

EXERCISE-2

MANIPULATING DATA


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



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)

 **APEX** App Builder SQL Workshop Team Development Gallery

↑ SQL Commands

Language SQL Rows 10 Clear Command Find Tables

 A=

```
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 );
```

Results Explain Describe Saved SQL History

Table created.

0.04 seconds

To confirm the table creation:

The screenshot shows the APEX SQL Workshop interface. At the top, there's a navigation bar with 'APEX', 'App Builder', 'SQL Workshop', 'Team Development', and 'Gallery'. Below this, the 'SQL Commands' section is active, showing a command prompt with 'DESC MY_EMPLOYEE;' and a 'Find Tables' button. The 'Results' tab is selected, displaying the table structure for 'MY_EMPLOYEE'. The table has five columns: ID, LAST_NAME, FIRST_NAME, USERID, and SALARY. The data types are NUMBER, VARCHAR2, VARCHAR2, VARCHAR2, and NUMBER respectively. The lengths are -, 25, 25, 25, and -. The precision and scale are 4, 0, -, -, and 9, 2. The primary key is ID. The nullable status is - for ID, and checkmarks for the others. The default and comment columns are empty.

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

APEX

App Builder

SQL Workshop

Team Development

Gallery

↑ SQL Commands

Language SQL Rows 10 Clear Command Find Tables

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1 INSERT INTO MY_EMPLOYEE (ID, Last_name, First_name, Userid, Salary)

2 VALUES (1, 'Patel', 'Ralph', 'rpatel', 895);

Results

Explain

Describe

Saved SQL

History

1 row(s) inserted.

0.03 seconds

APEX

App Builder

SQL Workshop

Team Development

Gallery

↑ SQL Commands

Language SQL Rows 10 Clear Command Find Tables

↶ ↷ 🔍 ↗ A::

1 INSERT INTO MY_EMPLOYEE (ID, Last_name, First_name, Userid, Salary)

2 VALUES (2, 'Dancs', 'Betty', 'bdancs', 860);

Results

Explain

Describe

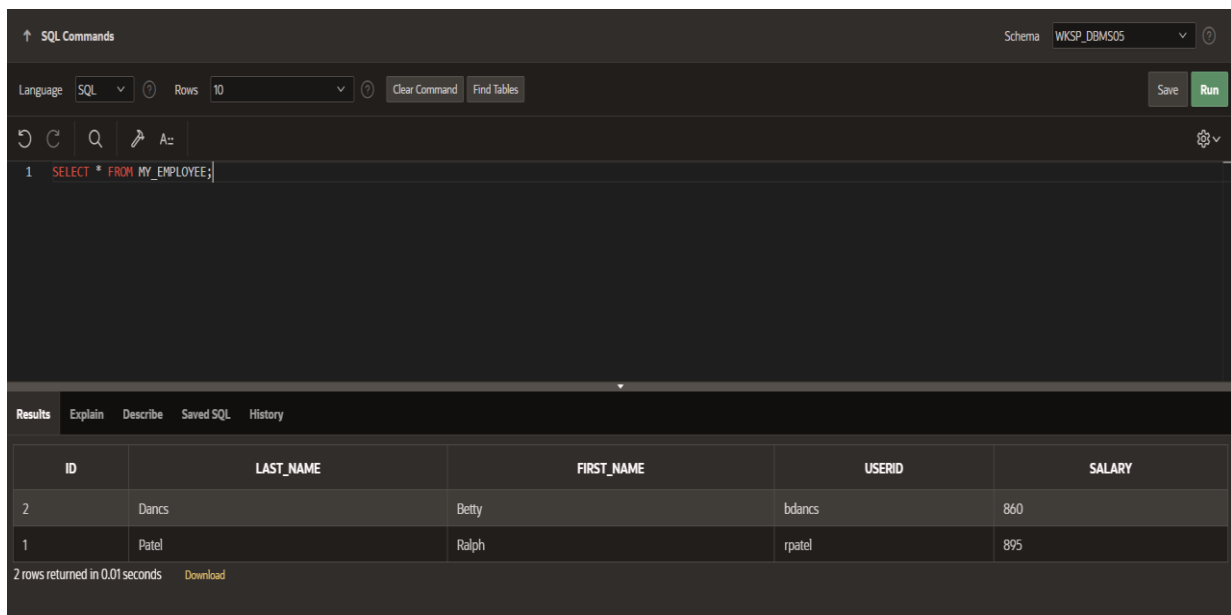
Saved SQL

History

1 row(s) inserted.

