The LNM Institute of Information Technology, Jaipur

IDBMS Lab

Assignment 4- Data Manipulation Language - I

Topics Covered in this Lab:

1. Insert data into table
2. Update data in a table
3. Delete data from a table
4. Select
5. Where
6. Using Inequality symbols
7. Null values

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

i.   products (*productID, Name, Price, CoffeeOrigin*)
The Products table consists of details of *productID, Name, and Price* attributes. Set *productID* as the PRIMARY KEY and AUTO INCREMENT. *Name* will be of *varchar(30)* type, *Price* should be a decimal value which should accept values upto 9.99 and *CoffeeOrigin* should of varchar(30) type.

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 and AUTO INCREMENT. Set *First_Name* and *Last_Name of varchar(30)* type. Attribute *Gender* can have only two values M/F. *ContactNumbe*r should be of upto 11 digits.

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 and AUTO INCREMENT. 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. *Date_Time* should of type datetime.

Perform the following queries:

1. Insert following data in table products

ProductID	Name	Price	CoffeeOrigin
1	Espresso	2.50	Brazil
2	Macchiato	3.00	Brazil
3	Cappuccino	3.50	Costa Rica
4	Latte	3.50	Indonesia
5	Americano	3.00	Brazil
6	Flat White	3.50	Indonesia
7	Filter	3.00	India

2. Update data in product table
   i. Update *CoffeeOrigin* to Sri Lanka where *ProductID* is 7.
   ii. Update Price=3.25 and CoffeeOrigin to Ethiopia where Name is Americano (**If you are facing any problem in this query then find the reason and also find the solution to perform this query**)
   iii. Set *CoffeeOrigin* to Colombia where *CoffeeOrigin* is Brazil

3. Delete data from products table
   i. Delete from products where *Name* is Flat White (Insert the same data again)
   ii. Delete from products where *Price* is 3.50 (Insert the same data again)
4. Complete the **coffee_store** database using the files (customer.txt and orders.txt) provided for customers and orders table.
5. Display the Last Name of all the customers.
6. Display the Last Name and ContactNumber of all customers.
7. Find all the products where CoffeeOrigin is Colombia.
8. Find all the products where price is 3.00
9. Find all the products where price is 3.00 and coffee origin is Colombia
10. Find all the products where price is 3.00 or coffee origin is Colombia
11. Find all the products where price is equal or more than 3.00
12. Find out the list of customers who have not provided their contact number

Reference Material:

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