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 DEPT values(10,'ACOOUNTING','NEW TORK');

1 row created.

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

1 row created.

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

1 row created.

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

1 row created.

SQL> alter table DEPT
  2  rename to jovial_DEPT;

Table altered.

SQL> select * from jovial_DEPT;

   DEPT_NO DNAME          LOC
---------- -------------- -------------
        10 ACOOUNTING     NEW TORK
        20 RESEARCH       DALLAS
        30 SALES          CHICAGO
```

```
Select Run SQL Command Line                                    —    □    ×

SQL> select * from jovial_EMP
  2  ;

    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


    EMP_NO ENAME      JOB            MGR HIREDATE        SAL       COMM
---------- ---------- --------- ---------- --------- ---------- ----------
   DEPT_NO
----------
      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


    EMP_NO ENAME      JOB            MGR HIREDATE        SAL       COMM
---------- ---------- --------- ---------- --------- ---------- ----------
   DEPT_NO
----------
      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


    EMP_NO ENAME      JOB            MGR HIREDATE        SAL       COMM
---------- ---------- --------- ---------- --------- ---------- ----------
```

B) Update and Delete Queries

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

```
Run SQL Command Line                                              —    □    ✕

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

4 rows updated.

SQL> select * from jovial_EMP
  2  ;

   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


   EMP_NO ENAME       JOB          MGR HIREDATE        SAL       COMM
---------- ---------- --------- ---------- --------- ---------- ----------
   DEPT_NO
----------
     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


   EMP_NO ENAME       JOB          MGR HIREDATE        SAL       COMM
---------- ---------- --------- ---------- --------- ---------- ----------
   DEPT_NO
----------
     7369 SMITH       CLERK        7902 17-DEC-80      1300
       20

     7499 ALLEN       SALESMAN     7698 20-FEB-81      1600        300
       30
```

2) Update the manager of James as CLARK.

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

   EMP_NO ENAME        JOB           MGR HIREDATE        SAL       COMM
---------- ---------- --------- ---------- --------- ---------- ----------
   DEPT_NO
----------
     7900 JAMES       CLARK         7698 03-DEC-81       950
       30
```

3) Change the role of Miller as MANAGER.

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

1 row updated.

SQL> select * from jovial_EMP;


   EMP_NO ENAME      JOB              MGR HIREDATE       SAL       COMM
---------- ---------- ---------- ---------- --------- ---------- ----------
   DEPT_NO
----------
     7900 JAMES      CLARK           7698 03-DEC-81      950
       30

     7934 MILLER     MANAGER         7782 23-JAN-82     1300
       10
```

4) Delete the records of Manager

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

4 rows deleted.
```

Select Run SQL Command Line   —   □   ✕

```
SQL> select * from jovial_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


   EMP_NO ENAME      JOB              MGR HIREDATE       SAL       COMM
---------- ---------- ---------- ---------- --------- ---------- ----------
   DEPT_NO
----------
     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


   EMP_NO ENAME      JOB              MGR HIREDATE       SAL       COMM
---------- ---------- ---------- ---------- --------- ---------- ----------
   DEPT_NO
----------
     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


   EMP_NO ENAME      JOB              MGR HIREDATE       SAL       COMM
---------- ---------- ---------- ---------- --------- ---------- ----------
   DEPT_NO
```

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

```
SQL> delete from jovial_EMP
  2  where SAL>1000;

8 rows deleted.

SQL> select * from jovial_EMP
  2  ;

   EMP_NO ENAME      JOB              MGR HIREDATE        SAL       COMM
---------- ---------- --------- ---------- --------- ---------- ----------
   DEPT_NO
----------
     7369 SMITH      CLERK           7902 17-DEC-80        800

       20

     7900 JAMES      CLARK           7698 03-DEC-81        950

       30
```