

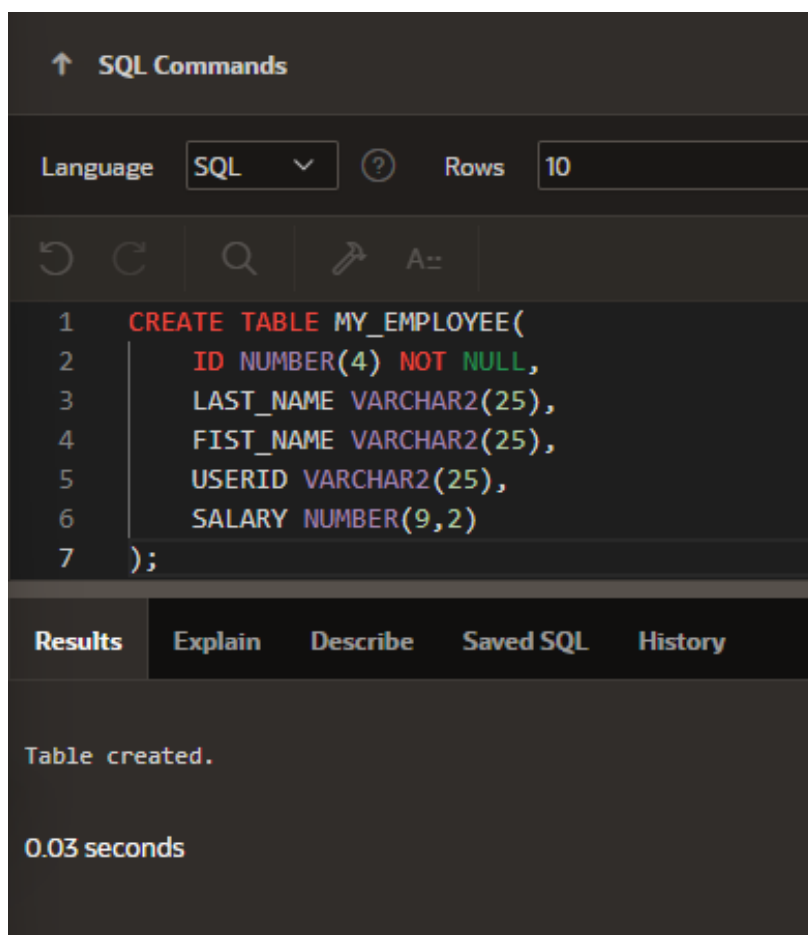
CS23332

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

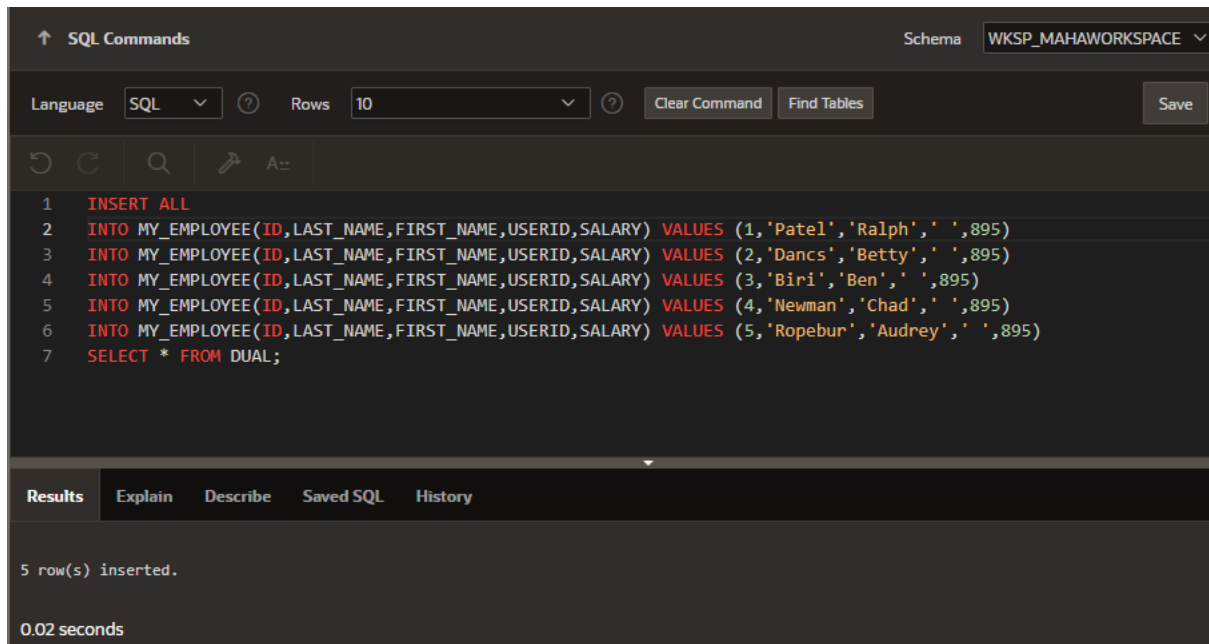


The screenshot shows a SQL command window with a dark theme. At the top, there is a tab labeled 'SQL Commands'. Below the tab, there is a 'Language' dropdown menu set to 'SQL' and a 'Rows' dropdown menu set to '10'. Below these, there is a toolbar with icons for undo, redo, search, and a keyboard shortcut 'A++'. The main area of the window contains the following SQL command:

```
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 );
