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:

INSERT INTO employees VALUES (114,'den', 'raphealy', 'drapheal', '5151274561',
TO_DATE('feb 3,1999','mon, dd ,yyyy'), 'ac_account', 11000,100,30);

To Insert Multiple Rows

& is the placeholder for the variable value
Example:

INSERT INTO department VALUES (&dept_id, &dept_name, &location);
Copying Rows from another table

➢   Using Subquery
Example:

INSER INTO sales_reps(id, name, salary, commission_pct)
        SELECt employee_id, Last_name, salary, commission_pct
FROM employees
WHERE jod_id LIKE '%REP');
CHANGING DATA IN A TABLE

UPDATE Statement
Syntax1: (to update specific rows)

UPDATE table_name SET column=value WHERE condition;

Syntax 2: (To updae all rows)

UPDATE table_name SET column=value;

Updating columns with a subquery

UPDATE employees
SET job_id= (SELECT job_id
FROM employees
WHERE employee_id=205)
WHERE employee_id=114;

REMOVING A ROW FROM A TABLE

DELETE STATEMENT

Syntax

DELETE FROM table_name WHERE conditions;

Example:
        DELETE FROM department WHERE dept_name='finance'';

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	Dancs	Betty	bdancs	860
3	Biri	Ben	bbiri	1100
4	Newman	Chad	Cnewman	750
5	Ropebur	Audrey	aropebur	1550

3. Display the table with values.

```
select * from my-employee

ID    first_name   last-name    user-id     salary
      patel        Ralph        rpatel      895
1.    Dancs        Betty        bdanles     860
2.    Biri         Ben          bbiri       1100
3.    Newman       chad         cnewman     750
4.    Ropebur      Audrey       aropebur    1550
5.
```

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.

5. Make the data additions permanent.

```
BEGIN TRANSACTION

INSERT INTO MY-EMPLOYEE VALUES ( 3, Biri, "Ben", "bbiri", 1100).

COMMITT;
```

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

```
Update MY-ENPLOYEE Set-lastname = "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 dancs from MY _EMPLOYEE table.

```
delete from MY_EMPLOYEE where first_name = "dancs";
```

9. Empty the fourth row of the emp table.

```
Empty from MY_ENPLOYEE
```

Evaluation Procedure	Marks awarded
Query(5)	
Execution (5)	
Viva(5)	
Total (15)	
Faculty Signature	