

**RAJALAKSHMI ENGINEERING
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**RAJALAKSHMI
ENGINEERING COLLEGE**
An AUTONOMOUS Institution
Affiliated to ANNA UNIVERSITY, Chennai

**CS23332 DATABASE MANAGEMENT
SYSTEMS LAB**

Laboratory Record Notebook

CS23332 DATABASE MANAGEMENT SYSTEMS

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|------------|-------------------|
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| | | |
|-----------|---------|------------------------------------------------------|
| Ex.No.: 1 | | CREATION OF BASE TABLE AND DML OPERATIONS |
| Date: | 31/7/24 | |

1. Create MY_EMPLOYEE table with the following structure

| NAME | NULL? | TYPE |
|------------|----------|-------------|
| ID | Not null | Number(4) |
| Last_name | | Varchar(25) |
| First_name | | Varchar(25) |
| Userid | | Varchar(25) |
| Salary | | Number(9,2) |

CREATE TABLE MY_EMPLOYEE (ID NUMBER(4) NOT NULL, Last_name VARCHAR2(25), First_name VARCHAR2(25), Userid VARCHAR2(25), Salary NUMBER(9, 2));

| Table | Column | Data Type | Length | Precision | Scale | Primary Key | Nullable | Default | Comment |
|-------------|------------|-----------|--------|-----------|-------|-------------|----------|---------|---------|
| MY_EMPLOYEE | ID | NUMBER | - | 4 | 0 | - | - | - | - |
| | LAST_NAME | VARCHAR2 | 25 | - | - | - | ✓ | - | - |
| | FIRST_NAME | VARCHAR2 | 25 | - | - | - | ✓ | - | - |
| | USERID | VARCHAR2 | 25 | - | - | - | ✓ | - | - |
| | SALARY | NUMBER | - | 9 | 2 | - | ✓ | - | - |

2. Add the first and second rows data to MY_EMPLOYEE table from the following sample data.

| ID | Last_name | First_name | Userid | salary |
|----|-----------|------------|---------|--------|
| 1 | Patel | Ralph | rpatel | 895 |
| 2 | Dancs | Betty | bdancs | 860 |
| 3 | Biri | Ben | bbiri | 1100 |
| 4 | Newman | Chad | Cnewman | 750 |

| | | | | |
|---|---------|--------|----------|------|
| 5 | Ropebur | Audrey | aropebur | 1550 |
|---|---------|--------|----------|------|

Begin

```
INSERT INTO MY_EMPLOYEE VALUES (1, 'Patel', 'Ralph', 'rpatel', 895);
INSERT INTO MY_EMPLOYEE VALUES (2, 'Dancs', 'Betty', 'bdancs', 860);
End;
```

| ID | LAST_NAME | FIRST_NAME | USERID | SALARY |
|----|-----------|------------|--------|--------|
| 1 | Patel | Ralph | rpatel | 895 |
| 2 | Dancs | Betty | bdancs | 860 |

3. Display the table with values.

Select * from My_Employee;

| ID | LAST_NAME | FIRST_NAME | USERID | SALARY |
|----|-----------|------------|--------|--------|
| 1 | Patel | Ralph | rpatel | 895 |
| 2 | Dancs | Betty | bdancs | 860 |

4. Populate the next two rows of data from the sample data. Concatenate the first letter of the first_name with the first seven characters of the last_name to produce Userid.

Begin

```
INSERT INTO MY_EMPLOYEE (ID, Last_name, First_name, Userid, Salary)
VALUES (3, 'Biri', 'Ben', SUBSTR('Biri', 1, 1) || SUBSTR('Biri', 1, 7), 1100);
INSERT INTO MY_EMPLOYEE (ID, Last_name, First_name, Userid, Salary)
VALUES (4, 'Newman', 'Chad', SUBSTR('Newman', 1, 1) || SUBSTR('Newman', 1, 7), 750);
End;
```

| ID | LAST_NAME | FIRST_NAME | USERID | SALARY |
|----|-----------|------------|---------|--------|
| 1 | Patel | Ralph | rpatel | 895 |
| 2 | Dancs | Betty | bdancs | 860 |
| 3 | Biri | Ben | BBiri | 1100 |
| 4 | Newman | Chad | NNewman | 750 |

5. Delete Betty dancs from MY_EMPLOYEE table.

DELETE FROM MY_EMPLOYEE WHERE Last_name = 'Dancs';

| ID | LAST_NAME | FIRST_NAME | USERID | SALARY |
|----|-----------|------------|---------|--------|
| 1 | Patel | Ralph | rpatel | 895 |
| 3 | Biri | Ben | BBiri | 1100 |
| 4 | Newman | Chad | NNewman | 750 |

6. Empty the fourth row of the emp table.

DELETE FROM MY_EMPLOYEE WHERE ID = 4;

7. Make the data additions permanent.

COMMIT;

| ID | LAST_NAME | FIRST_NAME | USERID | SALARY |
|----|-----------|------------|--------|--------|
| 1 | Patel | Ralph | rpatel | 895 |
| 3 | Biri | Ben | BBiri | 1100 |

Statement processed.

0.01 seconds

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

```
UPDATE MY_EMPLOYEE SET Last_name = 'Drexler' WHERE ID = 3;
```

| ID | LAST_NAME | FIRST_NAME | USERID | SALARY |
|----|-----------|------------|--------|--------|
| 1 | Patel | Ralph | rpatel | 895 |
| 3 | Drexler | Ben | BBiri | 1100 |

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

```
UPDATE MY_EMPLOYEE SET Salary = 1000 WHERE Salary < 900;
```

| ID | LAST_NAME | FIRST_NAME | USERID | SALARY |
|----|-----------|------------|--------|--------|
| 1 | Patel | Ralph | rpatel | 1000 |
| 3 | Drexler | Ben | BBiri | 1100 |