



(Unit -1-4: DDL and DML Commands Practice Questions)

Instructions:

- 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.

4.1 Creating Table

- Create a table "Customer" with two columns such as Customer ID and Customer Name.
- **2.** Replace the existing table "**Customer**" with two more Columns Email and Contact Number.
- **3.** Create a **Currency** Table with two Columns Currency code and Currency . Currency code has a primary key.
- **4.** Create a **Product** table with Product ID, Product Name . Product ID as AutoIncrement Field and Product Name with Not Null Constraints.
- **5.** Create a **User** table with UserID Primary key which accepts a string of 4 characters, username with 15 characters, last_login that should accept only date and Time.
- **6.** Create Table Account **Group Master** with two Column Group code and Group Name with storage Engine MylSAM. (Check which is the default storage engine).





(Unit -1-4: DDL and DML Commands Practice Questions)

- **7.** Create a table "Customer Favourite" with customer ID, Product Code, Last Purchase Date with two primary keys Customer ID and Product Code
- **8.** List all the tables under this database
- **9.** Show the structure of the Table Customer

4.2 Insert Operations

- 1. Insert 5 rows into the **Customer** Table one by one.
- 2. Insert 10 rows into the Customer Table using a Single Insert query.
- **3.** Insert a new record into the **Product** table with auto-generated product_id.
- **4.** Insert a new record into the **User** table, for current date time use now().
- Insert/load data into a table DSAI_T_Sales from a CSV file use all the columns in the file
- 6. Insert/load data into a table DSAI_T_Sales for the below given columns from the CSV file .(Change CSV file according to the requirement)
 - a. Customer_ID
 - b. Product_Code
 - c. Sales_Date
 - d. Sales_Quantity
 - e. Location_code
- 7. Insert/load data into a table DSAI_T_Sales for the below given columns from the CSV file .(Change CSV file according to the requirement)
 - a. Customer_ID
 - b. Product_Code
 - c. Sales_Date
 - d. Sales_Quantity
 - e. Location_code

Set the default values to other columns such as

- A. Created DT current DateTime
- B. Created_User DSAI_User2
- **8.** Insert data into a table **DSAI_M_Customer_Dup** from **DSAI_M_Customer** use all the columns in the table in the same order.





(Unit -1-4: DDL and DML Commands Practice Questions)

- 9. Insert data into a DSAI_M_Product_Dup from DSAI_M_Product table Leave the Product_Group_Code as Empty
- 10. Create Primary key to DSAI_T_Sales Table for Sales_Date, Customer_ID, Product_Code
- **11.** Add Foreign key Reference in **DSAI_T_Sales** Refer to Prouduct Master and Unit Price Master.

Instructions:

Set Database : Sales

4.3 Update Operations

- 1. Update the address of the DSAI_M_Customer with ID 2 as '789 Elm St'.
- 2. Increase the unit price of all products in DSAI_M_Unit_Price table 'PG001' by 10%.
- **3.** Update the **DSAI_T_Sales** table by loyalty program code for customers who have made purchases above \$50 to 'LPC003'.
- **4.** Update the **DSAI_M_Location** by Changing the location name of the location with code 'L002' to 'T Nagar'.
- **5.** Update the **DSAI_T_Sales** by sales quantity for all transactions made in February 2010 to be 5% higher than the original quantity.
- **6.** Update **DSAI_T_Sales** by Setting the promotion code for all sales made on or after Feb 1, 2010, to 'PRO0001'.

4.4 Alter Command

- In the Discount Master Table, Add Column Discount_Perc with Data type Decimal.
 And Update percentage into the table.
- 2. ADD Constraint to DSAI_T_Sales . Sales_Date to DSAI_M_Sales_Period. Sales_Date
- 3. Change Column data type to Enum for the column History in Dsai_T_Sales
- 4. Add Index to Dsai_M_Customer Table (Customer_ID)
- Change the Column Name "Name" in Customer Table to Customer Name and Datatype Varchar(100)





(Unit -1-4: DDL and DML Commands Practice Questions)

- 6. Drop Index created in Q4
- 7. Drop Constraint Created in Q2
- 8. ADD Primary key to the column Product Group Code in table DSAI Product Group

4.5 Delete Operations

- 1. Delete the customer with the ID C000003 from the **DSAI_M_Customer** database.
- 2. Remove all products belonging to the product group 'Oil from DSAI_M_Product'.
- 3. Remove all products from the **DSAI_M_Product** table with a unit price greater than 100.
- 4. Remove customers who have not made any purchases from DSAI_M_Customer.
- **5.** Delete the oldest 100 sales records from the **DSAI_T_Sales** database.
- 6. Delete all sales records from the **DSAI_T_Sales** table where the sales quantity is zero.
- Remove all discount codes from the DSAI_M_Discount_code table that are marked as expired.
- 8. Delete all records from the **DSAI_M_Sales_Period** table for the year 2022.

4.6 Drop Operations

- 1. Drop the DSAI_M_Product_Group table from the database.
- 2. Remove the DSAI_Sales table if it exists.

4.7 Truncate Operations

- Remove all the data from the DSAI_M_Customer table without using the delete command.
- 2. Truncate the **DSAI_M_Product_Group** table.
- 3. Remove all data from the DSAI Sales table and retain the structure.
- 4. Truncate the DSAI_M_Discount_Code table to eliminate all discount code entries.
- **5.** Clear all records from the **DSAI_M_Location_Code** table using TRUNCATE.