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 akshat_DEPT values(10,'ACCOUNTING','NEW YORK');

1 row created.

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

1 row created.

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

1 row created.

SQL> insert into akshat_DEPT values(40,'OPERATIONS','BOSTION');

1 row created.

SQL> select * form akshat_DEPT;
select * form akshat_DEPT
         *
ERROR at line 1:
ORA-00923: FROM keyword not found where expected


SQL> select * from akshat_DEPT;

   DEPT_NO DNAME          LOC
---------- -------------- ------------
        10 ACCOUNTING     NEW YORK
        20 RESEARCH       DALLAS
        30 SALES          CHICAGO
        40 OPERATIONS     BOSTION
```

```
SQL> insert into akshat_EMP values(7934,'MILLER','CLERK',7782,'23-JAN-82',1300,NULL,10);

1 row created.

SQL> select * from akshat_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


    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
---------- ---------- --------- ---------- --------- ---------- ----------
   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
----------
      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 akshat_EMP
  2  set SAL=SAL+500
  3  where Job='CLERK';

4 rows updated.
```

```
    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

      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       1600
        20


    EMP_NO ENAME      JOB              MGR HIREDATE         SAL       COMM
---------- ---------- --------- ---------- --------- ---------- ----------
   DEPT_NO
----------
      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 akshat_EMP
  2  set job='CLEARK'
  3  where Ename='JAMES';

1 row updated.

SQL>
```

```
    EMP_NO ENAME      JOB              MGR HIREDATE          SAL        COMM
---------- --------- --------- ---------- --------- ---------- ----------
    DEPT_NO
----------
      7900 JAMES      CLEARK          7698 03-DEC-81         1450
        30
```

3) Change the role of Miller as MANAGER.

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

1 row updated.


      7934 MILLER     MANAGER         7782 23-JAN-82         1800
        10
```

4) Delete the records of Manager

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

4 rows deleted.
```

```
SQL> select * from akshat_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        1300
        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        1600
        20


    EMP_NO ENAME      JOB              MGR HIREDATE          SAL       COMM
---------- ---------- --------- ---------- --------- ---------- ----------
    DEPT_NO
----------
      7900 JAMES      CLEARK          7698 03-DEC-81        1450
        30


10 rows selected.


SQL> select * from akshat_EMP;
```

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

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

10 rows deleted.

SQL> select * from akshat_EMP;

no rows selected
```