0.00 seconds

3. Display the table with values.



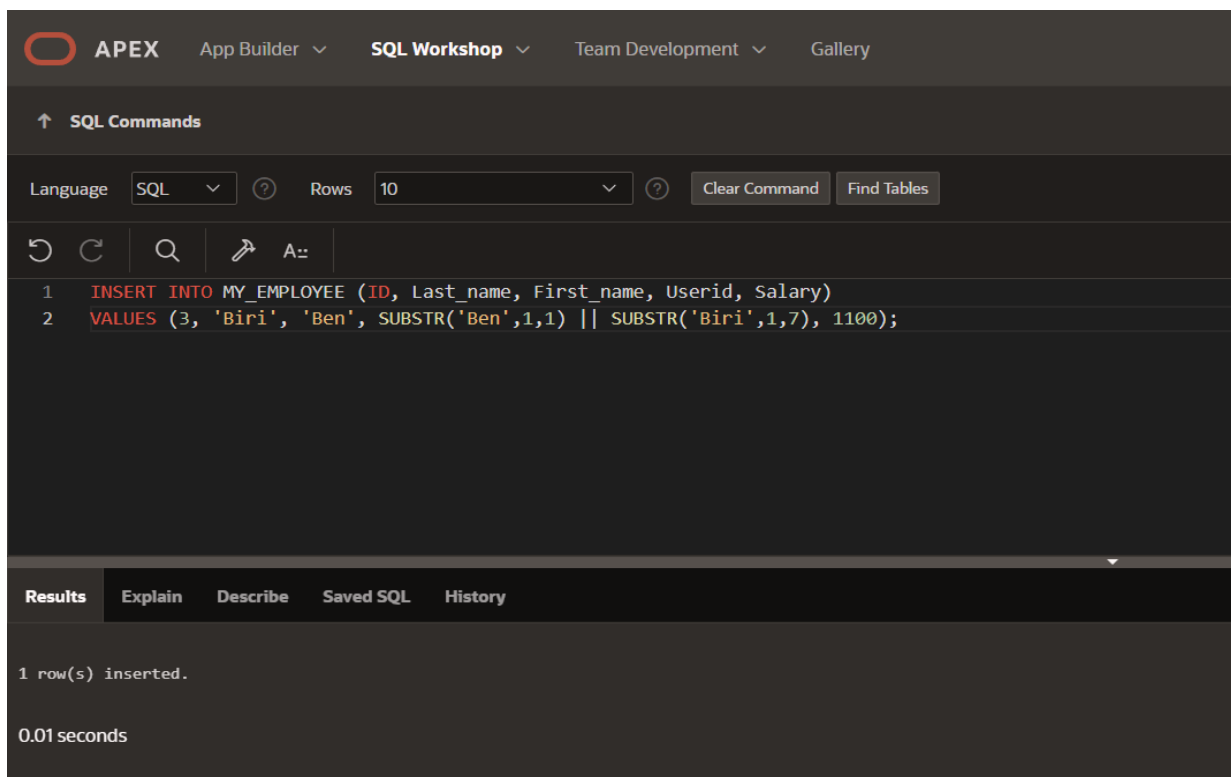
The screenshot shows the SQL Workshop interface with the following details:

- SQL Commands:** The command entered is `SELECT * FROM MY_EMPLOYEE;`
- Results:** A table with 2 rows is displayed. The columns are ID, LAST_NAME, FIRST_NAME, USERID, and SALARY.
- Table Data:**

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

2 rows returned in 0.01 seconds

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 the SQL Workshop interface with the following details:

- SQL Commands:** The command entered is `INSERT INTO MY_EMPLOYEE (ID, Last_name, First_name, Userid, Salary) VALUES (3, 'Biri', 'Ben', SUBSTR('Ben',1,1) || SUBSTR('Biri',1,7), 1100);`
- Results:** The result is `1 row(s) inserted.`
- Execution Time:** 0.01 seconds

APEX App Builder SQL Workshop Team Development Gallery

↑ SQL Commands

Language SQL ? Rows 10 ? Clear Command Find Tables

↶ ↷ 🔍 ↵ A::

```
1 INSERT INTO MY_EMPLOYEE (ID, Last_name, First_name, Userid, Salary)
2 VALUES (4, 'Newman', 'Chad', SUBSTR('Chad',1,1) || SUBSTR('Newman',1,7), 750);
```

Results Explain Describe Saved SQL History

1 row(s) inserted.

