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Practical 2: Study of Data Manipulation Language Statement

A) Insert the following records in above created table

EMP TABLE

EMPNO	ENAME	JOB	MGR	HIREDATE	SAL	COMM	DEPTNO
7839	KING	PRESIDENT		17-Nov-81	5000		10
7698	BLAKE	MANAGER	7839	01-May-81	2850		30
7782	CLARK	MANAGER	7839	09-Jun-81	2450		10
7566	JONES	MANAGER	7839	02-Apr-81	2975		20
7788	SCOTT	ANALYST	7566	19-Apr-87	3000		20
7902	FORD	ANALYST	7566	03-Dec-81	3000		20
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-May-87	1100		20
7900	JAMES	CLERK	7698	03-Dec-81	950		30
7934	MILLER	CLERK	7782	23-Jan-82	1300		10

DEPT TABLE

DEPTNO	DNAME	LOC
10	ACCOUNTING	NEW YORK
20	RESEARCH	DALLAS
30	SALES	CHICAGO
40	OPERATIONS	BOSTON

```
SQL> insert into surabhi_DEPT values(10,'ACCOUNTING','NEW YORK');
```

```
1 row created.
```

```
SQL> insert into surabhi_DEPT values(20,'RESEARCH','DALLAS');
```

```
1 row created.
```

```
SQL> insert into surabhi_DEPT values(30,'SALES','CHICAGO');
```

```
1 row created.
```

```
SQL> insert into surabhi_DEPT values(40,'OPERATIONS','BOSTON');
```

```
1 row created.
```

```
SQL> select * from surabhi_DEPT;
```

DEPT_NO	DNAME	LOC
10	ACCOUNTING	NEW YORK
20	RESEARCH	DALLAS
30	SALES	CHICAGO
40	OPERATIONS	BOSTON

```

SQL> insert into surabhii_EMP values(7499,'ALLEN','SALESMAN',7698,'20-FEB-81',1600,300,30);
1 row created.

SQL> insert into surabhii_EMP values(7521,'WARD','SALESMAN',7698,'22-FEB-81',1250,500,30);
1 row created.

SQL> insert into surabhii_EMP values(7654,'MARTIN','SALESMAN',7698,'28-SEP-81',1250,1400,30);
1 row created.

SQL> insert into surabhii_EMP values(7844,'TURNER','SALESMAN',7698,'08-SEP-81',1500,0,30);
1 row created.

SQL> insert into surabhii_EMP values(7876,'ADAMS','CLERK',7788,'23-MAY-87',1100,NULL,20);
1 row created.

SQL> insert into surabhii_EMP values(7900,'JAMES','CLERK',7698,'03-DEC-81',950,NULL,30);
1 row created.

SQL> insert into surabhii_EMP values(7934,'MILLER','CLERK',7782,'23-JAN-82',1300,NULL,10);
1 row created.

```

```

SQL> set linesize 10000;
SQL> set pagesize 10000;
SQL> select * from surabhii_EMP;

```

EMP_NO	ENAME	JOB	MGR	HIREDATE	SAL	COMM	DEPT_NO
7839	KING	PRESIDENT		17-NOV-81	5000		10
7698	BLAKE	MANAGER	7839	01-MAY-81	2850		30
7782	CLARK	MANAGER	7839	09-JUN-81	2450		10
7566	JONES	MANAGER	7839	02-APR-81	2975		20
7788	SCOTT	ANALYST	7566	19-APR-87	3000		20
7902	FORD	ANALYST	7566	03-DEC-81	3000		20
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-MAY-87	1100		20
7900	JAMES	CLERK	7698	03-DEC-81	950		30
7934	MILLER	CLERK	7782	23-JAN-82	1300		10

```

14 rows selected.

