Practical 2: Study of Data Manipulation Language Statement

A) Insert the following records in above created table

EMP TABLE

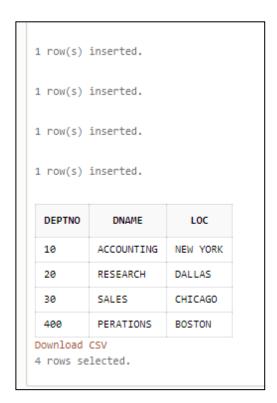| EMPNO	ENAME	JOB	MGR	HIREDATE	SAL	COMM	DEPTNO
7839	KING	PRESIDENT		17-Nov-81	5000		10
7698	BLAKE	MANAGER	7839	01-May-81	2850		30
7782	CLARK	MANAGER	7839	09-Jun-81	2450		10
7566	JONES	MANAGER	7839	02-Apr-81	2975		20
7788	SCOTT	ANALYST	7566	19-Apr-87	3000		20
7902	FORD	ANALYST	7566	03-Dec-81	3000		20
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

```
11  insert into EMP_DHAVAL VALUES(7839,'KING','PRESIDENT','','17-Nov-81',5000,'',10);
12  insert into EMP_DHAVAL VALUES(7698,'BLAKE','MANAGER',7839,'01-May-81',2850,'',30);
13  insert into EMP_DHAVAL VALUES(7782,'CLARK','MANAGER',7839,'09-Jun-81',2450,'',10);
14  insert into EMP_DHAVAL VALUES(7566,'JONES','MANAGER',7839,'02-Apr-81',2975,'',20);
15  insert into EMP_DHAVAL VALUES(7788,'SCOTT','ANALYST',7566,'19-Apr-87',3000,'',20);
16  insert into EMP_DHAVAL VALUES(7902,'FORD','ANALYST',7566,'03-Dec-81',3000,'',20);
17  insert into EMP_DHAVAL VALUES(7369,'SMITH','CLERK',7902,'17-Dec-80',800,'',20);
18  insert into EMP_DHAVAL VALUES(7499,'ALLEN','SALESMAN',7698,'20-Feb-81',1600,300,30);
19  insert into EMP_DHAVAL VALUES(7521,'WARD','SALESMAN',7698,'22-Feb-81',1250,500,30);
20  insert into EMP_DHAVAL VALUES(7654,'MARTIN','SALESMAN',7698,'28-Sep-81',1250,1400,30);
21  insert into EMP_DHAVAL VALUES(7844,'TURNER','SALESMAN',7698,'08-Sep-81',1500,0,30);
22  insert into EMP_DHAVAL VALUES(7876,'ADAMS','CLERK',7788,'23-May-87',1100,'',20);
23  insert into EMP_DHAVAL VALUES(7900,'JAMES','CLERK',7698,'03-Dec-81',950,'',30);
24  insert into EMP_DHAVAL VALUES(7934,'MILLER','CLERK',7782,'23-Jan-82',1300,'',10);
25  COMMIT;
26  SELECT * FROM EMP_DHAVAL;
```

Statement processed.

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

Download CSV
14 rows selected.

DEPT TABLE

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

```
 5   desc emp_DHAVAL
 6   insert into DEPT_DHAVAL VALUES(10,'ACCOUNTING','NEW YORK');
 7   insert into DEPT_DHAVAL VALUES(20,'RESEARCH','DALLAS');
 8   insert into DEPT_DHAVAL VALUES(30,'SALES','CHICAGO');
 9   insert into DEPT_DHAVAL VALUES(400,'PERATIONS','BOSTON');
10   SELECT * FROM DEPT_DHAVAL;
```

```
1 row(s) inserted.

1 row(s) inserted.

1 row(s) inserted.

1 row(s) inserted.
```

DEPTNO	DNAME	LOC
10	ACCOUNTING	NEW YORK
20	RESEARCH	DALLAS
30	SALES	CHICAGO
400	PERATIONS	BOSTON

Download CSV
4 rows selected.

B) Update and Delete Queries

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

```
26   SELECT * FROM EMP_DHAVAL;
27   UPDATE EMP_DHAVAL
28   SET SAL=SAL+500
29   WHERE JOB='CLERK';
30   SELECT * FROM EMP_DHAVAL;
```

4 row(s) updated.

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	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	7839	03-DEC-81	1450	-	30
7934	MILLER	CLERK	7782	23-JAN-82	1800	-	10

Download CSV
14 rows selected.

2) Update the manager of James as CLARK.

```
30   SELECT * FROM EMP_DHAVAL;
31   UPDATE EMP_DHAVAL
32   SET MGR=7839
33   WHERE ENAME='JAMES';
34   SELECT * FROM EMP_DHAVAL;
```

1 row(s) updated.

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	2800	-	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	3100	-	20
7900	JAMES	CLERK	7839	03-DEC-81	2950	-	30
7934	MILLER	MANAGER	7782	23-JAN-82	2800	-	10

Download CSV
14 rows selected.

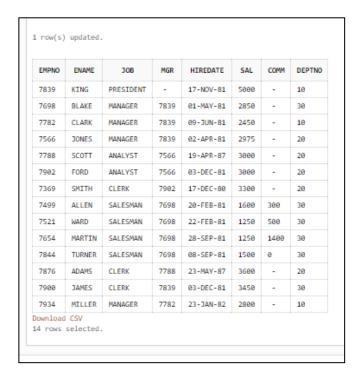3) Change the role of Miller as MANAGER.

```
32  SET MGR=7839
33  WHERE ENAME='JAMES';
34  SELECT * FROM EMP_DHAVAL;
35  UPDATE EMP_DHAVAL
36  SET JOB='MANAGER'
37  WHERE ENAME='MILLER';
38  SELECT * FROM EMP_DHAVAL;
```
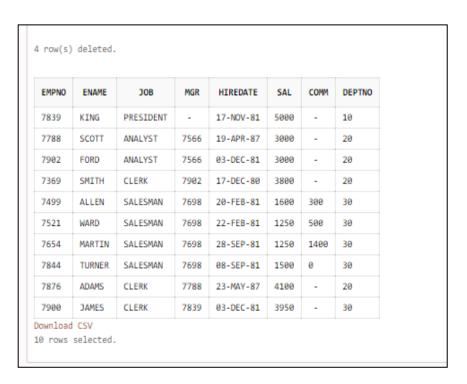
1 row(s) updated.

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	3300	-	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	3600	-	20
7900	JAMES	CLERK	7839	03-DEC-81	3450	-	30
7934	MILLER	MANAGER	7782	23-JAN-82	2800	-	10

Download CSV
14 rows selected.

4) Delete the records of Manager

```
36  SET JOB='MANAGER'
37  WHERE ENAME='MILLER';
38  SELECT * FROM EMP_DHAVAL;
39  DELETE FROM EMP_DHAVAL
40  WHERE JOB='MANAGER';
41  SELECT * FROM EMP_DHAVAL;
```

5

4 row(s) deleted.

EMPNO	ENAME	JOB	MGR	HIREDATE	SAL	COMM	DEPTNO
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	3800	-	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	4100	-	20
7900	JAMES	CLERK	7839	03-DEC-81	3950	-	30

Download CSV
10 rows selected.

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

```
40   WHERE JOB='MANAGER';
41   SELECT * FROM EMP_DHAVAL;
42   DELETE FROM EMP_DHAVAL
43   WHERE SAL>1000;
44   SELECT * FROM EMP_DHAVAL
```

10 row(s) deleted.

no data found

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