```

Below the command, there is a tab labeled 'Results'. The results section shows the message 'Table created.' and the execution time '0.03 seconds'.

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



The screenshot shows an SQL Command window with the following components:

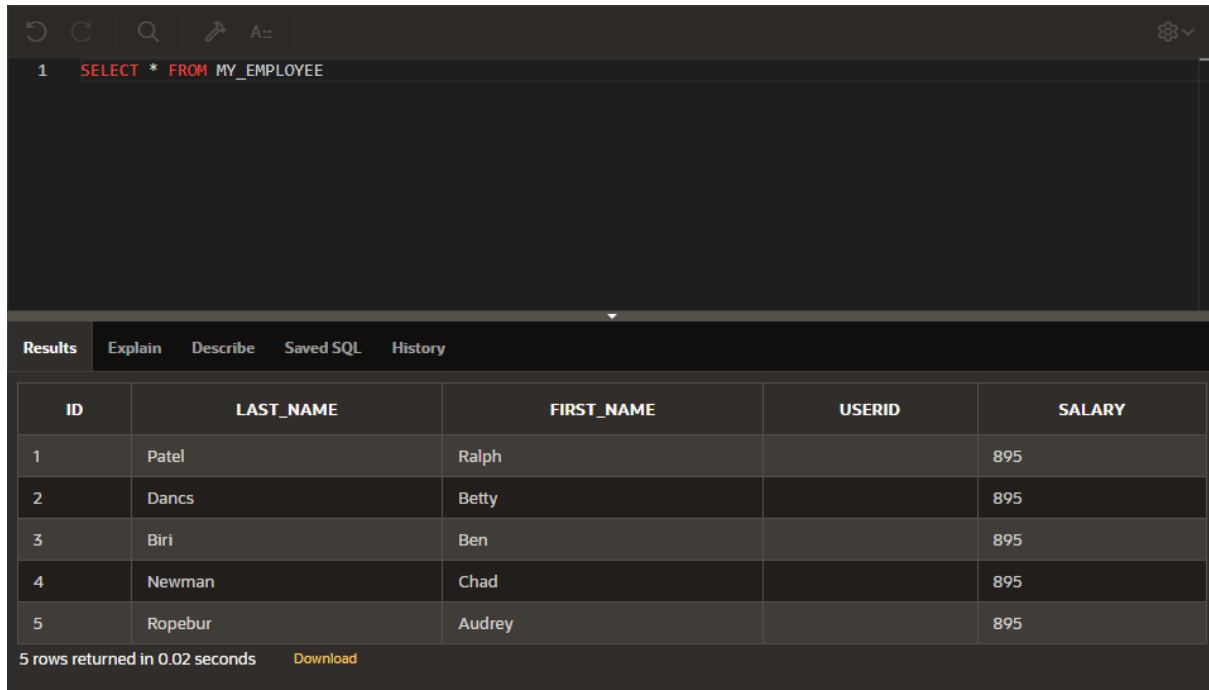
- SQL Commands** tab selected.
- Schema**: WKSP_MAHAWORKSPACE
- Language**: SQL
- Rows**: 10
- Buttons**: Clear Command, Find Tables, Save
- SQL Command**:

```
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 selected, showing:

