

## EXERCISE-2

### MANIPULATING DATA





Name: Vedhasree S


Register Number: 240701580





Department: CSE





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-Z

```
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

↶ ↷ 🔍 ↗ A::


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)

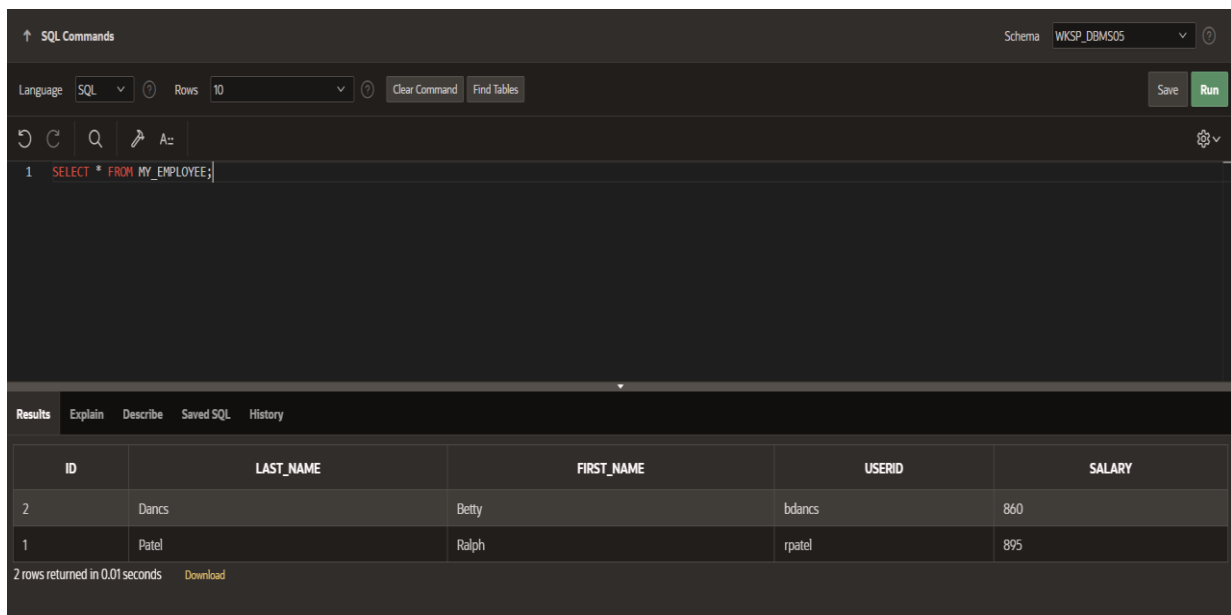
2 **VALUES** (2, 'Dancs', 'Betty', 'bdancs', 860);|

**Results** Explain Describe Saved SQL History

1 row(s) inserted.

0.00 seconds

### 3. Display the table with values.



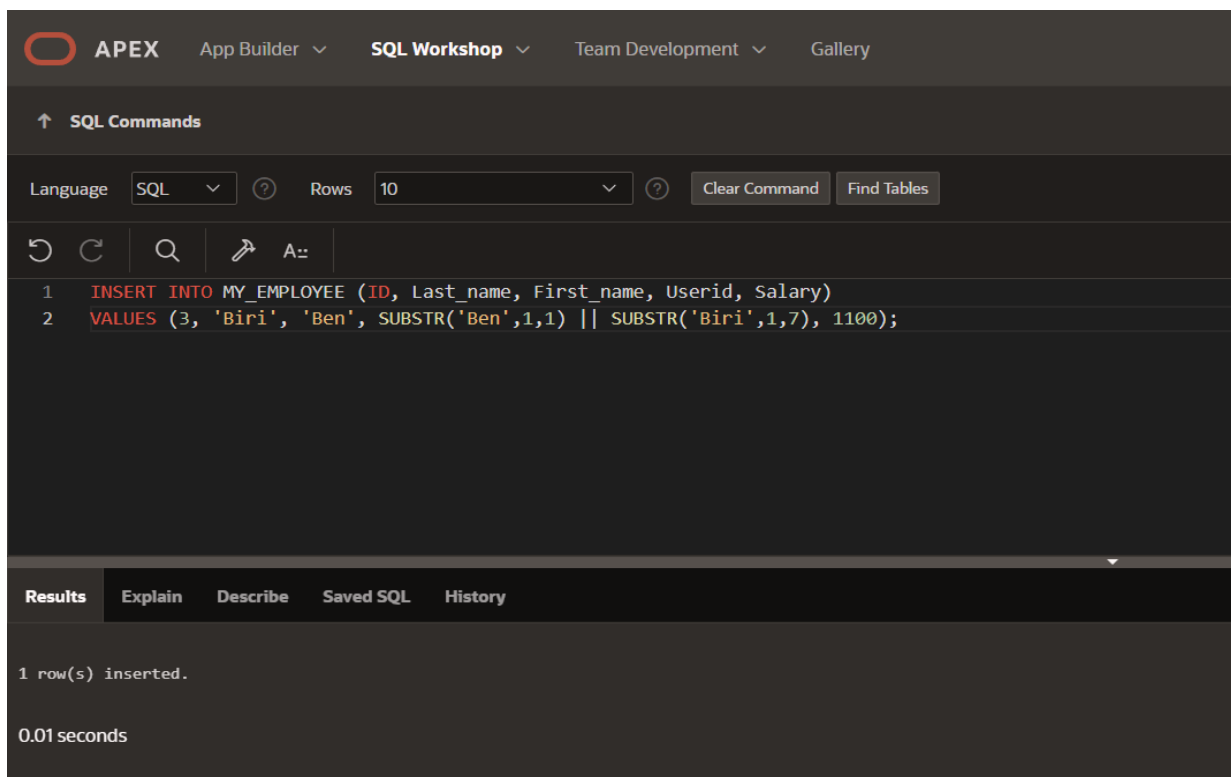
The screenshot shows the SQL Workshop interface with the following details:

- SQL Commands:** Language: SQL, Rows: 10. Command: `SELECT * FROM MY_EMPLOYEE;`
- Results:** A table with 2 rows and 5 columns: ID, LAST\_NAME, FIRST\_NAME, USERID, and SALARY.

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:** Language: SQL, Rows: 10. Command:  
`1 INSERT INTO MY_EMPLOYEE (ID, Last_name, First_name, Userid, Salary)`  
`2 VALUES (3, 'Biri', 'Ben', SUBSTR('Ben',1,1) || SUBSTR('Biri',1,7), 1100);`
- Results:** 1 row(s) inserted. 0.01 seconds

APEX App Builder SQL Workshop Team Development Gallery

↑ SQL Commands

Language SQL Rows 10 Clear Command Find Tables

