

EXERCISE-2

MANIPULATING DATA

OBJECTIVE

After, the completion of this exercise the students will be able to do the following

- Describe each DML statement
- Insert rows into tables
- Update rows into table
- Delete rows from table
- Control Transactions

A DML statement is executed when you:

- Add new rows to a table
- Modify existing rows
- Removing existing rows

A transaction consists of a collection of DML statements that form a logical unit of work.

To Add a New Row

INSERT Statement

Syntax

INSERT INTO table_name VALUES (column1 values, column2 values, ..., columnn values);

Example:

INSERT INTO department (70, 'Public relations', 100,1700);

Inserting rows with null values

Implicit Method: (Omit the column)

INSERT INTO department VALUES (30,'purchasing');

Explicit Method: (Specify NULL keyword)

INSERT INTO department VALUES (100,'finance', NULL, NULL);

Inserting Special Values

Example:

Using SYSDATE

INSERT INTO employees VALUES (113,'louis', 'popp', 'lpopp','5151244567',SYSDATE,
'ac_account', 6900, NULL, 205, 100);

Inserting Specific Date Values

Example:

Find the Solution for the following:

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)

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	Dances	Betty	bdances	860
3	Biri	Ben	bbiri	1100
4	Newman	Chad	Cnewman	750
5	Ropebur	Audrey	aropibur	1550

3. Display the table with values

```
select * from MY_EMPLOYEE ;
```

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.

```
Insert into MY_EMPLOYEE (ID, last-name, First-name, Userid, salary)
VALUES (3, 'Bin', 'Ben', 'bbiri', 1100);
Insert into MY_EMPLOYEE (ID, last-name, First-name, Userid, salary)
VALUES (4, 'Newmann', 'Chad', 'Cnewman', 750);
```

5. Make the data additions permanent.

```
COMMIT ;
```

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

```
UPDATE MY_EMPLOYEE
SET Last-name = 'Drexler'
WHERE ID = 3;
```

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

```
UPDATE MY_EMPLOYEE SET SALARY = 1000  
WHERE salary < 900 ;
```

8. Delete Betty dances from MY_EMPLOYEE table.

```
DELETE FROM MY_EMPLOYEE WHERE first_name = 'Betty'  
AND last_name = 'Dance' ;
```

9. Empty the fourth row of the emp table.

```
DELETE FROM MY_EMPLOYEE  
WHERE first_name = 'Betty' AND last_name = 'Dance' ;
```

Evaluation Procedure	Marks awarded
Query(5)	5
Execution (5)	5
Viva(5)	5
Total (15)	15
Faculty Signature	R.D.L 9/9/25

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