

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

OUTPUT:

```
create table EMP(EMPNO int primary key, ENAME varchar2(10) not null, JOB varchar(9), MGR int, HIREDATE date, SAL number(7,2), COMM int, DEPTNO int);
desc EMP;
insert into EMP values(7839, 'KING', 'PRESIDENT', null, (to_date('17-Nov-81', 'dd-mm-yyyy')), 5000, null, 10);
insert into EMP values(7698, 'BLAKE', 'MANAGER', 7839, (to_date('01-May-81', 'dd-mm-yyyy')), 2850, null, 30);
insert into EMP values(7782, 'CLARK', 'MANAGER', 7839, (to_date('09-Jun-81', 'dd-mm-yyyy')), 2450, null, 10);
insert into EMP values(7566, 'JONES', 'MANAGER', 7839, (to_date('02-Apr-81', 'dd-mm-yyyy')), 2975, null, 10);
insert into EMP values(7788, 'SCOTT', 'ANALYST', 7566, (to_date('19-Apr-87', 'dd-mm-yyyy')), 3000, null, 20);
insert into EMP values(7902, 'FORD', 'ANALYST', 7566, (to_date('03-Dec-81', 'dd-mm-yyyy')), 3000, null, 20);
insert into EMP values(7369, 'SMITH', 'CLERK', 7902, (to_date('17-Dec-80', 'dd-mm-yyyy')), 800, null, 20);
insert into EMP values(7499, 'ALLEN', 'SALESMAN', 7698, (to_date('20-Feb-81', 'dd-mm-yyyy')), 1600, 300, 30);
insert into EMP values(7521, 'WARD', 'SALESMAN', 7698, (to_date('22-Feb-81', 'dd-mm-yyyy')), 1250, 500, 30);
insert into EMP values(7654, 'MARTIN', 'SALESMAN', 7698, (to_date('28-Sep-81', 'dd-mm-yyyy')), 1600, 1400, 30);
insert into EMP values(7844, 'TURNER', 'SALESMAN', 7698, (to_date('08-Sep-81', 'dd-mm-yyyy')), 1500, 0, 30);
```

Results Explain Describe Saved SQL History

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	1600	1400	30
7844	TURNER	SALESMAN	7698	08-SEP-81	1500	0	30
7876	ADAMS	CLLERK	7788	28-MAY-87	1100	-	20
7900	JAMES	CLLERK	7698	23-JAN-81	950	-	30
7934	MILLER	CLLERK	7782	23-JAN-82	1300	-	10

14 rows returned in 0.00 seconds

[CSV Export](#)

PRACTICAL 2

DEPT TABLE

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

OUTPUT:

 Run SQL Command Line

```
SQL> desc DEPT;
```

Name	Null?	Type
DEPTNO	NOT NULL	NUMBER(38)
DNAME	NOT NULL	VARCHAR2(14)
LOC		VARCHAR2(13)

```
SQL> insert into DEPT values(10, 'ACCOUNTING', 'NEW YORK');
```

```
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> COMMIT;
```

```
Commit complete.
```

```
SQL> select * from DEPT;
```

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

```
SQL>
```

PRACTICAL 2

B) Update and Delete Queries.

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

Run SQL Command Line

```
SQL> update EMP
2  set SAL=SAL+500
3  where JOB='CLERK';
```

4 rows updated.

```
SQL> SELECT * FROM EMP;
```

EMP	ENAME	JOB	MGR	HIREDATE	SAL	COMM	DEPTNO
7839	KING	PRESIDENT		81-11-17	5000		10
7698	BLAKE	MANAGER	7839	81-05-01	2850		30
7782	CLARK	MANAGER	7839	81-06-09	2450		10
7566	JONES	MANAGER	7839	81-04-02	2975		20
7788	SCOTT	ANALYST	7566	87-04-19	3000		20
7902	FORD	ANALYST	7566	81-12-03	3000		20
7369	SMITH	CLERK	7902	80-12-17	1300		20
7499	ALLEN	SALESMAN	7698	81-02-20	1600	300	30
7521	WARD	SALESMAN	7698	81-02-22	1250	500	30
7654	MARTIN	SALESMAN	7698	81-09-28	1250	1400	30
7844	TURNER	SALESMAN	7698	81-09-08	1500	0	30
7876	ADAMS	CLERK	7788	87-05-23	1600		20
7900	JAMES	CLERK	7698	81-12-03	1450		30
7934	MILLER	CLERK	7782	82-01-23	1800		10

14 rows selected.

```
SQL>
```

PRACTICAL 2

2) Update the manager of James as CLARK.