```
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

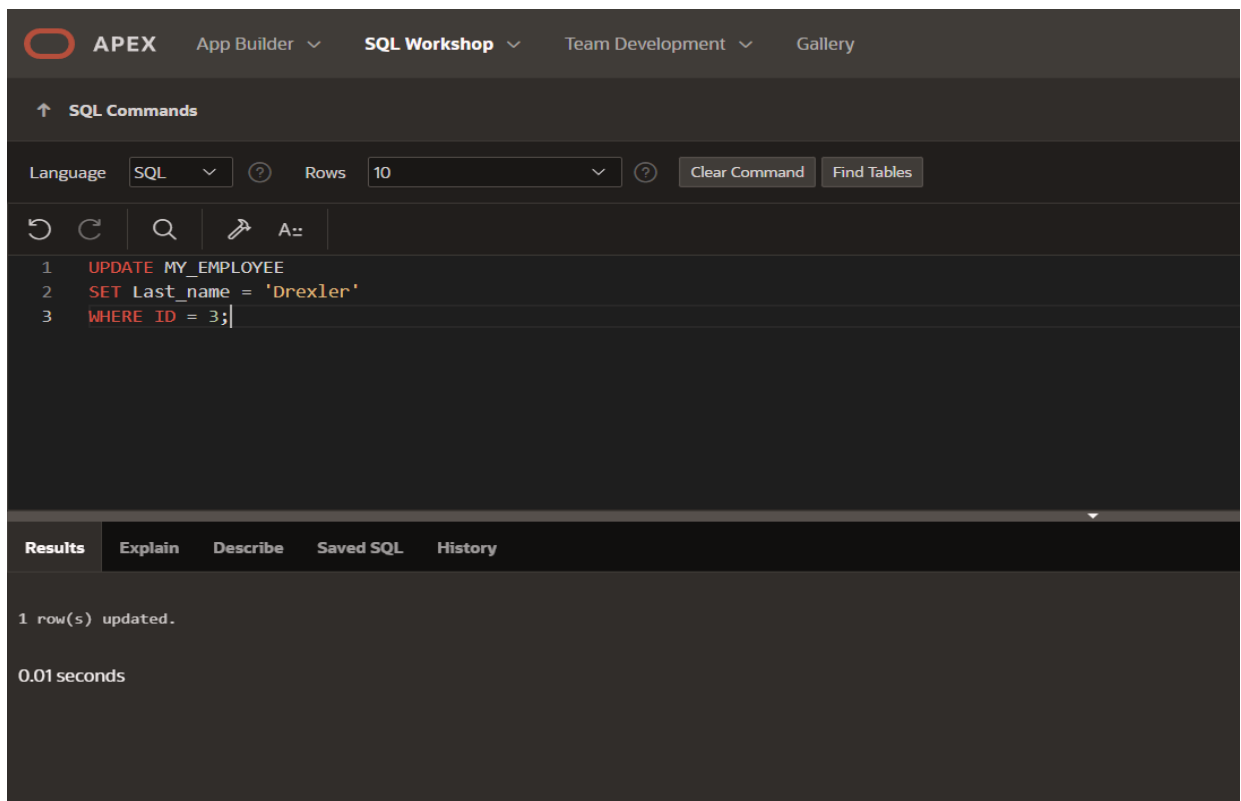
Language SQL Rows 10 Clear Command Find Tables

```
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

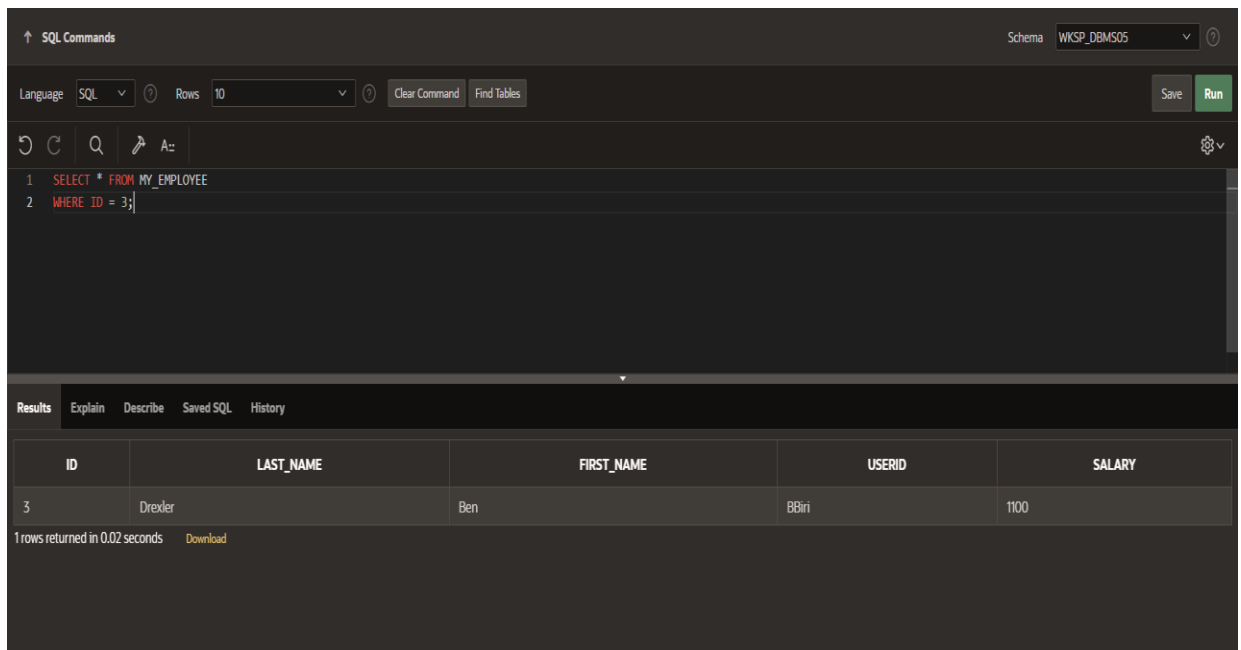


The screenshot shows the APEX SQL Workshop interface. The top navigation bar includes 'APEX', 'App Builder', 'SQL Workshop', 'Team Development', and 'Gallery'. The 'SQL Commands' section is active, showing a language