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

1 row created.

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

1 row created.

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

1 row created.

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

1 row created.

SQL> select * from aadil_dept
  2  ;

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

SQL>
```

```
SQL> select * from aadil_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.

SQL>
```

B) Update and Delete Queries

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

```
SQL> update aadil_emp
  2   set SAL=SAL+500
  3   where job='CLERK';

4 rows updated.

SQL>
```

```
  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
```

2) Update the manager of James as CLARK.

```
SQL> update aadil_emp
  2  set job='CLARK'
  3  where ename='JAMES';

1 row updated.

SQL>
```

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

3) Change the role of Miller as MANAGER.

```
SQL> update aadil_emp
  2   set job='MANAGER'
  3   where ename='MILLER';

1 row updated.

SQL>
```

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

4) Delete the records of Manager

```
SQL> delete from aadil_emp
  2   where job='MANAGER';

4 rows deleted.

SQL>
```

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		CLARK	7698	03-DEC-81	1450	

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

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

10 rows deleted.

SQL> select * from aadil_emp;

no rows selected

SQL>
```