0.02 seconds

5. Make the data additions permanent.

APEX App Builder SQL Workshop Team Development Gallery

↑ SQL Commands

Language SQL ? Rows 10 ? Clear Command Find Tables

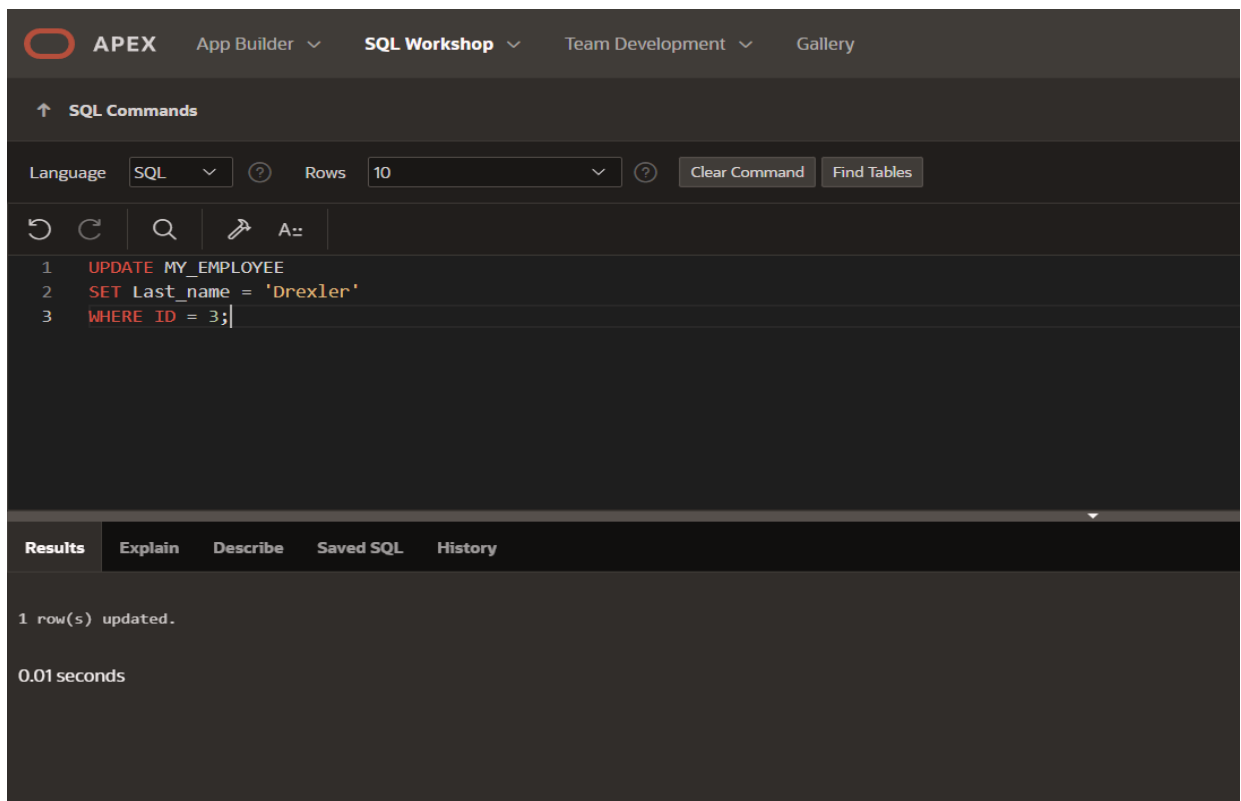
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```
1 COMMIT;
```

Results Explain Describe Saved SQL History

Commit statement not applicable. All statements are automatically committed.

6. Change the last name of employee 3 to Drexler

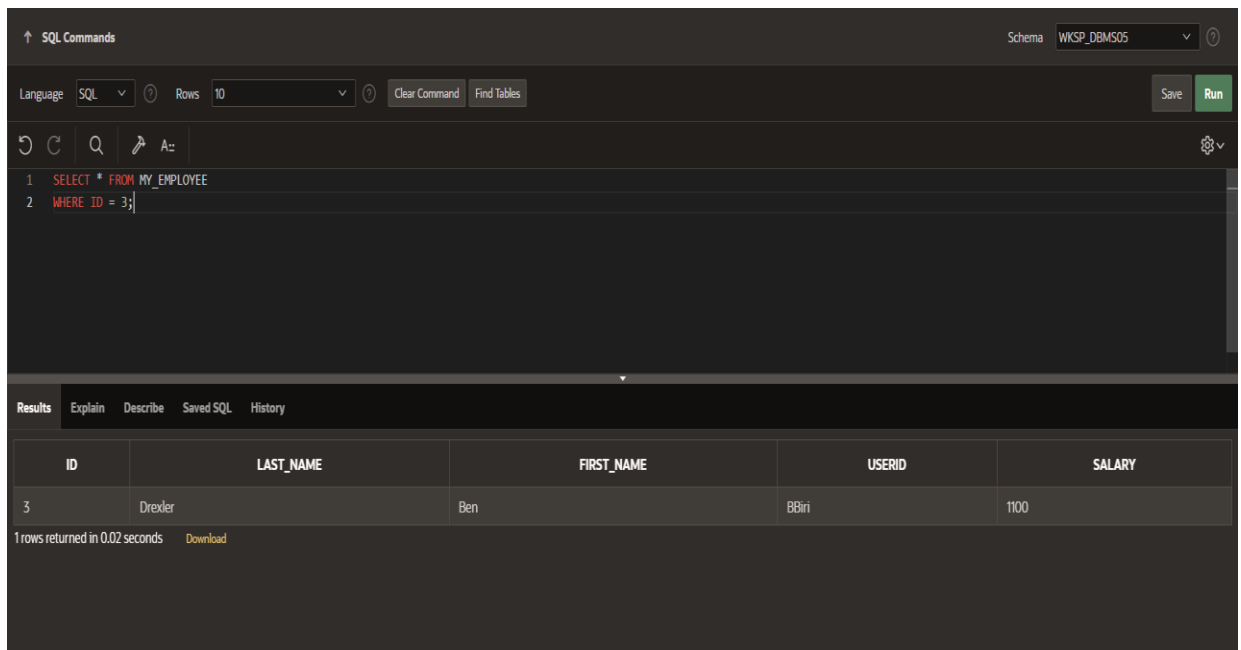


The screenshot shows the APEX SQL Workshop interface. The top navigation bar includes 'APEX', 'App Builder', 'SQL Workshop', 'Team Development', and 'Gallery'. The 'SQL Commands' section is active, showing a command editor with the following SQL statement:

