RECORD

NAME : ANIRBAN HAZRA

SECTION : CSE - 16

ROLL : 2005643

DATE : 08/03/2022

# ASSIGNMENT ON SUB-QUERY

TABLE USED FOR THIS ASSIGNMENT: “EMP TABLE” -

```
SQL> select * from emp;
```

EMPNO	ENAME	JOB	MGR	HIREDATE	SAL	COMM	DEPTNO
7369	SMITH	CLERK	7902	17-DEC-80	800		20
7499	ALLEN	SALESMAN	7698	20-FEB-81	1600	300	30
7521	WARD	SALESMAN	7698	22-FEB-81	1250	500	30
7566	JONES	MANAGER	7839	02-APR-81	2975		20
7654	MARTIN	SALESMAN	7698	28-SEP-81	1250	1400	30
7698	BLAKE	MANAGER	7839	01-MAY-81	2850		30
7782	CLARK	MANAGER	7839	09-JUN-81	2450		10
7788	SCOTT	ANALYST	7566	09-NOV-81	3000		20
7839	KING	PRESIDENT		17-NOV-81	5000		10
7844	TURNER	SALESMAN	7698	08-SEP-81	1500	0	30
7876	ADAMS	CLERK	7788	23-SEP-81	1100		20
7900	JAMES	CLERK	7698	03-DEC-81	950		30
7902	FORD	ANALYST	7566	03-DEC-81	3000		20
7934	MILLER	CLERK	7782	23-JAN-82	1300		10
5643	ANIRBAN						

15 rows selected.

## QUERIES

2. List the emps whose jobs same as Allen or smith.

```
SQL> select * from emp where job = (select job from emp where ename = 'ALLEN') or job = (select job from emp where ename = 'SMITH') ;
```

EMPNO	ENAME	JOB	MGR	HIREDATE	SAL	COMM	DEPTNO
7369	SMITH	CLERK	7902	17-DEC-80	800		20
7499	ALLEN	SALESMAN	7698	20-FEB-81	1600	300	30
7521	WARD	SALESMAN	7698	22-FEB-81	1250	500	30
7654	MARTIN	SALESMAN	7698	28-SEP-81	1250	1400	30
7844	TURNER	SALESMAN	7698	08-SEP-81	1500	0	30
7876	ADAMS	CLERK	7788	23-SEP-81	1100		20
7900	JAMES	CLERK	7698	03-DEC-81	950		30
7934	MILLER	CLERK	7782	23-JAN-82	1300		10

8 rows selected.

3. List the jobs of Deptno 10 those are not found in dept 20.

```
SQL> select distinct job from emp where job in ( select job from emp where deptno in (10) minus select job from emp where deptno in (20) ) ;
```

JOB  
-----  
PRESIDENT

SQL> Anirban Hazra

4. List the emps of Emp1 who are not found in deptno 20

```
SQL> select * from emp where deptno not in ( select deptno from emp where deptno = 20 ) ;
```

EMPNO	ENAME	JOB	MGR	HIREDATE	SAL	COMM	DEPTNO
7499	ALLEN	SALESMAN	7698	20-FEB-81	1600	300	30
7521	WARD	SALESMAN	7698	22-FEB-81	1250	500	30
7654	MARTIN	SALESMAN	7698	28-SEP-81	1250	1400	30
7698	BLAKE	MANAGER	7839	01-MAY-81	2850		30
7844	TURNER	SALESMAN	7698	08-SEP-81	1500	0	30
7900	JAMES	CLERK	7698	03-DEC-81	950		30
7782	CLARK	MANAGER	7839	09-JUN-81	2450		10
7839	KING	PRESIDENT		17-NOV-81	5000		10
7934	MILLER	CLERK	7782	23-JAN-82	1300		10

9 rows selected.

5. Find the details of highest paid employee.

```
SQL> select * from emp where sal in (select max(sal) from emp);
```

EMPNO	ENAME	JOB	MGR	HIREDATE	SAL	COMM	DEPTNO
7839	KING	PRESIDENT		17-NOV-81	5000		10

SQL> Anirban Hazra

6. List the emps who joined in 81 with job same as the most senior person of year 81.

```
SQL> select * from emp where job in (select job from emp where hiredate in (select min(hiredate) from emp where to_char(hiredate,'YYYY') ='1981'));
```

EMPNO	ENAME	JOB	MGR	HIREDATE	SAL	COMM	DEPTNO
7499	ALLEN	SALESMAN	7698	20-FEB-81	1600	300	30
7521	WARD	SALESMAN	7698	22-FEB-81	1250	500	30
7654	MARTIN	SALESMAN	7698	28-SEP-81	1250	1400	30
7844	TURNER	SALESMAN	7698	08-SEP-81	1500	0	30

7. List the details of the dept where the max no of emps are working.

```
SQL> select deptno from emp group by deptno having count(*) = (select max(count(*)) from emp group by deptno);
```

DEPTNO
30

8. Display the emps whose Mgr name is Jones

```
SQL> select * from emp where mgr in (select empno from emp where ename = 'JONES');
```

EMPNO	ENAME	JOB	MGR	HIREDATE	SAL	COMM	DEPTNO
7788	SCOTT	ANALYST	7566	09-NOV-81	3000		20
7902	FORD	ANALYST	7566	03-DEC-81	3000		20

9. List the names of emps who are getting the highest salary dept wise

```
SQL> select ename,deptno from emp where sal in (select max(sal) from emp group by deptno) ;
```

ENAME	DEPTNO
BLAKE	30
SCOTT	20
KING	10
FORD	20

10. List the emps whose salary is equal to average of maximum and minimum.

```
SQL> select * from emp where sal =(select (max(sal)+min(sal))/2 from emp);
```

no rows selected

11. List the name, sal, comm. For those emps whose net pay is  $\geq$  any other employee salary of the company.

```
SQL> select ename,sal,comm from emp where sal+nvl(comm,0) >= any (select sal from emp);
```

ENAME	SAL	COMM
KING	5000	
FORD	3000	
SCOTT	3000	
JONES	2975	
BLAKE	2850	
MARTIN	1250	1400
CLARK	2450	
ALLEN	1600	300
WARD	1250	500
TURNER	1500	0
MILLER	1300	
ADAMS	1100	
JAMES	950	
SMITH	800	

```
14 rows selected.
```

---

THANK

---

YOU

---