```

B) Update and Delete Queries

1) Update the salary of employees working as CLERK by 500.

```
SQL> update surabhii_EMP  
2  set SAL=SAL+500  
3  where Job='CLERK';
```

4 rows updated.

```
SQL> select * from surabhii_EMP;
```

EMP_NO	ENAME	JOB	MGR	HIREDATE	SAL	COMM	DEPT_NO
7839	KING	PRESIDENT		17-NOV-81	5000		10
7698	BLAKE	MANAGER	7839	01-MAY-81	2850		30
7782	CLARK	MANAGER	7839	09-JUN-81	2450		10
7566	JONES	MANAGER	7839	02-APR-81	2975		20
7788	SCOTT	ANALYST	7566	19-APR-87	3000		20
7902	FORD	ANALYST	7566	03-DEC-81	3000		20
7369	SMITH	CLERK	7902	17-DEC-80	1300		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-MAY-87	1600		20
7900	JAMES	CLERK	7698	03-DEC-81	1450		30
7934	MILLER	CLERK	7782	23-JAN-82	1800		10

14 rows selected.

2) Update the manager of James as CLARK.

```
SQL> update surabhii_EMP  
2  set Job='CLARK'  
3  where Ename='JAMES';
```

1 row updated.

```
SQL> select * from surabhii_EMP;
```

EMP_NO	ENAME	JOB	MGR	HIREDATE	SAL	COMM	DEPT_NO
7839	KING	PRESIDENT		17-NOV-81	5000		10
7698	BLAKE	MANAGER	7839	01-MAY-81	2850		30
7782	CLARK	MANAGER	7839	09-JUN-81	2450		10
7566	JONES	MANAGER	7839	02-APR-81	2975		20
7788	SCOTT	ANALYST	7566	19-APR-87	3000		20
7902	FORD	ANALYST	7566	03-DEC-81	3000		20
7369	SMITH	CLERK	7902	17-DEC-80	1300		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-MAY-87	1600		20
7900	JAMES	CLARK	7698	03-DEC-81	1450		30
7934	MILLER	CLERK	7782	23-JAN-82	1800		10

14 rows selected.

3) Change the role of Miller as MANAGER.

```
SQL> update surabhii_EMP  
  2  set Job='MANAGER'  
  3  where Ename='MILLER';
```

1 row updated.

```
SQL> select * from surabhii_EMP;
```

EMP_NO	ENAME	JOB	MGR	HIREDATE	SAL	COMM	DEPT_NO
7839	KING	PRESIDENT		17-NOV-81	5000		10
7698	BLAKE	MANAGER	7839	01-MAY-81	2850		30
7782	CLARK	MANAGER	7839	09-JUN-81	2450		10
7566	JONES	MANAGER	7839	02-APR-81	2975		20
7788	SCOTT	ANALYST	7566	19-APR-87	3000		20
7902	FORD	ANALYST	7566	03-DEC-81	3000		20
7369	SMITH	CLERK	7902	17-DEC-80	1300		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-MAY-87	1600		20
7900	JAMES	CLARK	7698	03-DEC-81	1450		30
7934	MILLER	MANAGER	7782	23-JAN-82	1800		10

14 rows selected.

4) Delete the records of Manager

```
SQL> delete from surabhii_EMP
  2  where Job='MANAGER';

4 rows deleted.

SQL> select * from surabhii_EMP;
```

EMP_NO	ENAME	JOB	MGR	HIREDATE	SAL	COMM	DEPT_NO
7839	KING	PRESIDENT		17-NOV-81	5000		10
7788	SCOTT	ANALYST	7566	19-APR-87	3000		20
7902	FORD	ANALYST	7566	03-DEC-81	3000		20
7369	SMITH	CLERK	7902	17-DEC-80	1300		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-MAY-87	1600		20
7900	JAMES	CLARK	7698	03-DEC-81	1450		30

```
10 rows selected.
```

5) Delete the records when salary is greater than 1000.

```
10 rows selected.

SQL> delete from surabhii_EMP
  2  where SAL>1000;

10 rows deleted.

SQL> select * from surabhii_EMP;

no rows selected
```