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

Below the editor, the 'Results' tab is selected, displaying the message '1 row(s) updated.' and the execution time '0.01 seconds'.

To confirm the change:



The screenshot shows the APEX SQL Workshop interface with the 'Schema' dropdown set to 'WKSP_DBMS05'. The 'SQL Commands' section is active, showing a command editor with the following SQL statement:

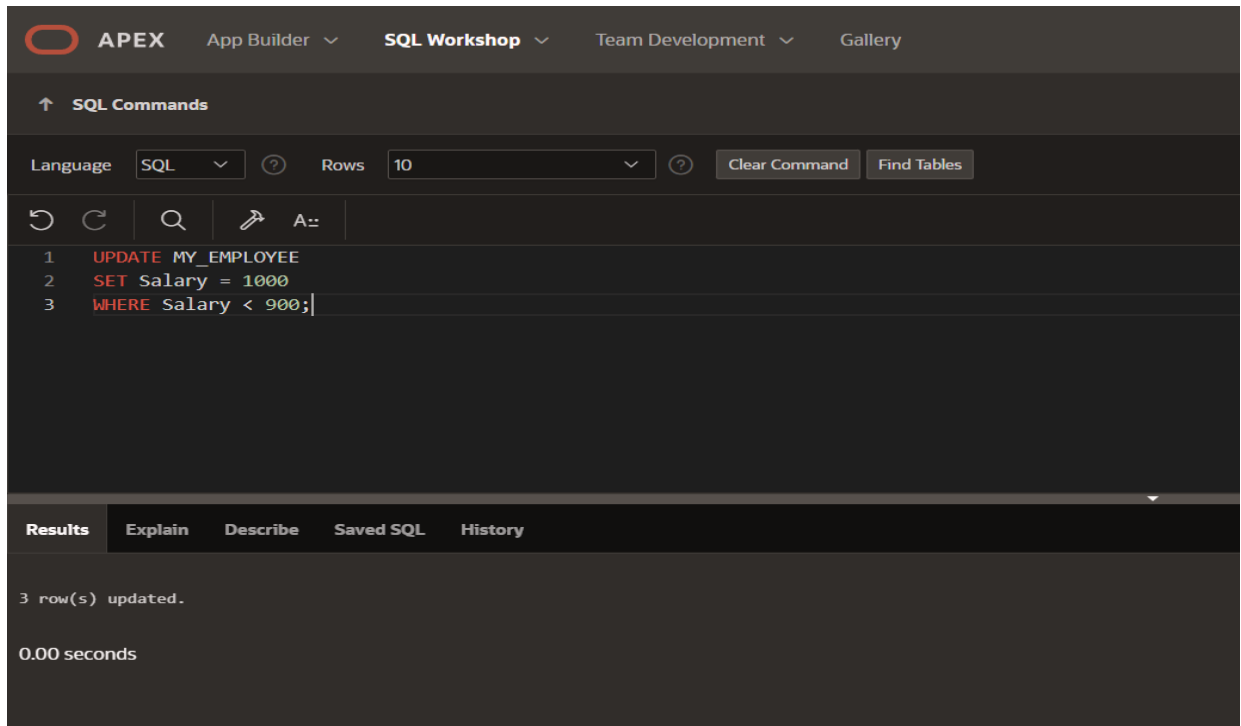
```
1 SELECT * FROM MY_EMPLOYEE
2 WHERE ID = 3;
```

Below the editor, the 'Results' tab is selected, displaying a table with the following data:

ID	LAST_NAME	FIRST_NAME	USERID	SALARY
3	Drexler	Ben	BBiri	1100

Below the table, the message '1 rows returned in 0.02 seconds' and a 'Download' link are visible.

