**SQL Script**

**--Create the database--**

Create DATABASE OnlineStore

**-- Customers Table--**

create TABLE Customers (

CustomerID INT PRIMARY KEY,

FirstName VARCHAR(50),

LastName VARCHAR(50),

Email VARCHAR(100),

Phone VARCHAR(20),

Address TEXT

);

**-- Product Table--**

Create TABLE Product (

ProductID INT PRIMARY KEY,

ProductName VARCHAR(100),

Category VARCHAR(50),

Price DECIMAL(10,2),

Manufacturer VARCHAR(100)

);

**-- Inventory Table--**

Create TABLE Inventory (

ProductID INT PRIMARY KEY,

Inventory INT,

Location VARCHAR(100),

FOREIGN KEY (ProductID) REFERENCES Product(ProductID)

);

-**- Orders Table**

Create TABLE Orders (

OrderID INT PRIMARY KEY,

OrderDate DATE,

CustomerID INT,

ProductID INT,

Quantity INT,

UnitPrice DECIMAL(10,2),

TotalPrice DECIMAL(10,2),

FOREIGN KEY (CustomerID) REFERENCES Customers(CustomerID),

FOREIGN KEY (ProductID) REFERENCES Product(ProductID)

);

**-- Reviews Table**

Create TABLE Reviews (

ReviewID INT PRIMARY KEY,

ProductID INT,

CustomerID INT,

Rating INT CHECK (Rating >= 1 AND Rating <= 5),

Comment TEXT,

FOREIGN KEY (ProductID) REFERENCES Product(ProductID),

FOREIGN KEY (CustomerID) REFERENCES Customers(CustomerID)

);

**-- Insert sample data**

**-- Customers**

INSERT INTO Customers VALUES

(1, 'Aarav', 'Patel', 'aarav.patel@example.com', '647-111-2233', '11 Lotus Ave'),

(2, 'Mei', 'Wang', 'mei.wang@example.com', '647-222-3344', '22 Bamboo Rd'),

(3, 'Ravi', 'Kumar', 'ravi.kumar@example.com', '647-333-4455', '33 Neem St'),

(4, 'Ananya', 'Sharma', 'ananya.sharma@example.com', '647-444-5566', '44 Jasmine Ln'),

(5, 'Hiro', 'Tanaka', 'hiro.tanaka@example.com', '647-555-6677', '55 Sakura Dr');

**-- Products--**

**INSERT INTO Product VALUES**

(10001, 'Samsung Galaxy A54', 'Electronics', 449.99, 'Samsung'),

(10002, 'Levis Slim Fit Jeans', 'Clothing', 59.99, 'Levis'),

(10003, 'kindle', 'Books', 21.50, 'Penguin'),

(10004, 'Apple iPhone 15', 'Electronics', 1099.99, 'Apple'),

(10005, 'Nike Air Max', 'Clothing', 129.99, 'Nike');

**-- Inventory--**

**INSERT INTO Inventory VALUES**

(10001, 25, 'Warehouse A'),

(10002, 60, 'Warehouse B'),

(10003, 80, 'Warehouse C'),

(10004, 10, 'Warehouse A'),

(10005, 40, 'Warehouse B');

**-- Orders--**

**INSERT INTO Orders VALUES**

(5001, '2025-06-01', 1, 10001, 1, 449.99, 449.99),

(5002, '2025-06-02', 2, 10003, 2, 21.50, 43.00),

(5003, '2025-06-03', 3, 10002, 2, 59.99, 119.98),

(5004, '2025-06-04', 4, 10004, 1, 1099.99, 1099.99),

(5005, '2025-06-05', 5, 10005, 1, 129.99, 129.99);

**-- Reviews--**

**INSERT INTO Reviews VALUES**

(301, 10001, 1, 5, 'Very smooth and fast.'),

(302, 10003, 2, 4, 'Great book for building habits.'),

(303, 10002, 3, 3, 'Fits well but fabric is average.'),

(304, 10004, 4, 5, 'iPhone is always the best!'),

(305, 10005, 5, 4, 'Stylish and comfy.');

**-- queries--**

**--3.1.a--**

select \* from Orders join Customers on Customers.CustomerID = Orders.CustomerID;

**--3.1.b--**

select \* from Product left join Reviews on Product.ProductID=Reviews.ProductID

where Reviews.ProductID is null;

**--3.2.a--**

select Product.ProductID, Product.ProductName,Product.Category, Product.Price, Avg(Reviews.Rating) as average\_rating,

count(Reviews.ReviewID)as Review\_Count from Product left join Reviews on Product.ProductID= Reviews.ProductID

group by Product.ProductID, Product.ProductName,Product.Category, Product.Price;

**--3.2.b--**

select Customers.CustomerID, Customers.FirstName, Customers.LastName,

Sum(Orders.TotalPrice) as Total\_spending,

count (Orders.OrderID) as Orders\_count from Customers

left join Orders on Customers.CustomerID=Orders.CustomerID

group by Customers.CustomerID, Customers.FirstName, Customers.LastName;