# **E-Commerce Database Management**

### **Creating Database:**

```
-- Creating DATABASE (Name: Wildcart)
   CREATE DATABASE Wildcart;
   USE Wildcart;
Categories Table:
       -- Categories Table
7 .
       CREATE TABLE Categories
    9
       CategoryName VARCHAR(100) NOT NULL,
       Description TEXT);
10
11
       SELECT * FROM Categories;
12 •
13
                                       Edit: 🚄 📆 📙 Export/Import: 🙀 🚳 | Wrap Cell Content: 🔼
CategoryID
            CategoryName
                          Description
            Electronics
                          Electronic gadgets and accessories
 2
           Fashion
                         Men and women apparel and accessories
 3
            Home Appliances Household electronic items
 4
           Books
                          Fiction and non-fiction books
 5
           Furniture
                          Home and office furniture
 6
           Health
                         Medicines for all health conditions
 7
                          Styling and cosmectic items
           Beauty
           Groceries
                         Packaged foods and fresh veggies and fruits
```

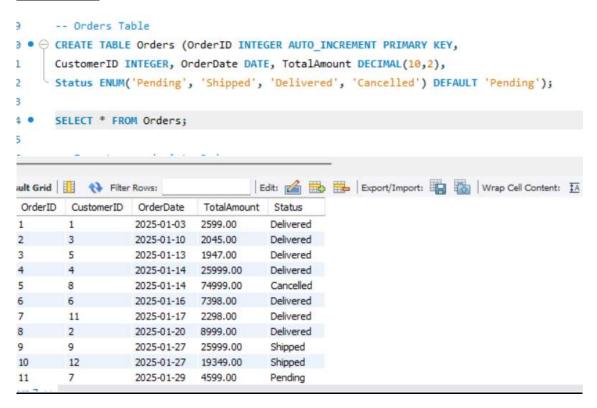
# **Products Table:**

```
-- Products Table
      CREATE TABLE Products
   (ProductID INTEGER AUTO INCREMENT PRIMARY KEY,
      ProductName VARCHAR(300) NOT NULL,
8
      CategoryID INTEGER, Price DECIMAL(10,2), Stock INTEGER,
      FOREIGN KEY (CategoryID) REFERENCES Categories(CategoryID));
0
1
      SELECT * FROM Products;
                                     Edit: 🚄 📆 📠 Export/Import: 🙀 🧓 Wrap Cell Content: 🗓
ProductID ProductName CategoryID
                                      Stock_UnitsOrKgs
                               Price
                               22599
         Smartphone
                                      50
2
                                     20
         Laptop
                1
                               74999
         Smartwatch 1
                               2599
                                      25
4
         Men T-Shirt 2
                               1499
                                     100
         Jeans
                               2399
                                      75
         Chudidar
                   2
                               499
                                     150
7
         Sweaters
                               1399
                                      70
         Footwear
                   2
                               799
                                     60
         Eyewear
                                      30
                               1599
10
         Wallets
                   2
                               899
                                     30
11
         Microwave
                               9999
                                      15
```

### **Customers Table:**

```
-- Customers Table
5 0
      CREATE TABLE Customers
   6
7
      LastName VARCHAR(50) NOT NULL, Email VARCHAR(50) UNIQUE NOT NULL,
      Phone VARCHAR(20));
8
9
      SELECT * FROM Customers;
0 0
                                     Edit: 🕍 📆 Export/Import: 📳 🦝 | Wrap Cell Content: 🖽
CustomerID FirstName LastName Email
                                                     Phone
          John
                    Doe
                             john.doe@example.com
                                                     6534776545
2
          Jane
                    Smith
                             jane.smith@example.com
                                                     7987654321
3
           Alice
                    Brown
                             alice.brown@example.com
                                                     6122334455
4
          Michael
                    Johnson
                             michael.johnson@example.com 8233445566
5
          Emma
                    Wilson
                             emma.wilson@example.com
                                                     6344556677
6
          Liam
                    Martinez
                             liam.martinez@example.com
                                                     8455667788
7
          Olivia
                    Anderson olivia.anderson@example.com
                                                     9566778899
          William
8
                             william.garcia@example.com
                    Garcia
                                                     8677889900
9
          Sophia
                    Thomas
                             sophia.thomas@example.com
                                                     7788990011
10
          James
                    Moore
                             james.moore@example.com
                                                     8899001122
11
                             troye.sivan@example.com
                                                     8885537114
          Troye
                    Sivan
```

