

## **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 tahir_DEPT values(10,'ACCOUNTING','NEW YORK');
```

```
1 row created.
```

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

```
1 row created.
```

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

```
1 row created.
```

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

```
1 row created.
```

```
SQL> select * from tahir_DEPT;
```

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

```
SQL> select * from tahirr_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 tahirr_EMP
2 set SAL=SAL+500
3 where Job='CLERK';
```

4 rows updated.

```
SQL> select * from tahirr_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 tahirr_EMP
2 set Job='CLARK'
3 where Ename='JAMES';
```

1 row updated.

```
SQL> select * from tahirr_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 tahirr_EMP
  2  set Job='MANAGER'
  3  where Ename='MILLER';
```

1 row updated.

7934	MILLER	MANAGER	7782	23-JAN-82	1800		10
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4) Delete the records of Manager

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

4 rows deleted.

EMP_NO	ENAME	JOB	MGR	HIREDATE	SAL	COMM
-----						
DEPT_NO						
-----						
7839 10	KING	PRESIDENT		17-NOV-81	5000	
7788 20	SCOTT	ANALYST	7566	19-APR-87	3000	
7902 20	FORD	ANALYST	7566	03-DEC-81	3000	
EMP_NO	ENAME	JOB	MGR	HIREDATE	SAL	COMM
-----						
DEPT_NO						
-----						
7369 20	SMITH	CLERK	7902	17-DEC-80	1300	
7499 30	ALLEN	SALESMAN	7698	20-FEB-81	1600	300
7521 30	WARD	SALESMAN	7698	22-FEB-81	1250	500
EMP_NO	ENAME	JOB	MGR	HIREDATE	SAL	COMM
-----						
DEPT_NO						
-----						
7654 30	MARTIN	SALESMAN	7698	28-SEP-81	1250	1400
7844 0 30	TURNER	SALESMAN	7698	08-SEP-81	1500	
7876 20	ADAMS	CLERK	7788	23-MAY-87	1600	

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

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

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

10 rows deleted.

```
SQL> select * from tahirr_EMP;
```

no rows selected