```
5 row(s) inserted.

0.02 seconds
```

3.Display the table with values

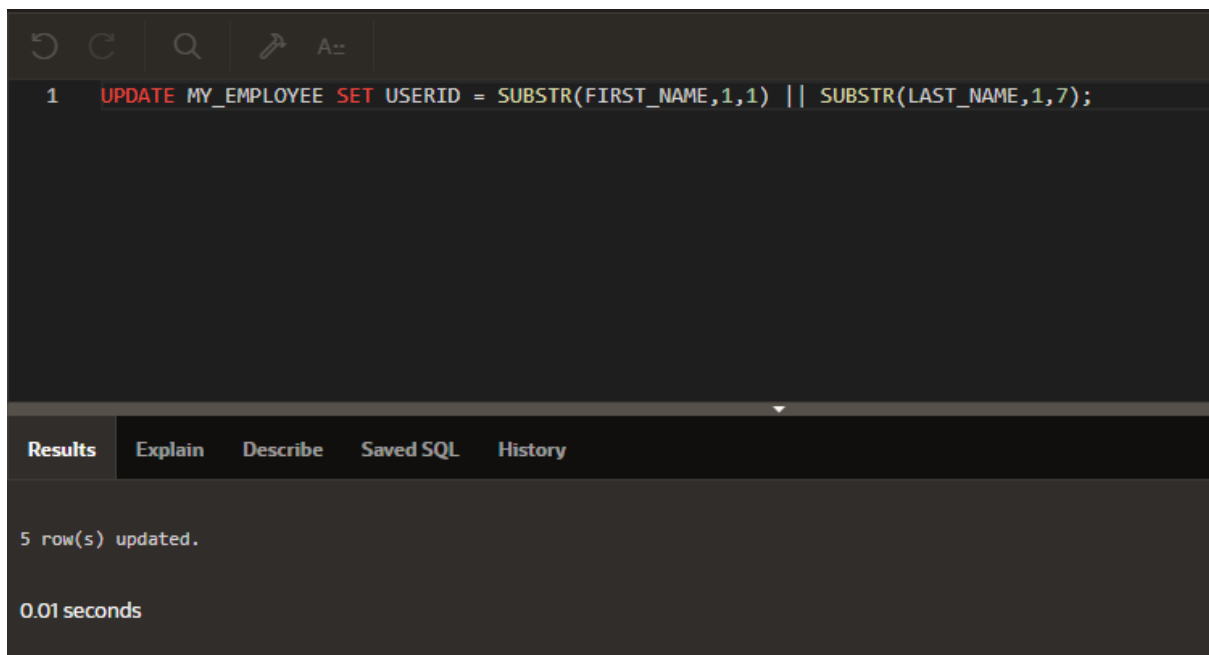


The screenshot shows a SQL query editor with a dark theme. At the top, there is a toolbar with icons for undo, redo, search, and a settings gear. Below the toolbar, the SQL query is entered: `1 SELECT * FROM MY_EMPLOYEE`. The query is highlighted in red. Below the query editor, there is a tabbed interface with four tabs: "Results", "Explain", "Describe", and "History". The "Results" tab is selected, and it displays a table with five columns: "ID", "LAST_NAME", "FIRST_NAME", "USERID", and "SALARY". The table contains five rows of data. Below the table, it says "5 rows returned in 0.02 seconds" and there is a "Download" link.

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

5 rows returned in 0.02 seconds [Download](#)

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 SQL IDE interface with a dark theme. At the top, there is a toolbar with icons for undo, redo, search, and a keyboard shortcut 'A=='. Below the toolbar, a SQL statement