HEXAWARE PHASE-2 FOUNDATION TRAINING ASSIGNMENT-1

TASK-1: DATABASE DESIGN

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1. Create the Database
CREATE DATABASE TechShop;
USE TechShop;
2. Create Tables
CREATE TABLE Customers (
 CustomerID INT PRIMARY KEY IDENTITY(1,1),
 FirstName VARCHAR(50),
 LastName VARCHAR(50),
 Email VARCHAR(100) UNIQUE,
 Phone VARCHAR(15),
 Address VARCHAR(255)
);
CREATE TABLE Products (
 ProductID INT PRIMARY KEY IDENTITY(1,1),
 ProductName VARCHAR(100),
 Description NVARCHAR(MAX),
 Price DECIMAL(10,2)
);
CREATE TABLE Orders (
 OrderID INT PRIMARY KEY IDENTITY(1,1),
 CustomerID INT,
 OrderDate DATE,
 TotalAmount DECIMAL(10,2),
 FOREIGN KEY (CustomerID) REFERENCES Customers(CustomerID) ON DELETE
CASCADE
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);
CREATE TABLE OrderDetails (
  OrderDetailID INT PRIMARY KEY IDENTITY(1,1),
  OrderID INT,
  ProductID INT,
  Quantity INT,
  FOREIGN KEY (OrderID) REFERENCES Orders(OrderID) ON DELETE CASCADE,
  FOREIGN KEY (ProductID) REFERENCES Products(ProductID) ON DELETE CASCADE
);
CREATE TABLE Inventory (
  InventoryID INT PRIMARY KEY IDENTITY(1,1),
  ProductID INT,
  QuantityInStock INT,
  LastStockUpdate DATE,
  FOREIGN KEY (ProductID) REFERENCES Products(ProductID) ON DELETE CASCADE
);
5. Insert Sample Data
--Customers Table
INSERT INTO Customers (FirstName, LastName, Email, Phone, Address)
VALUES
('Nilaa', 'John', 'nilajohn@gmail.com', '9329482340', '12 MG Road, Chennai'),
('Varun', 'Kumar', 'varunkumar@gmail.com', '9836482292', '45 Anna Nagar, Coimbatore'),
('Teena', 'Thomas', 'teenathomas@gmail.com', '8956789012', '78 Gandhi Road, Madurai'),
('Riyaa', 'Agarwal', 'riyaaagarwal@gmail.com', '8867890123', '56 Raja Street, Trichy'),
('Karthik', 'Dev', 'karthikdev@gmail.com', '7678901234', '34 Kaveri Street, Salem'),
('Manoj', 'Reddy', 'manojreddy@gmail.com', '9876543210', '21 Besant Nagar, Chennai'),
('Meera', 'Suresh', 'meerasuresh@gmail.com', '9012345678', '67 T. Nagar, Chennai'),
('Ajay', 'Menon', 'ajaymenon@gmail.com', '9876765432', '101 Vyttila, Kochi'),
('Vikram', 'Pillai', 'vikrampillai@gmail.com', '8765432198', '33 MG Road, Bangalore'),
('Divya', 'Shankar', 'divyashankar@gmail.com', '7890123456', '90 Rajaji Nagar, Hyderabad');
-- Products Table
INSERT INTO Products (ProductName, Description, Price)
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VALUES
('Smartphone', 'Latest 5G smartphone with OLED display', 29999),
('Laptop', 'Powerful laptop with 16GB RAM and SSD', 65999),
('Tablet', '10-inch tablet with stylus support', 24999),
('Wireless Earbuds', 'Noise-canceling Bluetooth earbuds', 4999),
('Smartwatch', 'Water-resistant smartwatch with heart rate monitor', 7999),
('Bluetooth Speaker', 'Portable speaker with deep bass', 2999),
('Gaming Mouse', 'Ergonomic gaming mouse with RGB lights', 1999),
('Mechanical Keyboard', 'Mechanical keyboard with red switches', 4999),
('Power Bank', '20000mAh fast-charging power bank', 2499),
('USB-C Charger', '65W fast-charging adapter', 1999);
--Orders Table
INSERT INTO Orders (CustomerID, OrderDate, TotalAmount)
VALUES
(1, '2025-03-01', 29999),
(2, '2025-03-02', 65999),
(3, '2025-03-03', 24999),
(4, '2025-03-04', 7999),
(5, '2025-03-05', 1999),
(6, '2025-03-06', 4999),
(7, '2025-03-07', 2999),
(8, '2025-03-08', 2499),
(9, '2025-03-09', 1999),
(10, '2025-03-10', 4999);
--OrderDetails Table
INSERT INTO OrderDetails (OrderID, ProductID, Quantity)
VALUES
(1, 1, 1),
(2, 2, 1),
(3, 3, 1),
(4, 5, 1),
(5, 7, 1),
(6, 4, 1),
(7, 6, 1),
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(8, 9, 1),
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(9, 10, 1),

(10, 8, 1);

--Inventory Table

INSERT INTO Inventory (ProductID, QuantityInStock, LastStockUpdate)

VALUES

- (1, 50, '2025-02-25'),
- (2, 30, '2025-02-24'),
- (3, 40, '2025-02-23'),
- (4, 100, '2025-02-22'),
- (5, 60, '2025-02-21'),
- (6, 80, '2025-02-20'),
- (7, 90, '2025-02-19'),
- (8, 70, '2025-02-18'),
- (9, 85, '2025-02-17'),
- (10, 95, '2025-02-16');

3. Entity Relationship Diagram

