

CS23332

DATABASE MANAGEMENT SYSTEMS LAB

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EXERCISE : 2 – Creation of Base Table and DML operation

1. Create MY_EMPLOYEE table with following structure

The screenshot shows a SQL command interface with the following details:

- SQL Commands** header.
- Language dropdown set to **SQL**.
- Rows dropdown set to **10**.
- Toolbar icons: Refresh, Undo, Redo, Search, Insert, Sort.
- SQL code:

```
1 CREATE TABLE MY_EMPLOYEE(
2     ID NUMBER(4) NOT NULL,
3     LAST_NAME VARCHAR2(25),
4     FIRST_NAME VARCHAR2(25),
5     USERID VARCHAR2(25),
6     SALARY NUMBER(9,2)
7 );
```
- Tab bar: **Results** (selected), Explain, Describe, Saved SQL, History.
- Output area:

Table created.
0.03 seconds

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

The screenshot shows a SQL command window with the following details:

- SQL Commands** tab is selected.
- Schema**: WKSP_MAHAWORKSPACE
- Language**: SQL
- Rows**: 10
- Buttons**: Clear Command, Find Tables, Save
- Toolbar icons**: Undo, Redo, Search, Insert, All
- SQL Editor Content**:

```
1 INSERT ALL
2   INTO MY_EMPLOYEE(ID, LAST_NAME, FIRST_NAME, USERID, SALARY) VALUES (1, 'Patel', 'Ralph', ' ', 895)
3   INTO MY_EMPLOYEE(ID, LAST_NAME, FIRST_NAME, USERID, SALARY) VALUES (2, 'Dancs', 'Betty', ' ', 895)
4   INTO MY_EMPLOYEE(ID, LAST_NAME, FIRST_NAME, USERID, SALARY) VALUES (3, 'Biri', 'Ben', ' ', 895)
5   INTO MY_EMPLOYEE(ID, LAST_NAME, FIRST_NAME, USERID, SALARY) VALUES (4, 'Newman', 'Chad', ' ', 895)
6   INTO MY_EMPLOYEE(ID, LAST_NAME, FIRST_NAME, USERID, SALARY) VALUES (5, 'Ropebur', 'Audrey', ' ', 895)
7   SELECT * FROM DUAL;
```
- Results Tab** is selected.
- Output**:
 - 5 row(s) inserted.
 - 0.02 seconds

3. Display the table with values

The screenshot shows a SQL query results interface. At the top, there is a toolbar with icons for refresh, copy, search, and other database operations. Below the toolbar, a SQL statement is entered:

```
1  SELECT * FROM MY_EMPLOYEE
```

Below the SQL statement, there is a navigation bar with tabs: Results (which is selected), Explain, Describe, Saved SQL, and History. The main area displays a table with the following data:

ID	LAST_NAME	FIRST_NAME	USERID	SALARY
1	Patel	Ralph		895
2	Dancs	Betty		895
3	Biri	Ben		895
4	Newman	Chad		895
5	Ropebur	Audrey		895

At the bottom of the results pane, it says "5 rows returned in 0.02 seconds" and has a "Download" link.

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:

The screenshot shows a database interface with a dark theme. At the top, there are several icons: a refresh circle, a copy icon, a search icon, a save icon, and a help icon. Below the toolbar, a SQL query is displayed in a code editor:

```
1 UPDATE MY_EMPLOYEE SET USERID = SUBSTR(FIRST_NAME,1,1) || SUBSTR(LAST_NAME,1,7);
```

Below the code editor, there is a navigation bar with tabs: Results (which is selected), Explain, Describe, Saved SQL, and History. Under the Results tab, the output of the query is shown:

5 row(s) updated.

0.01 seconds

5.DELETE Betty Dancs from MY_EMPLOYEE Table

The screenshot shows a MySQL command-line interface window. At the top, there are icons for undo (ctrl-Z), redo (ctrl-Y), search (ctrl-F), and help (ctrl-H). Below the toolbar, the SQL command is displayed:

```
1  DELETE FROM MY_EMPLOYEE
2 WHERE FIRST_NAME = 'Betty' AND LAST_NAME = 'Dancs';|
```

Below the command, the results tab is selected, indicated by a thicker border. The results section displays the output of the query:

1 row(s) deleted.

0.01 seconds

6. Empty the fourth row of the EMP table

The screenshot shows a MySQL command-line interface. At the top, there are several icons: a circular arrow, a refresh symbol, a magnifying glass, a file folder, and a gear. Below the icons is a text input area containing the following SQL code:

```
1 UPDATE MY_EMPLOYEE SET LAST_NAME = NULL,
2 FIRST_NAME = NULL,
3 USERID = NULL,
4 SALARY = NULL WHERE ID = 4;
```

Below the code, there is a navigation bar with five tabs: **Results**, **Explain**, **Describe**, **Saved SQL**, and **History**. The **Results** tab is currently selected. Under the results, the output of the query is displayed:

```
1 row(s) updated.
```

At the bottom of the interface, it shows the execution time:

```
0.00 seconds
```