Run SQL Command Line

```
SQL> update EMP
2 set MGR=7839
3 where ENAME='JAMES';
```

1 row updated.

```
SQL> select * from EMP;
```

EMP	ENAME	JOB	MGR	HIREDATE	SAL	COMM	DEPTNO
7839	KING	PRESIDENT		81-11-17	5000		10
7698	BLAKE	MANAGER	7839	81-05-01	2850		30
7782	CLARK	MANAGER	7839	81-06-09	2450		10
7566	JONES	MANAGER	7839	81-04-02	2975		20
7788	SCOTT	ANALYST	7566	87-04-19	3000		20
7902	FORD	ANALYST	7566	81-12-03	3000		20
7369	SMITH	CLERK	7902	80-12-17	1300		20
7499	ALLEN	SALESMAN	7698	81-02-20	1600	300	30
7521	WARD	SALESMAN	7698	81-02-22	1250	500	30
7654	MARTIN	SALESMAN	7698	81-09-28	1250	1400	30
7844	TURNER	SALESMAN	7698	81-09-08	1500	0	30
7876	ADAMS	CLERK	7788	87-05-23	1600		20
7900	JAMES	CLERK	7839	81-12-03	1450		30
7934	MILLER	CLERK	7782	82-01-23	1800		10

14 rows selected.

SQL>

3) Change the role of Miller as Manager.

Run SQL Command Line

```
SQL> update EMP
2 set JOB='MANAGER'
3 where ENAME='MILLER';
```

1 row updated.

```
SQL> select * from EMP;
```

EMP	ENAME	JOB	MGR	HIREDATE	SAL	COMM	DEPTNO
7839	KING	PRESIDENT		81-11-17	5000		10
7698	BLAKE	MANAGER	7839	81-05-01	2850		30
7782	CLARK	MANAGER	7839	81-06-09	2450		10
7566	JONES	MANAGER	7839	81-04-02	2975		20
7788	SCOTT	ANALYST	7566	87-04-19	3000		20
7902	FORD	ANALYST	7566	81-12-03	3000		20
7369	SMITH	CLERK	7902	80-12-17	1300		20
7499	ALLEN	SALESMAN	7698	81-02-20	1600	300	30
7521	WARD	SALESMAN	7698	81-02-22	1250	500	30
7654	MARTIN	SALESMAN	7698	81-09-28	1250	1400	30
7844	TURNER	SALESMAN	7698	81-09-08	1500	0	30
7876	ADAMS	CLERK	7788	87-05-23	1600		20
7900	JAMES	CLERK	7839	81-12-03	1450		30
7934	MILLER	MANAGER	7782	82-01-23	1800		10

14 rows selected.

SQL>

PRACTICAL 2

4) Delete the records of Manager.

 Run SQL Command Line

```
SQL> delete from EMP  
2 where JOB='MANAGER';
```

4 rows deleted.

```
SQL> select * from EMP;
```

EMP	ENAME	JOB	MGR	HIREDATE	SAL	COMM	DEPTNO
7839	KING	PRESIDENT		81-11-17	5000		10
7788	SCOTT	ANALYST	7566	87-04-19	3000		20
7902	FORD	ANALYST	7566	81-12-03	3000		20
7369	SMITH	CLERK	7902	80-12-17	1300		20
7499	ALLEN	SALESMAN	7698	81-02-20	1600	300	30
7521	WARD	SALESMAN	7698	81-02-22	1250	500	30
7654	MARTIN	SALESMAN	7698	81-09-28	1250	1400	30
7844	TURNER	SALESMAN	7698	81-09-08	1500	0	30
7876	ADAMS	CLERK	7788	87-05-23	1600		20
7900	JAMES	CLERK	7839	81-12-03	1450		30

10 rows selected.

```
SQL>
```

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

 Run SQL Command Line

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

10 rows deleted.

```
SQL> select * from EMP;
```

no rows selected

```
SQL>
```