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Rollno: 50 class : FYCS

# 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	Page 1 / 8 — •	THICAGO
40	OPERATIONS	BOSTON

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

```
SQL> insert into surabhii EMP values(7499,'ALLEN','SALESMAN',7698,'20-FEB-81',1600,300,30);
 row created.
SQL> insert into surabhii EMP values(7521,'WARD','SALESMAN',7698,'22-FEB-81',1250,500,30);
1 row created.
SQL> insert into surabhii EMP values(7654,'MARTIN','SALESMAN',7698,'28-SEP-81',1250,1400,30);
 row created.
SQL> insert into surabhii EMP values(7844,'TURNER','SALESMAN',7698,'08-SEP-81',1500,0,30);
 row created.
SQL> insert into surabhii EMP values(7876,'ADAMS','CLERK',7788,'23-MAY-87',1100,NULL,20);
1 row created.
SQL> insert into surabhii_EMP values(7900,'JAMES','CLERK',7698,'03-DEC-81',950,NULL,30);
 row created.
SQL> insert into surabhii EMP values(7934,'MILLER','CLERK',7782,'23-JAN-82',1300,NULL,10);
 row created.
SQL> set linesize 10000;
SQL> set pagesize 10000;
SQL> select * from surabhii 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
                                                               2975
      7566 JONES
                       MANAGER
                                         7839 02-APR-81
                                                                                         20
      7788 SCOTT
                       ANALYST
                                         7566 19-APR-87
                                                               3000
                                                                                         20
      7902 FORD
                       ANALYST
                                         7566 03-DEC-81
                                                               3000
                                                                                         20
      7369 SMITH
                                         7902 17-DEC-80
                                                                                         20
                       CLERK
                                                                800
      7499 ALLEN
                       SALESMAN
                                         7698 20-FEB-81
                                                               1600
                                                                            300
                                                                                         30
```

7698 22-FEB-81

7698 28-SEP-81

7698 08-SEP-81

7788 23-MAY-87

7698 03-DEC-81

7782 23-JAN-82

1250

1250

1500

1100

950

1300

500

0

1400

30

30

30

20

30

10

7521 WARD

7654 MARTIN

7844 TURNER

7876 ADAMS

7900 JAMES

4 rows selected.

7934 MILLER

SALESMAN

SALESMAN

SALESMAN

CLERK

**CLERK** 

CLERK

### B) Update and Delete Queries

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

```
OL> update surabhii EMP
    set SAL=SAL+500
    where Job='CLERK';
4 rows updated.
SQL> select * from surabhii_EMP;
   EMP_NO ENAME
                       JOB
                                         MGR HIREDATE
                                                               SAL
                                                                          COMM
                                                                                   DEPT_NO
      7839 KING
                       PRESIDENT
                                             17-NOV-81
                                                              5000
                                                                                        10
                                        7839 01-MAY-81
     7698 BLAKE
                      MANAGER
                                                               2850
                                                                                        30
     7782 CLARK
                                        7839 09-JUN-81
                                                                                        10
                      MANAGER
                                                              2450
                      MANAGER
                                                                                        20
     7566 JONES
                                        7839 02-APR-81
                                                              2975
      7788 SCOTT
                       ANALYST
                                        7566 19-APR-87
                                                               3000
                                                                                        20
                                                                                        20
     7902 FORD
                       ANALYST
                                        7566 03-DEC-81
                                                               3000
      7369 SMITH
                                        7902 17-DEC-80
                                                                                        20
                       CLERK
                                                              1300
     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
                                                                                        30
                                                                             0
     7876 ADAMS
                       CLERK
                                        7788 23-MAY-87
                                                              1600
                                                                                        20
      7900 JAMES
                                        7698 03-DEC-81
                                                              1450
                                                                                        30
                       CLERK
      7934 MILLER
                       CLERK
                                        7782 23-JAN-82
                                                              1800
                                                                                        10
l4 rows selected.
```

### 2) Update the manager of James as CLARK.

```
QL> update surabhii EMP
    set Job='CLARK'
    where Ename='JAMES';
row updated.
QL> select * from surabhii_EMP;
   EMP_NO ENAME
                      JOB
                                                               SAL
                                                                          COMM
                                         MGR HIREDATE
                                                                                   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
                                        7902 17-DEC-80
                                                                                        20
                      CLERK
                                                              1300
     7499 ALLEN
                      SALESMAN
                                        7698 20-FEB-81
                                                                                        30
                                                              1600
                                                                           300
     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
                                        7698 03-DEC-81
                      CLARK
                                                              1450
                                                                                        30
     7934 MILLER
                      CLERK
                                        7782 23-JAN-82
                                                              1800
                                                                                        10
4 rows selected.
```

### 3) Change the role of Miller as MANAGER.

```
SQL> update surabhii_EMP
    set Job='MANAGER'
    where Ename='MILLER';
 row updated.
SQL> select * from surabhii_EMP;
   EMP_NO ENAME
                       JOB
                                                                SAL
                                                                          COMM
                                         MGR HIREDATE
                                                                                   DEPT_NO
     7839 KING
                       PRESIDENT
                                             17-NOV-81
                                                               5000
                                                                                         10
     7698 BLAKE
                       MANAGER
                                        7839 01-MAY-81
                                                                                         30
                                                               2850
                       MANAGER
     7782 CLARK
                                        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
                                        7902 17-DEC-80
                                                                                         20
                       CLERK
                                                               1300
     7499 ALLEN
                       SALESMAN
                                        7698 20-FEB-81
                                                               1600
                                                                            300
                                                                                         30
     7521 WARD
                       SALESMAN
                                        7698 22-FEB-81
                                                               1250
                                                                            500
                                                                                         30
     7654 MARTIN
                                                                           1400
                                                                                         30
                       SALESMAN
                                        7698 28-SEP-81
                                                               1250
     7844 TURNER
                       SALESMAN
                                        7698 08-SEP-81
                                                               1500
                                                                              0
                                                                                         30
     7876 ADAMS
                      CLERK
                                        7788 23-MAY-87
                                                                                         20
                                                               1600
     7900 JAMES
                       CLARK
                                        7698 03-DEC-81
                                                               1450
                                                                                         30
      7934 MILLER
                                        7782 23-JAN-82
                                                                                         10
                       MANAGER
                                                               1800
14 rows selected.
```

## 4) Delete the records of Manager

```
QL> delete from surabhii EMP
 2 where Job='MANAGER';
4 rows deleted.
SQL> select * from surabhii EMP;
   EMP_NO ENAME
                       JOB
                                         MGR HIREDATE
                                                               SAL
                                                                          COMM
                                                                                  DEPT_NO
                                                              5000
                                                                                       10
      7839 KING
                      PRESIDENT
                                             17-NOV-81
      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
10 rows selected.
```

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

```
10 rows selected.
SQL> delete from surabhii_EMP
   2 where SAL>1000;
10 rows deleted.
SQL> select * from surabhii_EMP;
no rows selected
```