## **Orders Table:**

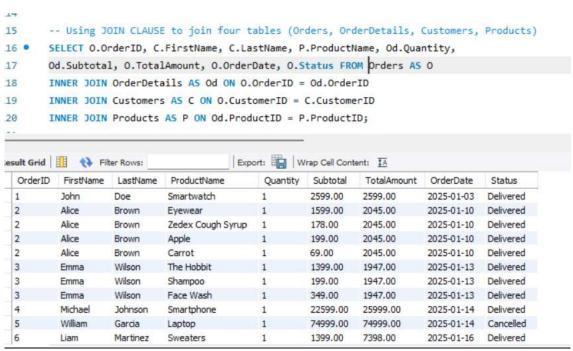


### **Order Details Table:**

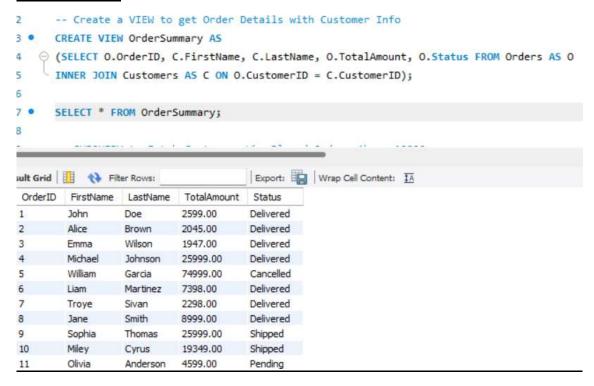
```
-- OrderDetails Table
5 •
       CREATE TABLE OrderDetails

    ○ (OrderDetailID INTEGER AUTO INCREMENT PRIMARY KEY,
7
В
       OrderID INTEGER, ProductID INT, Quantity INTEGER NOT NULL,
       Subtotal DECIMAL(10,2) NOT NULL,
9
       FOREIGN KEY (OrderID) REFERENCES Orders(OrderID));
1
2 .
       SELECT * FROM OrderDetails;
                                           Edit: 🕍 🐯 Export/Import: 📳 📸 | Wrap Cell Content: 🔣
ault Grid | | National Printer Rows:
                                            Subtotal
OrderDetailID
              OrderID
                       ProductID
                                  Quantity
                                           2599.00
              1
                       3
                                  1
             2
                       9
2
                                  1
                                            1599.00
3
              2
                       28
                                           178.00
                                  1
4
             2
                       45
                                           199.00
5
              2
                       42
                                  1
                                           69.00
6
             3
                       19
                                           1399.00
                                  1
7
              3
                       33
                                  1
                                            199.00
8
             3
                       34
                                  1
                                           349.00
9
              4
                                           22599.00
                       1
                                  1
10
              5
                       2
                                  1
                                           74999.00
11
              6
                                           1399.00
                                  1
```

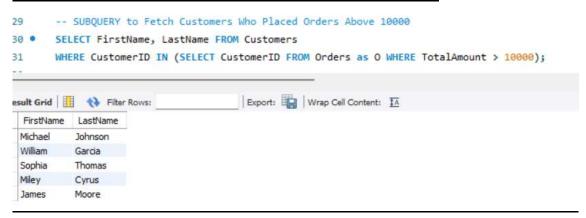
# **Using JOIN CLAUSE:**



#### Creating a VIEW:



## SUBQUERY to Fetch Customers Who Placed Orders Above Rs.10,000:



# STORED PROCEDURE to get first highest order amount across all customers:

```
-- STORED PROCEDURE to get highest order amount across all customers
13
4
      DELIMITER $$
      CREATE PROCEDURE HighestAmount()
5 .
6 G BEGIN
17
          SELECT C.FirstName, C.LastName, C.Email, C.Phone, O.TotalAmount AS Max_Amt
18
          FROM Orders AS O
          INNER JOIN Customers AS C ON O.CustomerID = C.CustomerID
9
0
          ORDER BY O. Total Amount DESC
11
          LIMIT 1;
12
     - END $$
3
      DELIMITER ;
14
CALL HighestAmount();
sult Grid | Filter Rows:
                                   Export: Wrap Cell Content: IA
 FirstName LastName Email
                                          Phone
William
          Garcia
                   william.garcia@example.com 8677889900 74999.00
```

# STORED PROCEDURE to get second highest order amount across all customers:

```
-- STORED PROCEDURE to get second highest order amount across all customers
     DELIMITER $$
    CREATE PROCEDURE SecondHighestAmount()
⊕ BEGIN
         SELECT C.FirstName, C.LastName, C.Email, C.Phone, O.TotalAmount AS Max_Amt
         FROM Orders AS O
2
        INNER JOIN Customers AS C ON O.CustomerID = C.CustomerID
3
1
         ORDER BY O. Total Amount DESC
         LIMIT 1 OFFSET 1;
    END $$
5
7
     DELIMITER ;
CALL SecondHighestAmount();
ult Grid Filter Rows:
                                 Export: Wrap Cell Content: TA
                                          Phone
FirstName LastName Email
                                                     Max_Amt
Michael
         Johnson michael.johnson@example.com 8233445566
                                                     25999.00
```