is entered in a text area: `1 UPDATE MY_EMPLOYEE SET USERID = SUBSTR(FIRST_NAME,1,1) || SUBSTR(LAST_NAME,1,7);`. Below the text area, there is a horizontal menu with tabs: 'Results', 'Explain', 'Describe', 'Saved SQL', and 'History'. The 'Results' tab is selected, and it displays the message '5 row(s) updated.' followed by '0.01 seconds'.

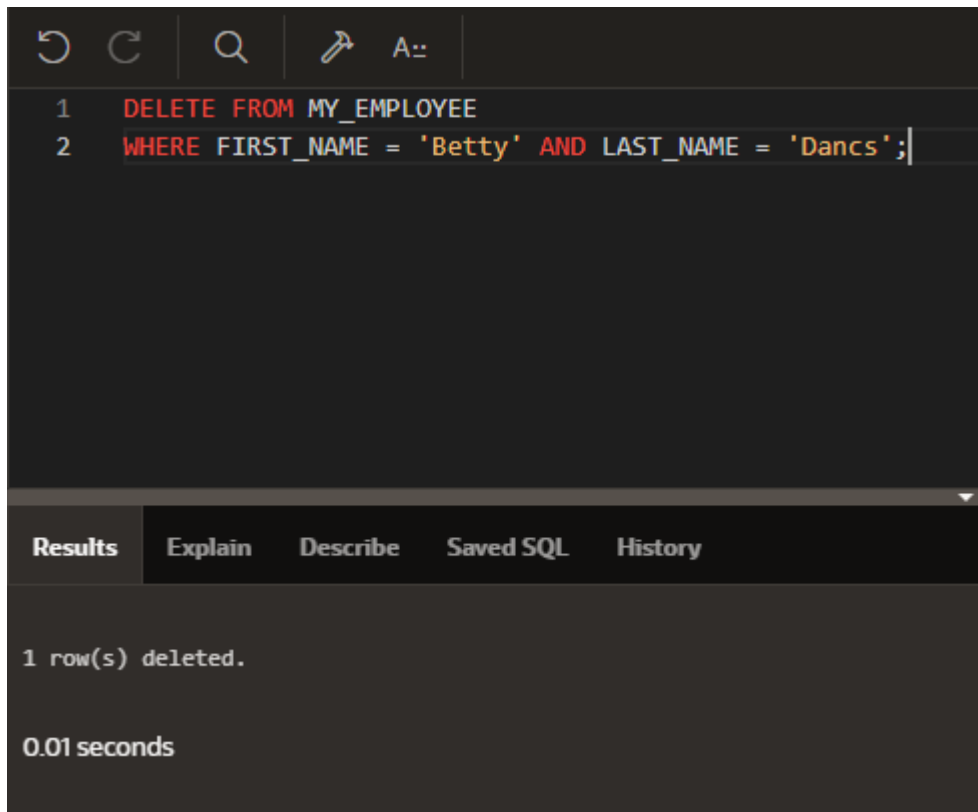
```
1 UPDATE MY_EMPLOYEE SET USERID = SUBSTR(FIRST_NAME,1,1) || SUBSTR(LAST_NAME,1,7);
```

Results Explain Describe Saved SQL History

5 row(s) updated.

0.01 seconds

5.DELETE Betty Dancs from MY_EMPLOYEE Table



The screenshot shows a SQL IDE interface with a dark theme. At the top, there is a toolbar with icons for undo, redo, search, and a dropdown menu currently showing 'A:'. Below the toolbar, the SQL editor contains two lines of code: '1 DELETE FROM MY_EMPLOYEE' and '2 WHERE FIRST_NAME = 'Betty' AND LAST_NAME = 'Dancs';'. The code is syntax-highlighted. Below the editor, there is a tabbed interface with five tabs: 'Results', 'Explain', 'Describe', 'Saved SQL', and 'History'. The 'Results' tab is selected and shows the output '1 row(s) deleted.' and the execution time '0.01 seconds'.

