COURSE 2 - MYSQL DATABASE

(Unit - 06 : Operators Practice Questions)

Instruction

- Make sure to follow the standards and naming conventions while creating tables, columns, etc.
- Please create a database schema before starting SQL operations if the schema doesn't exist.
- Ensure you set the database scheme you want to work with before starting SQL operations.
- Make sure to include audit columns with default values when creating tables so the system will use them if the user provides no value.
- Be sure to include the necessary columns when creating tables to maintain the history of the event or transaction.

1 Arithmetic Operators:

Here are some practice questions for arithmetic operators based on the provided dataset:

1) Calculate the total number of characters in the addresses combined and perform addition total number of characters in email addresses in the table DSAI_M_Customer ?
2) Calculate sales_price for the data in the DSAI_T_Sales Table

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2 Comparison Operators

1. How many records have a sales quantity greater than 2?
2. Which location has the highest sales quantity?
3. How many records have a unit price code equal to 'UPC002'?
4. How many records have a sales date before January 15, 2010?
5. How many records have a currency code other than USD?
6. Which product has the highest sales quantity?
7. How many records have a loyalty program code?
8. How many records have a promotion code and a discount code filled?
9. Which location has the lowest sales quantity?
10. How many products have a unit of measure of 'Litre'?

3. Logical Operators:

1. How many customers have a phone number starting with '91' and an email address containing '@gmail.com'?
2. Which customers have either a location code starting with 'L0' or an address containing the word 'road'?
3. Identify the customers whose names start with 'A' and have an email address ending with '@yahoo.com'.
4. Find customers whose phone numbers contain '876' or have a name starting with 'R' and an address containing 'street'.
5. Determine customers who have either a phone number ending with '8888' or an email address containing 'DSAI'.

6. How many customers have both an email address and a phone number?
7. Find customers who have a name starting with 'A' or an address ending with 'Market'.
8. Identify customers whose phone numbers contain '7890' and have either a name starting with 'N' or an email address ending with '.com'.
9. Determine customers who either have a name containing 'thik' or an email address starting with 'Trishi'.
10. Find customers who have both a phone number starting with '91' and an email address starting with 'sunil'.

5 LIKE Operator:

1. Retrieve all records where the name starts with 'A'.

2. Find all records where the email contains 'gmail.com'.

3. Find all records where the address ends with 'road'.

4 Retrieve records where the name contains 'an' anywhere in the name.

5. Retrieve records where the email starts with 'A' and ends with 'com'.

6. Find records where the phone number contains '876' in any position.

7. Retrieve records where the address contains ',' (comma).
8. Retrieve records where the name has exactly 6 characters.

9. Find records where the phone number has exactly 10 digits.

10.Retrieve records where the address contains 'street' followed by any number of characters.

11. Find records where the email starts with 'r' followed by any number of characters and then '@'.

6 IN Operator:

1. How many customers are located in locations L005, L010, and L015?
2. Retrieve the details of customers whose locations are either L002 or L012.
3. Which customers have their Location Codes in the range L006 to L012?
4. List the customers whose Location Codes are not in L001, L003, or L005.
5. Find the count of customers whose Location Codes are either L008, L013, or L017.
6. Retrieve the details of customers located in locations L004, L006, and L014.
7. Identify customers whose Location Code is one of L007, L009, or L016.
8. List the customers whose Location Codes are neither L011 nor L018.
9. How many customers are located in L020 or L001?
10. Retrieve the details of customers with Location Codes L007, L009, L011, and L013.

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7 BETWEEN Operator:

1. Retrieve all records where the Customer_ID is between 'C000005' and 'C000015'.
2. Get the details of customers whose Location Code is between 'L005' and 'L010'.
3. Find the customers whose Created_DT falls between '2024-01-23 09:00:00' and '2024-01-23 11:00:00'.
4. Fetch the records of customers whose Phone numbers are between '91 8765000000' and '91 9170000000'.
5. Select all customers whose Updated_User is between 'DSAI User' and 'GPT User'.
6. Retrieve the details of customers whose Address is between '20, ABC Street' and '40, XYZ Road'.
7. Get the records of customers whose Email is between 'aaditya@gmail.com' and 'deepi@gmail.com'.
8. Find customers whose Name falls between 'Anil' and 'Deepika'.
9. Retrieve records of customers whose Updated_DT is between '2024-01-23 09:00:00' and '2024-01-23 11:00:00'.
10. Select all customers whose Created_User is between 'Admin' and 'User'.

8 IS NULL and IS NOT NULL Operators:

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1. Retrieve the records where the email address is not provided.
2. Find the customers whose phone numbers are not available.
3. List the customers whose address field is empty.
4. Identify the records where the Location Code is missing.
5. Select the customers whose updated user information is null.
6. Find the records where the created user information is not available.
7. Retrieve the customers whose email addresses are available.
8. List the records where the updated date and time are not provided.
9. Identify the customers whose names are not missing.
10. Select the records where the created date and time are provided.

9 Set Operators

1) Combine the customer names from two different locations into a single list, ensuring there are no duplicates.

2) Intersection:

- Find customers who have both a phone number and an email address provided.
- Identify customers who are located at addresses that have both a number and a street name.

3) Difference:

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- Determine the customers who have provided a phone number but not an email address.
- Find out customers who have provided an email address but not a phone number.

4) Symmetric Difference:

- Identify the customers who have either provided a phone number or an email address but not both.
- Determine the customers who are either located at addresses starting with a number or containing the word "road" but not both.

5) Subset and Superset:

- Check if the set of created users is a subset of updated users or vice versa.
- Determine if the set of customer names forms a superset of the set of location codes.

1. Retrieve all customers whose names are exactly 'Rachel' (case-sensitive).
2. Find all products with a product code exactly 'P001' (case-sensitive).
3. Retrieve all sales records where the product code starts with 'P' (case-sensitive).

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4. Find all customers whose email addresses contain '@gmail.com' (case-insensitive).
5. Retrieve all products whose names start with 'T' (case-insensitive).
6. Find all sales records where the discount code is 'DISC001' (case-sensitive).
7. Retrieve all customers whose names are 'John' or 'JOHN' (case-insensitive).