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



The screenshot shows the APEX SQL Workshop interface. The top navigation bar includes 'APEX', 'App Builder', 'SQL Workshop', 'Team Development', and 'Gallery'. The 'SQL Commands' section is active, displaying a command editor with the following SQL code:

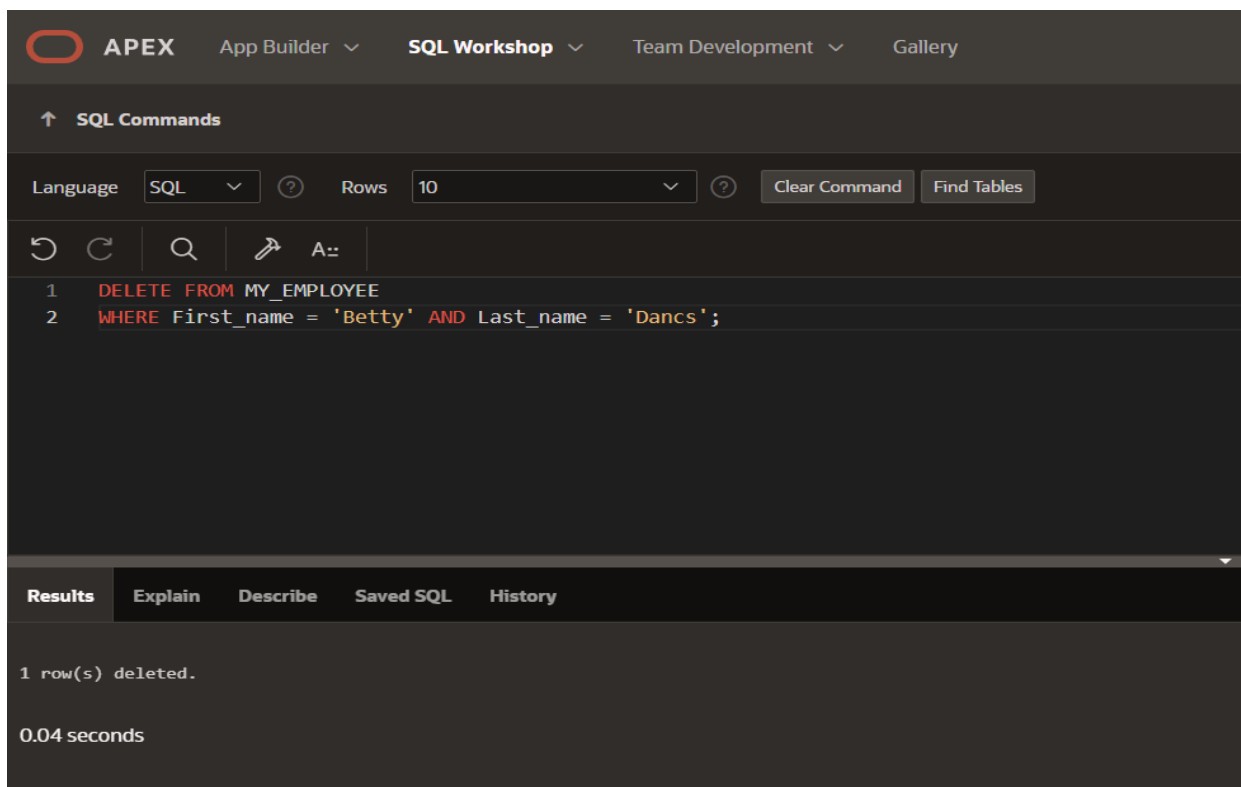
```
1 UPDATE MY_EMPLOYEE
2 SET Salary = 1000
3 WHERE Salary < 900;
```

Below the editor, the 'Results' tab is selected, showing the execution outcome:

3 row(s) updated.

0.00 seconds

8. Delete Betty dancs from MY_EMPLOYEE table.



The screenshot shows the APEX SQL Workshop interface. The top navigation bar includes 'APEX', 'App Builder', 'SQL Workshop', 'Team