PRACTICAL 2

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 panthiv_DEPT values(10, 'ACCOUNTING', 'NEW YORK');
1 row created.
SQL> insert into panthiv_DEPT values(20, 'RESEARCH', 'DALLAS');
1 row created.
SQL> insert into panthiv_DEPT values(30, 'SALES', 'CHICAGO');
1 row created.
SQL> insert into panthiv_DEPT values(40,'OPERATIONS','BOSTON');
1 row created.
SQL> select * from panthiv_DEPT;
  DEPT_NO DNAME
                          LOC
                          NEW YORK
        10 ACCOUNTING
        20 RESEARCH
                          DALLAS
        30 SALES
                          CHICAGO
        40 OPERATIONS
                          BOSTON
```

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

B) Update and Delete Queries

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

```
SQL> update panthiv_EMP
2 set SAL=SAL+500
3 where Job='CLERK';
4 rows updated.
```

DEPT_NO	COMM	SAL	MGR HIREDATE	JOB	ENAME	EMP_NO
10		5000	17-NOV-81	PRESIDENT	KING	7839
30		2850	7839 01-MAY-81	MANAGER	BLAKE	7698
10		2450	7839 09-JUN-81	MANAGER	CLARK	7782
20		2975	7839 02-APR-81	MANAGER	JONES	7566
20		3000	7566 19-APR-87	ANALYST	SCOTT	7788
20		3000	7566 03-DEC-81	ANALYST	FORD	7902
20		1300	7902 17-DEC-80	CLERK	SMITH	7369
30	300	1600	7698 20-FEB-81	SALESMAN	ALLEN	7499
30	500	1250	7698 22-FEB-81	SALESMAN	WARD	7521
30	1400	1250	7698 28-SEP-81	SALESMAN	MARTIN	7654
30	0	1500	7698 08-SEP-81	SALESMAN	TURNER	7844
20		1600	7788 23-MAY-87	CLERK	ADAMS	7876
30		1450	7698 03-DEC-81	CLERK	JAMES	7900
10		1800	7782 23-JAN-82	CLERK	MILLER	7934

2) Update the manager of James as CLARK.

```
QL> update panthiv_EMP
2 set Job='CLARK'
3 where Ename='JAMES';
. row updated.
```

DEPT_NO	COMM	SAL	HIREDATE	MGR	JOB	ENAME	EMP_NO
 10		5000	17-NOV-81		PRESIDENT	KING	7839
30		2850	01-MAY-81	7839	MANAGER	BLAKE	7698
10		2450	09-JUN-81	7839	MANAGER	CLARK	7782
20		2975	02-APR-81	7839	MANAGER	JONES	7566
20		3000	19-APR-87	7566	ANALYST	SCOTT	7788
20		3000	03-DEC-81	7566	ANALYST	FORD	7902
20		1300	17-DEC-80	7902	CLERK	SMITH	7369
30	300	1600	20-FEB-81	7698	SALESMAN	ALLEN	7499
30	500	1250	22-FEB-81	7698	SALESMAN	WARD	7521
30	1400	1250	28-SEP-81	7698	SALESMAN	MARTIN	7654
30	0	1500	08-SEP-81	7698	SALESMAN	TURNER	7844
20		1600	23-MAY-87	7788	CLERK	ADAMS	7876
30		1450	03-DEC-81	7698	CLARK	JAMES	7900
10		1800	23-JAN-82	7782	CLERK	MILLER	7934

3) Change the role of Miller as MANAGER.

```
SQL> update panthiv_EMP
2 set Job='MANAGER'
3 where Ename='MILLER';
1 row updated.
```

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

4) Delete the records of Manager

```
SQL> delete from panthiv_EMP
2 where Job='MANAGER';
4 rows deleted.
```

EMP_NO	ENAME	ЈОВ	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

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

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

10 rows deleted.

SQL> select * from panthiv_EMP;

no rows selected

SQL>
```