```
-- Create database
CREATE DATABASE RetailDB:
-- Use the database
USE RetailDB;
-- Table to store product information
CREATE TABLE Products (
  ProductID INT AUTO_INCREMENT PRIMARY KEY,
  ProductName VARCHAR(255) NOT NULL,
  Description TEXT,
  Price DECIMAL(10, 2) NOT NULL,
  StockQuantity INT NOT NULL
);
-- Table to store customer information
CREATE TABLE Customers (
  CustomerID INT AUTO_INCREMENT PRIMARY KEY,
  FirstName VARCHAR(50) NOT NULL,
  LastName VARCHAR(50) NOT NULL,
  Email VARCHAR(100) UNIQUE NOT NULL,
  PhoneNumber VARCHAR(20),
  Address TEXT NOT NULL,
  RegistrationDate DATE NOT NULL
);
-- Table to store order information
CREATE TABLE Orders (
  OrderID INT AUTO_INCREMENT PRIMARY KEY,
  CustomerID INT,
```

```
OrderDate DATE NOT NULL,
  TotalAmount DECIMAL(10, 2) NOT NULL,
  FOREIGN KEY (CustomerID) REFERENCES Customers(CustomerID)
);
-- Table to store order items
CREATE TABLE OrderItems (
  OrderItemID INT AUTO_INCREMENT PRIMARY KEY,
  OrderID INT,
  ProductID INT,
  Quantity INT NOT NULL,
  Price DECIMAL(10, 2) NOT NULL,
  FOREIGN KEY (OrderID) REFERENCES Orders(OrderID),
  FOREIGN KEY (ProductID) REFERENCES Products(ProductID)
);
-- Example Inserts into Products table
INSERT INTO Products (ProductName, Description, Price, StockQuantity) VALUES
('Laptop', '15-inch laptop with 8GB RAM', 999.99, 10),
('Smartphone', 'Latest model smartphone', 699.99, 20),
('Wireless Mouse', 'Ergonomic wireless mouse', 29.99, 50),
('Keyboard', 'Mechanical keyboard', 89.99, 30);
-- Example Inserts into Customers table
INSERT INTO Customers (FirstName, LastName, Email, PhoneNumber, Address,
RegistrationDate) VALUES
('John', 'Doe', 'john.doe@example.com', '555-1234', '123 Elm Street, Springfield', '2024-01-15'),
('Jane', 'Smith', 'jane.smith@example.com', '555-5678', '456 Oak Avenue, Springfield', '2024-02-
20'),
('Alice', 'Johnson', 'alice.johnson@example.com', '555-8765', '789 Pine Road, Springfield',
'2024-03-10');
```

-- Example Inserts into Orders table

INSERT INTO Orders (CustomerID, OrderDate, TotalAmount) VALUES

- (1, '2024-08-10', 1029.98), -- John Doe
- (2, '2024-08-11', 729.98), -- Jane Smith
- (3, '2024-08-12', 119.98); -- Alice Johnson
- -- Example Inserts into OrderItems table

INSERT INTO OrderItems (OrderID, ProductID, Quantity, Price) VALUES

(1, 1, 1, 999.99), -- Laptop

(1, 3, 1, 29.99), -- Wireless Mouse

(2, 2, 1, 699.99), -- Smartphone

(3, 4, 1, 89.99); -- Keyboard

INSERT INTO Products (ProductName, Description, Price, StockQuantity)

VALUES ('Tablet', '10-inch tablet with 64GB storage', 399.99, 25);

INSERT INTO Customers (FirstName, LastName, Email, PhoneNumber, Address, RegistrationDate)

VALUES ('Michael', 'Brown', 'michael.brown@example.com', '555-4321', '101 Maple Street, Springfield', '2024-04-01');

-- Insert order

INSERT INTO Orders (CustomerID, OrderDate, TotalAmount)

VALUES (4, '2024-08-13', 489.97);

-- Insert order items

INSERT INTO OrderItems (OrderID, ProductID, Quantity, Price)

VALUES (4, 1, 1, 999.99), -- Laptop

(4, 3, 1, 29.99); -- Wireless Mouse

-- Insert order

INSERT INTO Orders (CustomerID, OrderDate, TotalAmount)

VALUES (4, '2024-08-13', 489.97);

-- Insert order items

INSERT INTO OrderItems (OrderID, ProductID, Quantity, Price)

VALUES (4, 1, 1, 999.99), -- Laptop

(4, 3, 1, 29.99); -- Wireless Mouse

SELECT * FROM Products;

SELECT * FROM Customers;

SELECT o.OrderID, c.FirstName, c.LastName, o.OrderDate, o.TotalAmount

FROM Orders o

JOIN Customers c ON o.CustomerID = c.CustomerID;

SELECT o.OrderID, o.OrderDate, oi.ProductID, p.ProductName, oi.Quantity, oi.Price

FROM Orders o

JOIN OrderItems oi ON o.OrderID = oi.OrderID

JOIN Products p ON oi.ProductID = p.ProductID

WHERE o.CustomerID = 1; -- For customer with ID 1