Development', and 'Gallery'. The 'SQL Commands' section is active, displaying a command editor with the following SQL code:

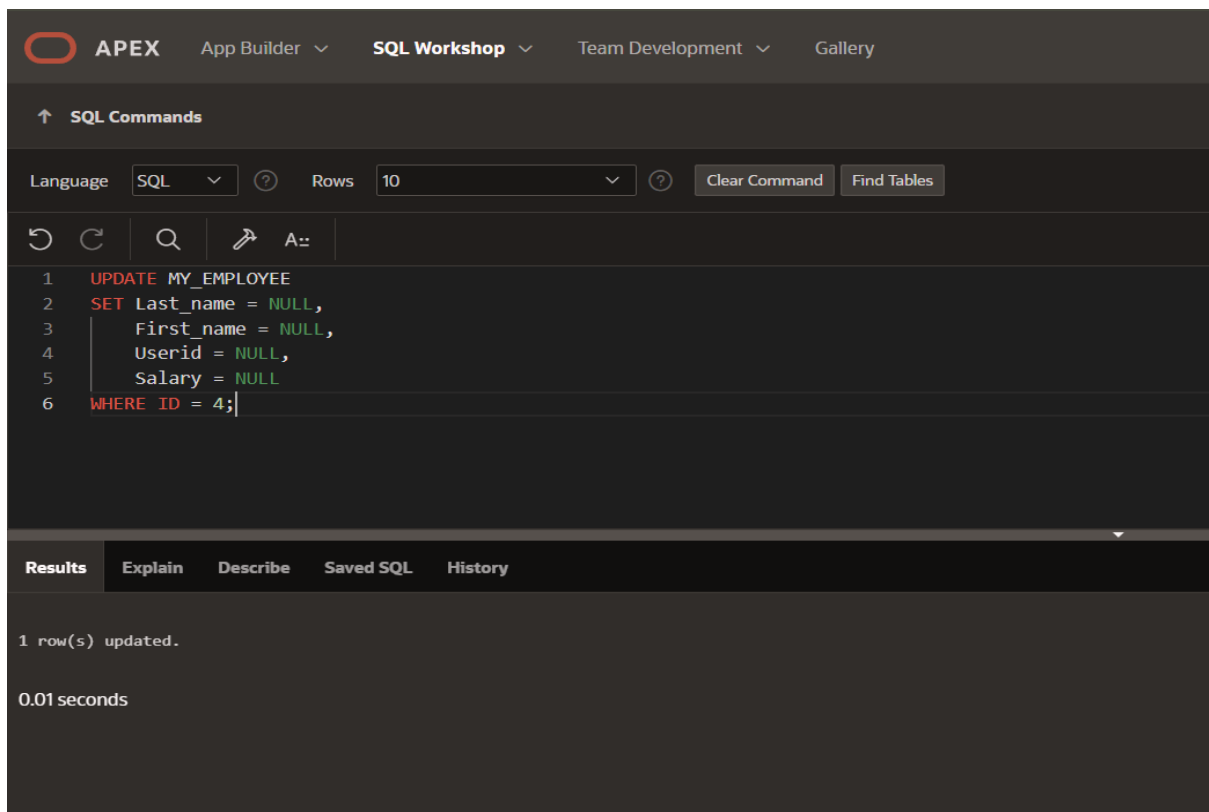
```
1 DELETE FROM MY_EMPLOYEE
2 WHERE First_name = 'Betty' AND Last_name = 'Dancs';
```

Below the editor, the 'Results' tab is selected, showing the execution outcome:

1 row(s) deleted.

0.04 seconds

9. Empty the fourth row of the emp table.

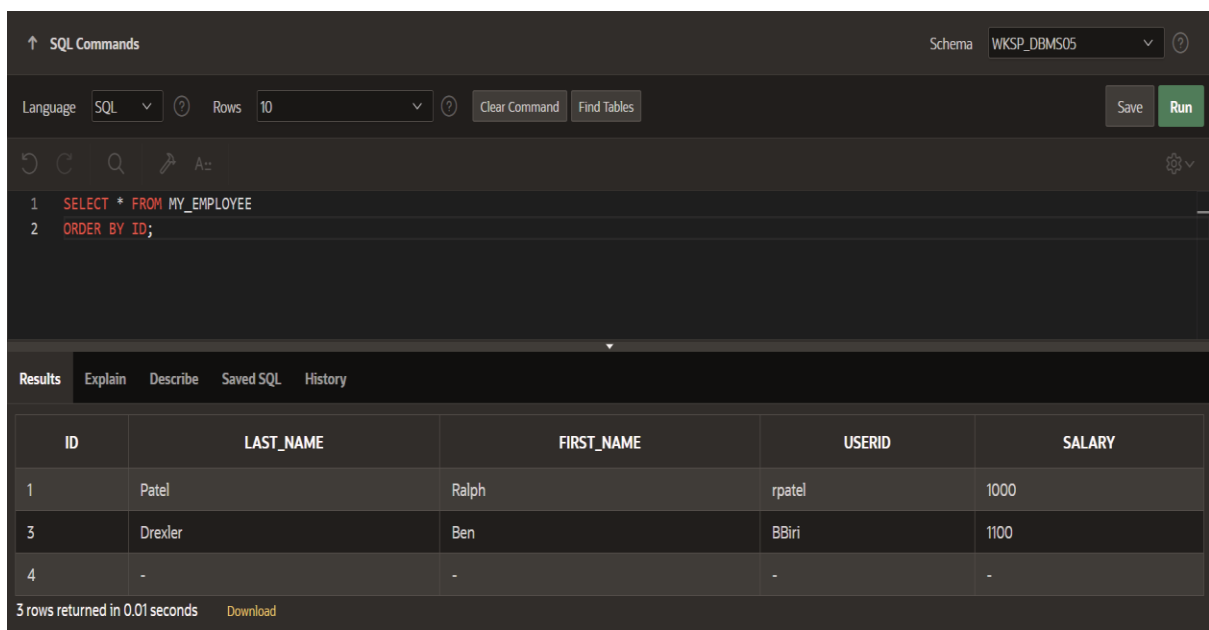


The screenshot shows the APEX SQL Workshop interface. The top navigation bar includes 'APEX', 'App Builder', 'SQL Workshop', 'Team Development', and 'Gallery'. The 'SQL Commands' section is active, showing a language dropdown set to 'SQL' and a 'Rows' limit of 10. The SQL command entered is:

```
1 UPDATE MY_EMPLOYEE
2 SET last_name = NULL,
3     First_name = NULL,
4     Userid = NULL,
5     Salary = NULL
6 WHERE ID = 4;
```

The 'Results' tab is selected, displaying the message '1 row(s) updated.' and a execution time of '0.01 seconds'.

To confirm the change:



The screenshot shows the APEX SQL Workshop interface with the 'Schema' dropdown set to 'WKSP_DBMS05'. The SQL command entered is:

```
1 SELECT * FROM MY_EMPLOYEE
2 ORDER BY ID;
```

The 'Results' tab is selected, displaying a table with 3 rows returned in 0.01 seconds. The table data is as follows:

ID	LAST_NAME	FIRST_NAME	USERID	SALARY
1	Patel	Ralph	rpatel	1000
3	Drexler	Ben	BBiri	1100
4	-	-	-	-

At the bottom, it states '3 rows returned in 0.01 seconds' with a 'Download' link.