Foundation Technical Training

Assignment No. 1 - SQL - Electronic Gadgets - Task 1

Name: Niranjan Kolpe, Batch: C#-Batch 2

Task 1. Database Design

- 1. Create the database named "TechShop".
- 2. Define the schema for the Customers, Products, Orders, OrderDetails and Inventory tables based on the provided schema.
- 3. Create an ERD (Entity Relationship Diagram) for the database.
- 4. Create appropriate Primary Key and Foreign Key constraints for referential integrity.
- 5. Insert at least 10 sample records into each of the following tables.
 - a. Customers
 - b. Products
 - c. Orders
 - d. Order Details
 - e. Inventory

Program Code in SQL:

```
-- Niranjan Kolpe - C# Batch-2

-- SQL - Assignment 1 - Electronic Gadgets

USE master;

CREATE DATABASE NiranjanDB;

USE NiranjanDB;

CREATE TABLE Customers (CustomerID INT PRIMARY KEY, FirstName TEXT NOT NULL, LastName TEXT, Email VARCHAR(50), Phone DECIMAL NOT NULL, Address VARCHAR(100));

INSERT INTO Customers VALUES (1, 'Niranjan', 'Kolpe', 'niranjan@gmail.com', 9999999991, 'San Fransisco');

INSERT INTO Customers VALUES (2, 'Steve', 'Rogers', 'steve@gmail.com', 9999999999, 'Brooklyn');

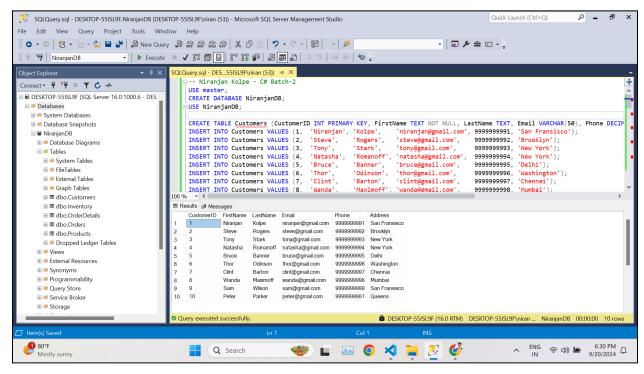
INSERT INTO Customers VALUES (3, 'Tony', 'Stark', 'tony@gmail.com', 9999999993, 'New York');
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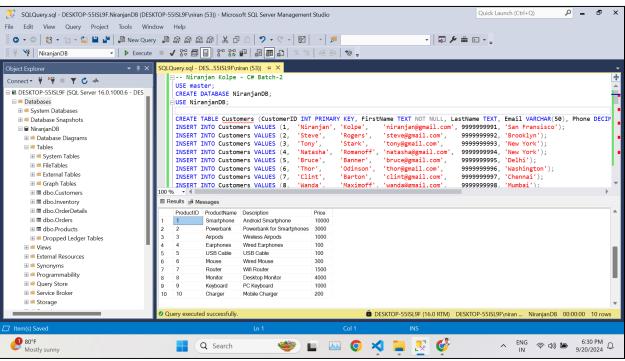
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INSERT INTO Customers VALUES (4, 'Natasha', 'Romanoff', 'natasha@gmail.com',
999999994, 'New York');
INSERT INTO Customers VALUES (5, 'Bruce', 'Banner', 'bruce@gmail.com',
9999999995, 'Delhi');
INSERT INTO Customers VALUES (6, 'Thor', 'Odinson', 'thor@gmail.com',
999999996, 'Washington');
INSERT INTO Customers VALUES (7, 'Clint', 'Barton', 'clint@gmail.com',
999999997, 'Chennai');
INSERT INTO Customers VALUES (8, 'Wanda', 'Maximoff', 'wanda@gmail.com',
999999998, 'Mumbai');
INSERT INTO Customers VALUES (9, 'Sam',
                                             'Wilson', 'sam@gmail.com',
999999999, 'San Fransisco');
INSERT INTO Customers VALUES (10, 'Peter', 'Parker', 'peter@gmail.com',
999999981, 'Queens');
SELECT * FROM Customers;
CREATE TABLE Products (ProductID INT PRIMARY KEY, ProductName TEXT NOT NULL,
Description VARCHAR(100), Price INT NOT NULL);
       INTO Products VALUES (1, 'Smartphone', 'Android Smartphone',
INSERT
10000);
INSERT INTO Products VALUES (2, 'Powerbank', 'Powerbank for Smartphones',
3000);
      INTO Products VALUES (3, 'Airpods', 'Wireless Airpods',
INSERT
1000);
INSERT INTO Products VALUES (4, 'Earphones', 'Wired Earphones',
                                                                    100);
INSERT INTO Products VALUES (5, 'USB Cable', 'USB Cable',
                                                                    100);
INSERT INTO Products VALUES (6, 'Mouse', 'Wired Mouse',
                                                                    300);
INSERT
      INTO Products VALUES (7, 'Router',
                                                          'Wifi Router',
1500);
```

