Fatima Jinnah Women University
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LAB 11

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Section: A

Semester: Fourth

Course: Data Base (LAB)

EXAMPLES:

Insert Rows:

```
SQL> select * from dept;

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

SQL> insert into dept(deptno,dname,loc)
  2  values (50,'MARKETING','CALIFORNIA');

1 row created.

SQL> select * from dept;

    DEPTNO DNAME          LOC
---------- -------------- -------------
        50 MARKETING      CALIFORNIA
        10 ACCOUNTING     NEW YORK
        20 RESEARCH       DALLAS
        30 SALES          CHICAGO
        40 OPERATIONS     BOSTON
```

Insert Rows with Null Values:

```
SQL> insert into dept(deptno,dname)
  2  values (60,'Purchasing');

1 row created.

SQL> insert into dept
  2  values (22,'finance',NULL);

1 row created.
```

Inserting Special Values:

```
SQL> insert into emp(empno,ename,job,mgr,hiredate,sal,comm,deptno) values(7888,'Louis','CLERK',7566,sysdate,1900,NULL,10
);

1 row created.
```

TASKS

1. Create the table MY_EMPLOYEE which has the following schema.

```
SQL> create table my_employee(
  2  id number(4) not null,
  3  first_name varchar2(25),
  4  last_name varchar2(25),
  5  userID varchar2(8),
  6  salary number (9,2));

Table created.
```

2. Describe the structure of MY_EMPLOYEE table.

```
SQL> desc my_employee;
 Name                                      Null?    Type
 ----------------------------------------- -------- ----------------------------
 ID                                        NOT NULL NUMBER(4)
 FIRST_NAME                                         VARCHAR2(25)
 LAST_NAME                                          VARCHAR2(25)
 USERID                                             VARCHAR2(8)
 SALARY                                             NUMBER(9,2)
```

3. Add the first row of data to the MY_EMPLOYEE table from the following sample data. Do not list the columns in the INSERT clause.

```
SQL> insert into my_employee
  2  values(1,'patel','Ralph','rpatel',895);

1 row created.
```

4. Populate the MY_EMPLOYEE table with the second row of sample data from the preceding list. This time, list the columns explicitly in the INSERT clause.

```
SQL> insert into my_employee(id, first_name, last_name, userID, salary)
  2  values(2,'Betty','Dancs','bdancs',860);

1 row created.
```

5. Confirm your addition to the table.

```
SQL> select * from my_employee;

        ID FIRST_NAME               LAST_NAME                USERID
---------- ------------------------ ------------------------ --------
    SALARY
----------
         1 patel                    Ralph                    rpatel
       895

         2 Betty                    Dancs                    bdancs
       860
```

6. Populate the table with the next two rows of sample data by using the insert statement.

```
SQL> insert into my_employee
  2  values(3,'Ben','Biri','bbiri',1100);

1 row created.

SQL> insert into my_employee
  2  values(4,'Chad','Newman','cnewman',750);

1 row created.
```

7. Make the data additions permanent.

```
SQL> commit;

Commit complete.
```

8. Change the last name of employee 3 to Drexler.

```
SQL> update my_employee
  2  set last_name='Drexler'
  3  where id=3;

1 row updated.
```

9. Change the salary to 1000 for all employees with a salary less than 900.

```
SQL> update my_employee
  2  set salary=1000
  3  where salary<900;

3 rows updated.
```

10. Verify your change to the table.

```
SQL> select * from my_employee;

        ID FIRST_NAME               LAST_NAME                USERID
---------- ------------------------ ------------------------ --------
    SALARY
----------
         1 patel                    Ralph                    rpatel
      1000

         2 Betty                    Dancs                    bdancs
      1000

         3 Ben                      Drexler                  bbiri
      1100


        ID FIRST_NAME               LAST_NAME                USERID
---------- ------------------------ ------------------------ --------
    SALARY
----------
         4 Chad                     Newman                   cnewman
      1000
```

11. Delete Betty Dancs from the MY_EMPLOYEE table.

```
SQL> delete from my_employee
  2  where first_name='Betty' and last_name='Dancs';

1 row deleted.

SQL> select * from my_employee;

        ID FIRST_NAME               LAST_NAME                USERID
---------- ------------------------ ------------------------ --------
    SALARY
----------
         1 patel                    Ralph                    rpatel
      1000

         3 Ben                      Drexler                  bbiri
      1100

         4 Chad                     Newman                   cnewman
      1000
```

12. Empty the entire table.

```
SQL> delete from my_employee;

3 rows deleted.
```

13. Confirm that the table is empty.

```
SQL> select * from my_employee;

no rows selected
```

14. Discard the most recent DELETE operation without discarding the earlier INSERT statement.

```
SQL> rollback;

Rollback complete.
```

15. Confirm that the new row is still intact.

```
SQL> insert into my_employee
  2  values(5,'Audrey','Ropeburn','aropebur',1550);

1 row created.

SQL> savepoint sp1;

Savepoint created.

SQL> select * from my_employee;

        ID FIRST_NAME               LAST_NAME               USERID
---------- ------------------------ ------------------------ --------
    SALARY
----------
         1 patel                    Ralph                   rpatel
       895

         2 Betty                    Dancs                   bdancs
       860

         3 Ben                      Biri                    bbiri
      1100


        ID FIRST_NAME               LAST_NAME               USERID
---------- ------------------------ ------------------------ --------
    SALARY
----------
         4 Chad                     Newman                  cnewman
       750

         5 Audrey                   Ropeburn                aropebur
      1550
```

```
SQL> delete from my_employee;

5 rows deleted.

SQL> select * from my_employee;

no rows selected

SQL> rollback to sp1;

Rollback complete.

SQL> select * from my_employee;

        ID FIRST_NAME               LAST_NAME               USERID
---------- ------------------------ ------------------------ --------
    SALARY
----------
         1 patel                    Ralph                   rpatel
       895

         2 Betty                    Dancs                   bdancs
       860

         3 Ben                      Biri                    bbiri
      1100


        ID FIRST_NAME               LAST_NAME               USERID
---------- ------------------------ ------------------------ --------
    SALARY
----------
         4 Chad                     Newman                  cnewman
       750

         5 Audrey                   Ropeburn                aropebur
      1550
```

16. Make the data changes permanent.

```
SQL> commit;

Commit complete.
```