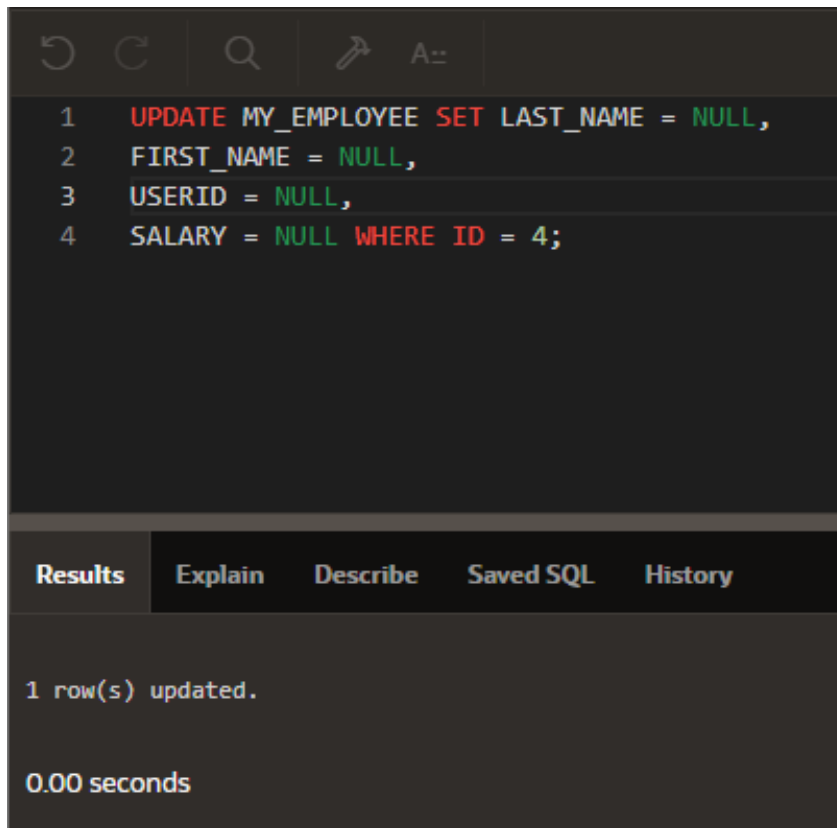
```
1 DELETE FROM MY_EMPLOYEE
2 WHERE FIRST_NAME = 'Betty' AND LAST_NAME = 'Dancs';
```

Results Explain Describe Saved SQL History

1 row(s) deleted.

0.01 seconds

6. Empty the fourth row of the EMP table



The screenshot shows a SQL IDE interface. At the top, there is a toolbar with icons for undo, redo, search, and a keyboard shortcut 'A++'. Below the toolbar, a SQL statement is entered in a text area, numbered 1 through 4. The statement is: `UPDATE MY_EMPLOYEE SET LAST_NAME = NULL, FIRST_NAME = NULL, USERID = NULL, SALARY = NULL WHERE ID = 4;`. Below the text area, there is a tabbed interface with five tabs: 'Results', 'Explain', 'Describe', 'Saved SQL', and 'History'. The 'Results' tab is selected, and it displays the output of the query: '1 row(s) updated.' and '0.00 seconds'.

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

Results Explain Describe Saved SQL History

1 row(s) updated.

0.00 seconds