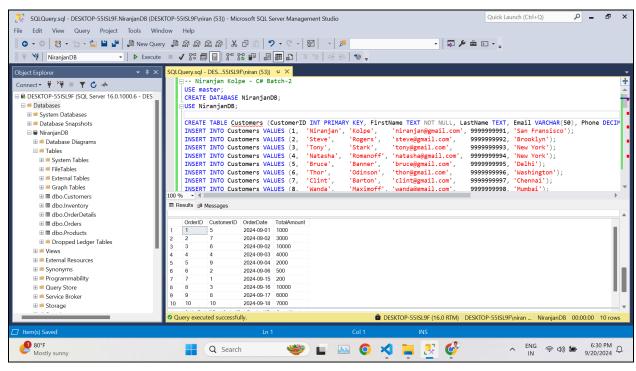
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INTO Products VALUES (8, 'Monitor', 'Desktop Monitor',
INSERT
4000);
INSERT
        INTO
               Products VALUES
                                  (9, 'Keyboard', 'PC Keyboard',
1000);
INSERT INTO Products VALUES (10, 'Charger', 'Mobile Charger',
                                                                        200);
SELECT * FROM Products;
CREATE TABLE Orders (OrderID INT PRIMARY KEY, CustomerID INT FOREIGN KEY
REFERENCES Customers(CustomerID), OrderDate DATE, TotalAmount INT);
INSERT INTO Orders VALUES (1, 5, '2024-09-01', 1000);
INSERT INTO Orders VALUES (2, 7, '2024-09-02', 3000);
INSERT INTO Orders VALUES (3, 6, '2024-09-02', 10000);
INSERT INTO Orders VALUES (4, 4, '2024-09-03', 4000);
INSERT INTO Orders VALUES (5, 9, '2024-09-04', 2000);
INSERT INTO Orders VALUES (6, 2, '2024-09-06', 500);
INSERT INTO Orders VALUES (7, 1, '2024-09-15', 200);
INSERT INTO Orders VALUES (8, 3, '2024-09-16', 10000);
INSERT INTO Orders VALUES (9, 8, '2024-09-17', 6000);
INSERT INTO Orders VALUES (10, 10, '2024-09-18', 7000);
SELECT * FROM Orders;
CREATE TABLE OrderDetails (OrderDetailID INT PRIMARY KEY, OrderID INT FOREIGN KEY
REFERENCES Orders(OrderID),
                                        ProductID INT FOREIGN KEY REFERENCES
Products(ProductID), Quantity INT);
INSERT INTO OrderDetails VALUES (1, 1, 3,
                                          1);
INSERT INTO OrderDetails VALUES (2, 2, 2,
                                          1);
INSERT INTO OrderDetails VALUES (3, 3, 1, 1);
```

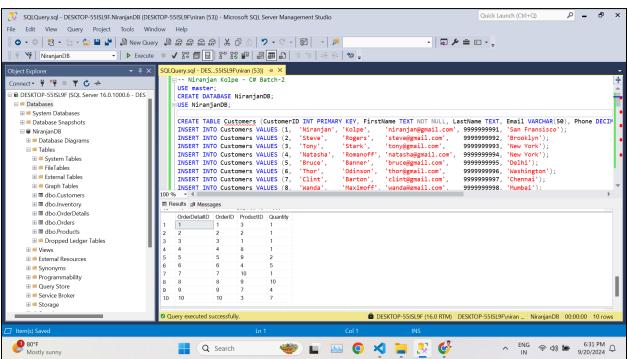
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INSERT INTO OrderDetails VALUES (4, 4, 8, 1);
INSERT INTO OrderDetails VALUES (5, 5, 9, 2);
INSERT INTO OrderDetails VALUES (6, 6, 4, 5);
INSERT INTO OrderDetails VALUES (7, 7, 10, 1);
INSERT INTO OrderDetails VALUES (8, 8, 9, 10);
INSERT INTO OrderDetails VALUES (9, 9, 7, 4);
INSERT INTO OrderDetails VALUES (10, 10, 3, 7);
SELECT * FROM OrderDetails;
CREATE TABLE Inventory (InventoryID INT PRIMARY KEY, ProductID INT FOREIGN KEY
REFERENCES Products(ProductID), QuantityInStock INT, LastStockUpdate DATETIME);
INSERT INTO Inventory VALUES (1, 1, 23, '2024-09-19');
INSERT INTO Inventory VALUES (2, 2, 26, '2024-09-19');
INSERT INTO Inventory VALUES (3, 3, 63, '2024-09-19');
INSERT INTO Inventory VALUES (4, 4, 52, '2024-09-19');
INSERT INTO Inventory VALUES (5, 5, 92, '2024-09-19');
INSERT INTO Inventory VALUES (6, 6, 12, '2024-09-19');
INSERT INTO Inventory VALUES (7, 7, 38, '2024-09-19');
INSERT INTO Inventory VALUES (8, 8, 84, '2024-09-20');
INSERT INTO Inventory VALUES (9, 9, 97, '2024-09-20');
INSERT INTO Inventory VALUES (10, 10, 14, '2024-09-20');
SELECT * FROM Inventory;
```

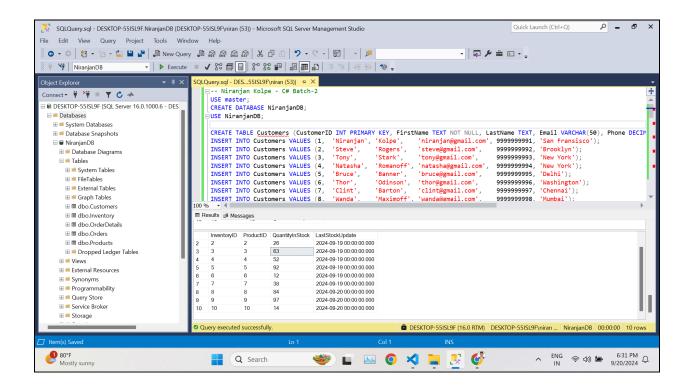
Output:











Entity Relationship Diagram (ERD):

