EXERCISE 2: DDL AND DML COMMANDS

Aim:

To understand and execute various SQL commands for defining and manipulating data in a relational database.

Description:

DDL COMMANDS:

1. CREATE

Used to create a new table in the database with the specified column names and data types.

It defines the structure of the table.

Syntax:

CREATE TABLE table_name(column1 datatype, column2 datatype, ...);

2. DROP

Used to remove an existing table from the database completely.

All the data and the structure will be lost.

Syntax:

DROP TABLE table_name;

3. ALTER

Used to make changes in the structure of an existing table.

It can add or modify columns in the table.

Syntax:

ALTER TABLE table_name ADD(column_name datatype);

ALTER TABLE table_name MODIFY(column_name new_datatype);

4. TRUNCATE

Used to delete all records from a table without removing its structure.

It is faster than the DELETE command.

Syntax:

TRUNCATE TABLE table_name;

5. RENAME

Used to change the name of an existing table in the database.

Only the name changes; the data and structure remain the same.

Syntax:

RENAME old_table_name TO new_table_name;

DML COMMANDS:

1.INSERT

Used to insert new rows of data into a table.

Values should match the table structure.

Syntax:

INSERT INTO table_name VALUES(value1, value2, ...);

2.SELECT

Used to retrieve specific or all data from a table.

Can be used with conditions, filters, and functions.

Syntax:

SELECT * FROM table_name;

SELECT column1, column2 FROM table_name;

SELECT DISTINCT(column_name) FROM table_name;

SELECT column1, column2 FROM table_name WHERE condition;

3.UPDATE

Used to change existing data in one or more columns.

Can be applied with or without a condition.

Syntax:

UPDATE table_name SET column_name = value WHERE condition;

UPDATE table_name SET column_name = value;

4.DELETE

Used to remove one or more records from a table.

Can delete selected rows or all rows.

Syntax:

DELETE FROM table_name WHERE condition;

DELETE FROM table_name;

Result:				
Thus the S	QL commands wer	e successfully exe	ecuted and perforr	med the intende