ASSIGNMENT

TechShop

1) SQL Schema

```
CREATE DATABASE TechShop;
use TechShop;
CREATE TABLE Customers (
   CustomerID INT PRIMARY KEY IDENTITY(1,1),
   FirstName VARCHAR(50) NOT NULL,
   LastName VARCHAR(50) NOT NULL,
    Email VARCHAR(100) NOT NULL,
   Phone VARCHAR(20),
   Address VARCHAR(255)
);
CREATE TABLE Products (
   ProductID INT PRIMARY KEY IDENTITY(10,1),
    ProductName VARCHAR(100) NOT NULL,
   Description VARCHAR(MAX),
   Price DECIMAL(10, 2) NOT NULL
);
CREATE TABLE Orders (
   OrderID INT PRIMARY KEY IDENTITY(100,1),
   CustomerID INT FOREIGN KEY REFERENCES Customers(CustomerID),
   OrderDate DATE NOT NULL,
   TotalAmount DECIMAL(10, 2) NOT NULL
);
CREATE TABLE OrderDetails (
   OrderDetailID INT PRIMARY KEY IDENTITY(150,1),
   OrderID INT FOREIGN KEY REFERENCES Orders(OrderID),
   ProductID INT FOREIGN KEY REFERENCES Products(ProductID),
   Quantity INT
);
CREATE TABLE Inventory (
    InventoryID INT PRIMARY KEY IDENTITY(300,1),
    ProductID INT FOREIGN KEY REFERENCES Products(ProductID),
   QuantityInStock INT NOT NULL,
   LastStockUpdate DATE NOT NULL
);
```

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Task: Assignment Topic: TechShop

2) Menu:

MENU

- 1. Customer Registration
- Product Catalog Management
- 3. Orders
- 4. Order Status
- 5. Inventory Management
- 6. Sales Report
- 7. Customer Account Update
- 8. Payment Processing
- 9. Search and Recommend a Product
- 10. Exit

Enter your Choice:

3) Customer Registration:

MENU

- 1. Customer Registration
- 2. Product Catalog Management
- 3. Orders
- 4. Order Status
- 5. Inventory Management
- 6. Sales Report
- 7. Customer Account Update
- 8. Payment Processing
- 9. Search and Recommend a Product
- 10. Exit

Enter your Choice: 1

Enter your first name: Ayush Enter your last name: Sharma

Enter your email: ayush@gmail.com Enter your phone number: 5678901234

Enter your address: 66-A,Sudama Nagar,Indore

Customer created successfully.

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4) Product Catalog Management:

• Update Product Details (Price, Description, Product Name, Category):

```
1. Update Product Details
2. Show All Products
3. Search for product in stock
4. Exit
Enter your Choice: 1
Enter product ID: 10
What do you want to Update?
1)Price
2)Description
3)Product Name
4)Category
Enter Choice (eg; Price): Price
Enter Updated Price: 150000
Product information updated successfully
```

Show All Productd:

```
1. Update Product Details
2. Show All Products
3. Search for product in stock
4. Exit
Enter your Choice: 2
Product details:
(10, 'iPhone 14 Pro', '6.1-inch Super Retina XDR display, A16 Bionic chip, 12MP dual camera system', Decimal('150000.00'), 'Smartphones')
(11, 'Samsung Galaxy S23 Ultra', '6.8-inch Dynamic AMOLED 2X display, Snapdragon 8 Gen 2, 200MP camera', Decimal('131998.90'), 'Smartphones')
(12, 'OnePlus 11', '6.7-inch Fluid AMOLED display, Snapdragon 8 Gen 2, 50MP camera', Decimal('65998.90'), 'Smartphones')
(13, 'Xiaomi 13 Pro', '6.7-inch Fluid AMOLED display, Snapdragon 8 Gen 2, 50MP camera', Decimal('76998.90'), 'Smartphones')
(14, 'Google Pixel 7 Pro', '6.7-inch LTPO OLED display, Google Tensor G2, 50MP camera', Decimal('164998.90'), 'Smartphones')
(15, 'MacBook Pro M2', '13.3-inch Liquid Retina XDR display, M2 chip, 8GB RAM, 256GB SSD', Decimal('164998.90'), 'Laptops')
(16, 'Dell XPS 13', '13.4-inch InfinityEdge display, Intel Core i7-13600H, 16GB RAM, 512GB SSD', Decimal('142998.90'), 'Laptops')
(17, 'Lenovo ThinkPad X1 Carbon', '14-inch OLED display, Intel Core i7-13600H, 16GB RAM, 512GB SSD', Decimal('142998.90'), 'Laptops')
(18, 'HP Spectre X360', '13.3-inch AMOLED display, Intel Core i7-13600H, 16GB RAM, 512GB SSD', Decimal('142998.90'), 'Laptops')
(19, 'Acer Predator Helios 16', '16-inch IPS display, Intel Core i9-13900HX, 32GB RAM, 2TB SSD', Decimal('142998.90'), 'Laptops')
(20, 'Smartwatch X200', 'A high-end smartwatch with various health tracking features and a sleek design.', Decimal('21998.90'), 'Smartwatches')
```

Search for product in stock:

```
    Update Product Details
    Show All Products
    Search for product in stock
    Exit
    Enter your Choice: 3
    Enter product ID: 15
    Product in stock: 12
```

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5) Orders:

• Create Order:

```
1. Create Order
2. Get Order Details
3. Cancel Order
4. Delete Orders which are Cancelled
5. Exit
Enter your Choice: 1
Enter Customer ID: 4
Enter product ID: 13
Enter quantity: 2
Order Created Successfully
```

