

The LNM Institute of Information Technology, Jaipur

IDBMS Lab

Assignment 2- Data Definition Language

Some basic commands:

1. List all databases
`show databases;`
2. Create a database
`create database <databaseName>;`
3. Switch to a database
`use <databaseName>;`
4. To see all the tables in the database
`show tables;`
5. To see database's field format
`describe <tableName>;`
6. Returns the columns and column information pertaining to the designated table.
`show columns from <tableName>;`

Create a database for **coffee_store** consisting of three tables namely, Products, Customers, and Orders.

- i. products (*productID, Name, Price*)
The Products table consists of details of *productID, Name, and Price* attributes. Set *productID* as the PRIMARY KEY. *Price* should be set to NOT NULL. Choose the appropriate data type for the attributes.
- ii. customers (*customerID, First_Name, Last_Name, Gender, ContactNumber*)
Customers table consists of *customerID, First_Name, Last_Name, Gender, and ContactNumber* attributes. Set *customerID* as the PRIMARY KEY. Attribute *Gender* can have only two values M/F. Choose the appropriate data type for the attributes.
- iii. orders (*orderID, productID, customerID, Date_Time*)
Orders tables consists of details of *orderID, productID, customerID, and Date_Time* attributes. Set *orderID* as the PRIMARY KEY. Note that the *productID* should be a FOREIGN KEY which should reference to the *productID* of products table and the *customerID* should be a FOREIGN KEY which should references to the *customerID* of customers table. Choose the appropriate data type for the attributes.

Perform the following queries:

1. Add column *CoffeeOrigin* in the products table. (Check using describe <tableName>)
2. Drop column *CoffeeOrigin* in the products table (Again add the column *CoffeeOrigin*).
3. Delete table products from the database **coffee_store**. (Note: Create the table again after deletion)
4. Insert 2-3 records in the table using command
INSERT INTO products (*productID*, *Name*, *Price*, *CoffeeOrigin*)
VALUES (1, 'Espresso', 2.50, 'Brazil');
INSERT INTO products (*productID*, *Name*, *Price*, *CoffeeOrigin*)
VALUES (2, 'Cappuccino', 3.50, 'CostaRica');
Now, delete all data from the products table using a single command.
(Note: Don't delete the entire table delete only the data)

Reference Material:

1. For syntax of different queries
https://www.w3schools.com/sql/sql_default.asp
2. <https://www.w3resource.com/sql/tutorials.php>