

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 jovial_DEPT values(10,'ACCOUNTING','NEW YORK');
1 row created.

SQL> insert into jovial_DEPT values(20,'RESEARCH','DALLAS');
1 row created.

SQL> insert into jovial_DEPT values(30,'SALES','CHICAGO');
1 row created.

SQL> insert into jovial_DEPT values(40,'OPERATIONS','BOSTON');
1 row created.

SQL> select * from jovial_DEPT;

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

SQL> commit
2 ;

Commit complete.

```

```

SQL> insert into jovial_EMP values(7839,'KING','PRESIDENT',NULL,'17-NOV-81',5000,NULL,10);
1 row created.

SQL> insert into jovial_EMP values(7698,'BLAKE','MANAGER',7839,'1-MAY-81',2850,NULL,30);
1 row created.

SQL> insert into jovial_EMP values(7782,'CLARK','MANAGER',7839,'09-JUN-81',2450,NULL,10);
1 row created.

SQL> insert into jovial_EMP values(7566,'JONES','MANAGER',7839,'02-APR-81',2975,NULL,20);
1 row created.

SQL> insert into jovial_EMP values(7788,'SCOTT','ANALYST',7566,'19-APR-87',3000,NULL,20);
1 row created.

SQL> insert into jovial_EMP values(7902,'FORD','ANALYST',7566,'03-DEC-81',3000,NULL,20);
1 row created.

SQL> insert into jovial_EMP values(7369,'SMITH','CLERK',7902,'17-DEC-80',800,NULL,20);
1 row created.

SQL> insert into jovial_EMP values(7499,'ALLEN','SALESMAN',7698,'20-FEB-81',1600,300,30);

```

Select Run SQL Command Line

```
SQL> select * from jovial_EMP;
```

| EMP_NO | ENAME | JOB | MGR | HIREDATE | SAL | COMM |
|--------|-------|-----------|------|-----------|------|------|
| 7839 | KING | PRESIDENT | | 17-NOV-81 | 5000 | |
| 7698 | BLAKE | MANAGER | 7839 | 01-MAY-81 | 2850 | |
| 7782 | CLARK | MANAGER | 7839 | 09-JUN-81 | 2450 | |
| 7566 | JONES | MANAGER | 7839 | 02-APR-81 | 2975 | |
| 7788 | SCOTT | ANALYST | 7566 | 19-APR-87 | 3000 | |
| 7902 | FORD | ANALYST | 7566 | 03-DEC-81 | 3000 | |

B) Update and Delete Queries

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

Select Run SQL Command Line

```
SQL> COMMIT;

Commit complete.

SQL> update jovial_EMP
  2  set SAL=SAL+500
  3  where Job='CLERK';

4 rows updated.
```

2) Update the mgr of James as 7782

Select Run SQL Command Line

```
SQL> update jovial_EMP
  2  set MGR=7782
  3  where Ename='JAMES';

1 row updated.
```

3) Change the role of Miller as MANAGER.

```
SQL> update jovial_EMP
  2  set Job='MANAGER'
  3  where Ename='MILLER';
```

1 row updated.

```
SQL> select * from jovial_EMP;
```

| EMP_NO | ENAME | JOB | MGR | HIREDATE | SAL | COMM |
|---------|--------|---------|------|-----------|------|------|
| DEPT_NO | | | | | | |
| 7900 | JAMES | CLARK | 7698 | 03-DEC-81 | 950 | |
| 30 | | | | | | |
| 7934 | MILLER | MANAGER | 7782 | 23-JAN-82 | 1300 | |
| 10 | | | | | | |

4) Delete the records of Manager

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

4 rows deleted.

Select Run SQL Command Line

```
SQL> select * from jovial_EMP;
```

| EMP_NO | ENAME | JOB | MGR | HIREDATE | SAL | COMM |
|--------|--------|-----------|------|-----------|------|------|
| 7839 | KING | PRESIDENT | | 17-NOV-81 | 5000 | |
| 7788 | SCOTT | ANALYST | 7566 | 19-APR-87 | 3000 | |
| 7902 | FORD | ANALYST | 7566 | 03-DEC-81 | 3000 | |
| 7369 | SMITH | CLERK | 7902 | 17-DEC-80 | 800 | |
| 7499 | ALLEN | SALESMAN | 7698 | 20-FEB-81 | 1600 | 300 |
| 7521 | WARD | SALESMAN | 7698 | 22-FEB-81 | 1250 | 500 |
| 7654 | MARTIN | SALESMAN | 7698 | 28-SEP-81 | 1250 | 1400 |
| 7844 | TURNER | SALESMAN | 7698 | 08-SEP-81 | 1500 | 0 |
| 7876 | ADAMS | CLERK | 7788 | 23-MAY-87 | 1100 | |
| 7900 | JAMES | CLARK | 7698 | 03-DEC-81 | 950 | |

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

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

8 rows deleted.

```
SQL> select * from jovial_EMP
2 ;
```

| EMP_NO | ENAME | JOB | MGR | HIREDATE | SAL | COMM |
|--------|-------|-------|------|-----------|-----|------|
| 7369 | SMITH | CLERK | 7902 | 17-DEC-80 | 800 | |
| 7900 | JAMES | CLARK | 7698 | 03-DEC-81 | 950 | |