dropdown set to 'SQL' and a 'Rows' limit of 10. The SQL command entered is:

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

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 command entered is:

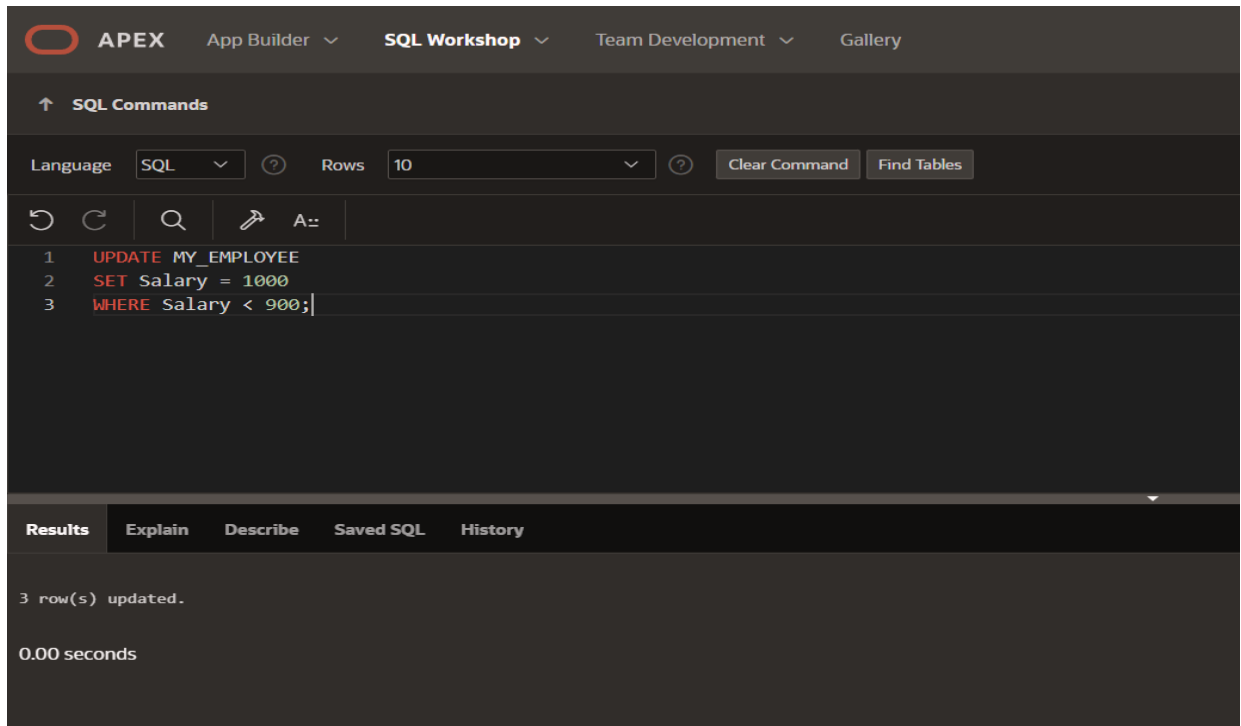
```
1 SELECT * FROM MY_EMPLOYEE
2 WHERE ID = 3;
```

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, it states '1 rows returned in 0.02 seconds' with a 'Download' link.

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:

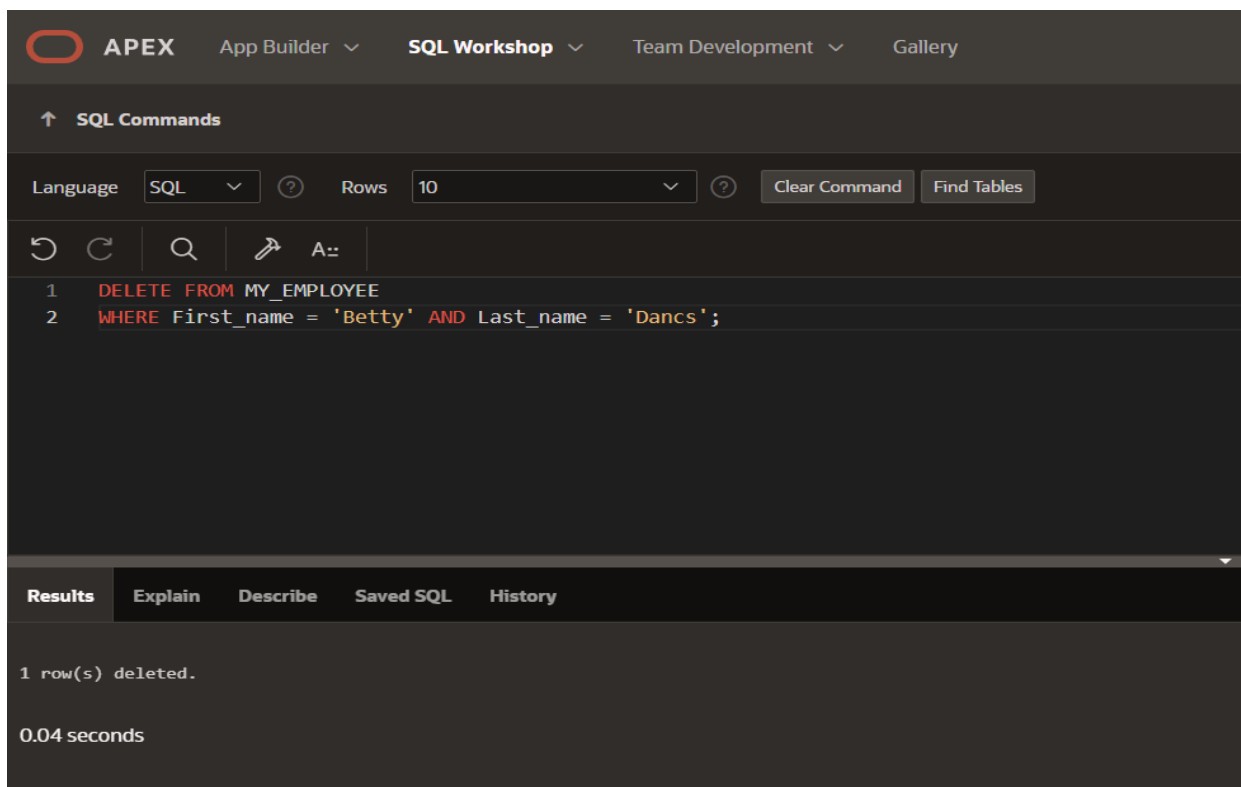
```
1 UPDATE MY_EMPLOYEE
2 SET Salary = 1000
3 WHERE Salary < 900;
```

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:

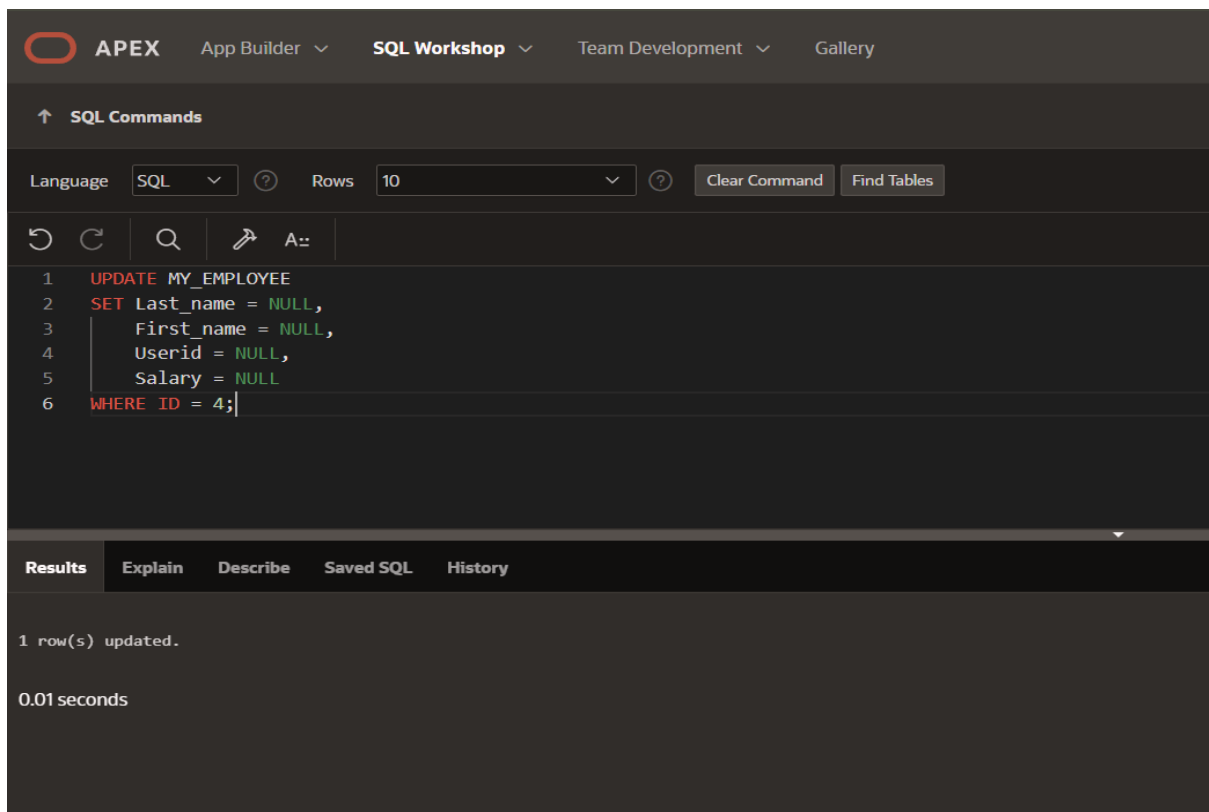
```
1 DELETE FROM MY_EMPLOYEE
2 WHERE First_name = 'Betty' AND Last_name = 'Dancs';
```

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.

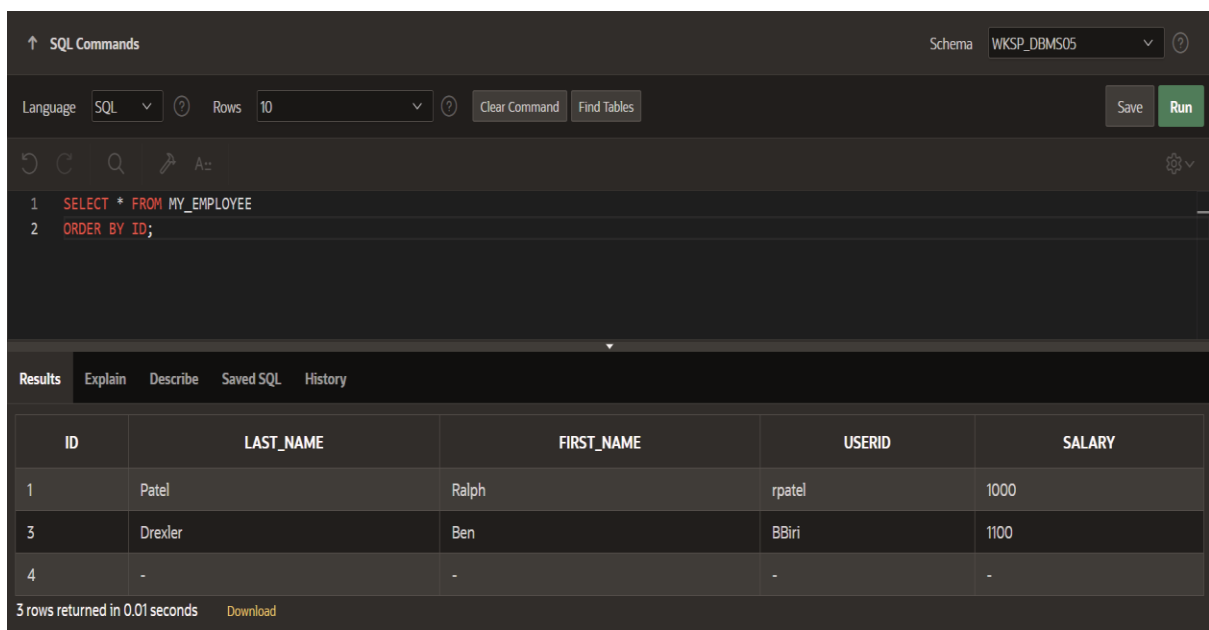


The screenshot shows the APEX SQL Workshop interface. The top navigation bar includes 'APEX', 'App Builder', 'SQL Workshop', 'Team Development', and 'Gallery'. The 'SQL Commands' section is active, showing a language dropdown set to 'SQL' and a 'Rows' limit of 10. The SQL command entered is:

```
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 has columns: ID, LAST\_NAME, FIRST\_NAME, USERID, and SALARY.

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

3 rows returned in 0.01 seconds [Download](#)