The LNM Institute of Information Technology, Jaipur

IDBMS Lab

Assignment 5- Data Manipulation Language - II

Topics Covered in this Lab:

1. IN / NOT IN
2. Between
3. Like
4. Order by
5. Distinct
6. Limit
7. Column name alias
8. Joins (Inner join/ Left join/ Right join)

Perform the following queries using the coffee_store database created in Assignment 4 –DML-I

Note: Tables products, customers, and orders should have the complete data as given in Assignment 4

1. Find the list of customers whose last name is Taylor or Bluth or Armstrong. (**Use IN**)

2. Find the list of customers whose first name is not Katie or John or George. (**Use NOT IN**)

3. Find out the order details (productID, customerID, Date_Time) which are placed between '2017-01-01' to '2017-01-07'.

4. List the order details of customers with customersID between 5 and 10.

5. Find out the list of customers whose last name should start with any alphabet between A and L.

6. Find out the list of customers whose last name should start with 'W'.

7. Find out the list of customers whose last name should end with 'o'.

8. Find out the list of customers who have alphabet 'o' in their first name.

9. Find out the product details whose price is starting with 3.
10. List the products with ascending order of their price.
11. List the customers with ascending order of their last name (starting with A to Z).
12. Find out the orders placed by customer with customerID ‘1’ and list his orders from most recent order to oldest order.
13. Find out the distinct list of countries whose coffee product is there in the coffee_store.
14. Find out how many distinct customers (customer id) have placed their order from 2017-02-01 to 2017-02-28
15. Find out the 5 customers with customer id starting from 6.
16. List out top 10 customers ordered by their last name.
17. From the products table, select the Name, Price, and Coffee Origin but rename the Name as Product Name and CoffeeOrigin as Country in the result set.
18. Find out the name of all the products along with their order date and time information whose order is placed by all the customers.
19. Find out the newest to oldest orders placed for the product ‘Americano’. Display the product name, price, order data and time for these orders.
20. List out the first name and contact numbers of the customers who have placed order for product ‘Espresso’.
21. Find out the order ID, first name, last name, contact number, and order time of top 10 most recent to oldest orders.

For queries 22-23: **USE LEFT JOIN**

First run below query to understand left join

update orders set customerID=null where orderID=1;

22. Find out the order ID, first name, last name, contact number, and order time of top 10 oldest to newest orders. (Use orders table as left table)
23. Find out the order ID, first name, last name, contact number, and order time of top 10 oldest to newest orders. (Use customers table as left table)
    (**Observe the results for both these queries to know the working of left join**)

For queries 24-25: **USE RIGHT JOIN**

24. Find out the order ID, first name, last name, contact number, and order time of top 10 oldest to newest orders. (Use orders table as left table)
25. Find out the order ID, first name, last name, contact number, and order time of top 10 oldest to newest orders. (Use customers table as left table)
    (**Observe the results for both these queries to know the working of right join**)
    Again update the orders table using below query

    update orders set customerID=1 where orderID=1;
26. Find out the details of the orders with name of the products, product price, first and last names of customers who have purchased them with the order date and time information.
27. Find out the newest to oldest orders placed by the customer whose last name is 'Martin'. List the name of the product, price, first name, last name, and order date and time.

Reference Material:

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