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## Department of Multidisciplinary Engineering

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populate/modify it with the help of DML. Title: Create a database with appropriate constraints using DDL and

## Description:

schema and is used to create and modify the structure of database objects in the to define the database schema. It simply deals with descriptions of the database Data Definition Language (DDL) actually of the SQL commands that can be used

Language and this includes most of the SQL commands. manipulation of data present in the database belong to DML or Data Manipulation Data Manipulation Language (DML) The SQL commands that deals with the database.

datatype,....); Syntax: CREATE TABLE table\_name( colum1 datatype, column2 1) Create: create database or its objects (table, views, index, function) Screenshots/Output:

```
биету ОК,
     (Des 01.0) betoefted (0.10 sec)
                                 !( <-
     items_donated VARCHAR(50)
             phone VARCHAR(20),
         ngo_email VARCHAR(50),
ngo_id VARCHAR(50) PRIMARY KEY,
                                    <-
         ngo_name VARCHAR(100),
                 mysql> CREATE TABLE ngo(
                        Database changed
                   nysql> use donation;
  Query OK, 1 row affected (0.10 sec)
      mysql> CREATE DATABASE donation;
```

Syntax: DROP TABLE table\_name; 2) Drop: Delete object from database

Query OK, O rows affected (0.04 sec) mysql> DROP TABLE ngo;

3) Truncate: Remove all records from table. Syntax: TRUNCATE TABLE table\_name;

mysql> TRUNCATE TABLE ngo; Query OK, 0 rows affected (0.07 sec)

4) Alter: Alter the structure of the database. Type:

• Add a Column: Insert a new column into an existing table.
Syntax: ALTER TABLE table\_name ADD column\_name datatype;

• **Modify a Column:** Change the data type or properties of an existing column.

Syntax: ALTER TABLE table\_name MODIFY column\_name new\_datatype;

• Rename a Table: Change the name of the entire table.
Syntax: RENAME TABLE old\_table\_name;

Rearrange Columns: Reorder the columns in a table.
Syntax: ALTER TABLE table\_name MODIFY Column\_name datatype
AFTER another\_column;

Change: Change the name of an existing column.
Syntax: ALTER TABLE table\_name CHANGE old\_name new\_name;

mysql> ALTER TABLE ngo ADD ngo\_add VARCHAR -> (100); Query OK, O rows affected (0.03 sec) Records: O Duplicates: O Warnings: O mysql> ALTER TABLE ngo MODIFY phone VARCHAR(30); Query OK, O rows affected (0.02 sec) Records: O Duplicates: O Warnings: O

mysql> ALTER TABLE ngo RENAME ngo\_details; Query OK, 0 rows affected (0.03 sec)

```
mysql> ALTER TABLE ngo_details ADD pin INI AFTER ngo_add;
Query OK, O rows affected (0.04 sec)
Records: O Duplicates: O Warnings: O
mysql> ALTER TABLE ngo_details change phone ngo_phone VARCHAR(30);
Query OK, O rows affected (0.03 sec)
Records: O Duplicates: O Warnings: O
```

5) **Insert**: Insert into table values.

Syntax : INSERT INTO table\_name(column1, culumn2,....);

VALUES(value1, value2,....);

mysql> INSERT INTO ngo\_details (ngo\_name, ngo\_id, ngo\_email, ngo\_phone, ngo\_add, items\_donated) VALUES
-> ('Smile Foundation', 'N001', 'smile@gmail.com', '0123456789', 'Pune, Maharashtra', 'Clothes = 50,
Food = 30'),
-> ('Aasha NGO', 'N002', 'aasha.30@gmail.com', '9876543210', 'Mumbai, Maharashtra', 'Food = 100, Boo
-> ('Aasha NGO', 'N002', 'aasha.30@gmail.com', '9876543210', 'Maharashtra', 'Books = 30, Toys =
-> ('Helping Hands', 'N003', 'care@gmail.com', '1234567890', 'Nashik, Maharashtra', 'Books = 30, Toys =
-> ('Helping Hands', 'N004', 'Helping.hands@gmail.com', '987654321', 'Nagpur, Maharashtra', 'Medici nes = 20, Clothes = 50'),
-> ('Helping Hands', 'N004', 'Helping.hands@gmail.com', '9871234560', 'Aurangabad, Maharashtra', 'Toy
-> ('Sankalp Foundation', 'N005', 'sankalp@gmail.com', '9871234560', 'Aurangabad, Maharashtra', 'Toy
-> ('Sankalp Foundation', 'N005', 'sankalp@gmail.com', '9871234560', 'Aurangabad, Maharashtra', 'Toy
-> ('Books = 50'),
-> ('Helping Hands', 'N005', 'sankalp@gmail.com', '9871234560', 'Aurangabad, Maharashtra', 'Toy
-> ('Yelping Hands', 'N005', 'sankalp@gmail.com', '9871234560', 'Aurangabad, Maharashtra', 'Toy
-> ('Yelping Hands', 'N005', 'sankalp@gmail.com', '9871234560', 'Aurangabad, Maharashtra', 'Toy
-> ('Yelping Hands', 'N005', 'sankalp@gmail.com', '9871234560', 'Aurangabad, Maharashtra', 'Toy
-> ('Yelping Hands', 'N005', 'sankalp@gmail.com', '9871234560', 'Aurangabad, Maharashtra', 'Toy
-> ('Yelping Hands', 'N005', 'Sankalp@gmail.com', '9871234560', 'Noundation', 'Toy
-> ('Yelping Hands', 'N005', 'Mundation', 'N005', 'Sankalp@gmail.com', '9871234560', 'Noundation', 'Toy
-> ('Yelping Hands', 'N005', 'N005', 'Yelping Hands', 'N005', 'N006', 'N0

6) Delete: Delete record from database table. Syntax: DELETE FROM table\_name WHERE condition;

mysql> DELETE FROM ngo\_details WHERE ngo\_id = 'N004'; Query OK, l row affected (0.0l sec)

7) Update: Update existing data within a table.
Syntax: UPDATE TABLE table\_name SET column\_name = value WHERE

condition;

```
mysql> UPDATE ngo_details SET ngo_email = 'sankalp.001@gmail.com' WHERE ngo_id = 'N005';
Query OK, l row affected (0.01 sec)
Rows matched: l Changed: l Warnings: 0
```