• Get Order Details:

```
Enter your Choice: 2
Enter Customer ID: 4
You've ordered 2 times, below are those order details:
Order Detail ID: 153
Order ID: 103
Product ID: 13
Quantity: 1
Order Date: 2023-11-15
Status: Delivered
Total Order Price: 76998.90
Order Detail ID: 163
Order ID: 113
Product ID: 13
Quantity: 2
Order Date: 2024-10-12
Status: Pending
Total Order Price: 153997.80
```

Cancel Order:

Enter Customer ID: 4 You've ordered 2 times, below are those order details: Order Detail ID: 153 Order ID: 103 Product ID: 13 Quantity: 1 Order Date: 2023-11-15 Status: Delivered Total Order Price: 76998.90 Order Detail ID: 163 Order ID: 113 Product ID: 13 Quantity: 2 Order Date: 2024-10-12 Status: Pending Total Order Price: 153997.80 Write an OrderID you want to Cancel: 103 Order Cancelled...

• Delete Orders which are Cancelled:

- 1. Create Order
- 2. Get Order Details
- 3. Cancel Order
- 4. Delete Orders which are Cancelled
- 5. Exit

Enter your Choice: 4

Cancelled Orders Deleted!

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6) Order Status:

• Display Order Status:

Enter your Choice: 4
Enter Order ID: 100

- 1. Display Order Status
- 2. Change Order Status
- 3. Exit

Enter your Choice: 1

Your order status: Shipped

• Change Order Status:

- 1. Display Order Status
- 2. Change Order Status
- 3. Exit

Enter your Choice: 2

Enter Status (Shipped/Pending/Delivered/Cancelled): Delivered Status Updated

- 1. Display Order Status
- 2. Change Order Status
- 3. Exit

Enter your Choice: 1

Your order status: Delivered

7) Inventory Management:

Add a New Product:

```
Enter your Choice: 5
1. Add New Product
2. Update Product Stock
3. Remove Discontinued Product
4. Exit
Enter your Choice: 1
Enter Product Name: Iphone 16 Pro-Max
Enter Product Description: The all new Apple Iphone 16 with some new features.
Enter Product Price: 175000
Enter Product Category: Smartphones
Enter Quantity in Stock: 5
Product Added Succesfully
```

• Update Product Stock:

1. Add New Product 2. Update Product Stock 3. Remove Discontinued Product 4. Exit Enter your Choice: 2 Enter Product ID: 21 Enter Quantity to be Added: 10

Quantity in Stock: 5

Quantity Updated for Product ID 21: 15

• Remove Discontinued Product:

- 1. Add New Product
- 2. Update Product Stock
- Remove Discontinued Product
- 4. Exit

Enter your Choice: 3

Enter Product you want to Discontinue (Product ID): 21 Removed Items Successfully!!

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8) Sales Report:

• Retrieve Sales Data:

```
Enter your Choice: 6

1. Retrieve Sales Data
2. Generate Sales Report
3. Exit
Enter your Choice: 1
Sales Report:
Product ID | Product Name | Total Quantity Sold
10 | iPhone 14 Pro | 1
11 | Samsung Galaxy S23 Ultra | 1
12 | OnePlus 11 | 1
13 | Xiaomi 13 Pro | 2
16 | Dell XPS 13 | 1
19 | Acer Predator Helios 16 | 2
```

• Generate Sales Report:

```
1. Retrieve Sales Data
2. Generate Sales Report
3. Exit
Enter your Choice: 2
Sales Report:
Product ID | Product Name | Total Quantity Sold
10 | iPhone 14 Pro | 1
11 | Samsung Galaxy S23 Ultra | 1
12 | OnePlus 11 | 1
13 | Xiaomi 13 Pro | 2
16 | Dell XPS 13 | 1
19 | Acer Predator Helios 16 | 2
```

9) Customer Account Update:

• Update Customer Details:

1. Update Customer Details 2. Get Customer Details 3. Exit Enter your Choice: 1 Enter Customer ID: 13 What do you want to Update? 1)First Name 2)Last Name 3)Email 4)Phone Number 5)Address 6)Want to Update All Details Enter Choice: 4

Enter New Phone Number: 7778889990

• Get Customer Details:

Update Customer Details
 Get Customer Details

Customer Details Updated!

3. Exit

Enter your Choice: 2
Enter Customer ID: 13

Customer ID: 13
First Name: Ayush
Last Name: Sharma

Email: ayush@gmail.com

Phone: 7778889990

Address: 66-A,Sudama Nagar,Indore

10) Payment Processing:

• Process Payment:

```
Enter your Choice: 8

1. Process Payment
2. Add Discount
3. Exit
Enter your Choice:1
Enter Order ID: 102
OrderID | ProductID | Quantity | TotalAmount

102 | 12 | 1 | 65998.90
```

• Add Discount:

- Process Payment
- 2. Add Discount
- 3. Exit

Enter your Choice:2 Enter Order ID: 102

Total Amount: Rs. 65998.9

Discount of 10 percent will be added...
Total Amount: Rs. 59399.00999999999

11) Search and Recommend a Product:

Search Product:

```
Enter your Choice: 9

1. Search Product
2. Recommend Product
3. Exit
Enter your Choice: 1
Enter a Product ID: 15
Product Found!

Product ID: 15
Product Name: MacBook Pro M2
Product Description: 13.3-inch Liquid Retina XDR display, M2 chip, 8GB RAM, 256GB SSD
Product Category: Laptops
```

• Recommend Product:

Enter your Choice: 9

1. Search Product
2. Recommend Product
3. Exit
Enter your Choice: 2
Enter a Product Category: Smartphones
Here are the Recommeded Products:

iPhone 14 Pro
Samsung Galaxy S23 Ultra
OnePlus 11
Xiaomi 13 Pro
Google Pixel 7 Pro