**Set the environment**

CREATE DATABASE salesdb;

USE salesdb;

CREATE TABLE Customers (

CustomerID INT PRIMARY KEY,

FirstName VARCHAR(50),

LastName VARCHAR(50),

Email VARCHAR(100),

PhoneNumber VARCHAR(20),

Address VARCHAR(100),

City VARCHAR(50),

State VARCHAR(50),

ZipCode VARCHAR(10),

Country VARCHAR(50),

SignUpDate DATE

);

INSERT INTO Customers VALUES

(1, 'John', 'Doe', 'john.doe@example.com', '123-456-7890', '123 Elm St', 'Springfield', 'IL', '62701', 'USA', '2023-01-15'),

(2, 'Jane', 'Smith', 'jane.smith@example.com', '234-567-8901', '456 Oak St', 'Chicago', 'IL', '60601', 'USA', '2023-02-20'),

(3, 'Alice', 'Johnson', 'alice.johnson@example.com', '345-678-9012', '789 Pine St', 'Houston', 'TX', '77001', 'USA', '2023-03-10');

CREATE TABLE Products (

ProductID INT PRIMARY KEY,

ProductName VARCHAR(100),

Category VARCHAR(50),

Price DECIMAL(10, 2),

StockQuantity INT,

SupplierID INT

);

INSERT INTO Products VALUES

(1, 'Laptop', 'Electronics', 999.99, 50, 1),

(2, 'Smartphone', 'Electronics', 599.99, 200, 2),

(3, 'Tablet', 'Electronics', 399.99, 150, 1);

CREATE TABLE Orders (

OrderID INT PRIMARY KEY,

CustomerID INT,

OrderDate DATE,

TotalAmount DECIMAL(10, 2),

FOREIGN KEY (CustomerID) REFERENCES Customers(CustomerID)

);

INSERT INTO Orders VALUES

(1, 1, '2023-03-15', 1599.98),

(2, 2, '2023-04-10', 599.99),

(3, 3, '2023-05-05', 999.99);

CREATE TABLE OrderDetails (

OrderDetailID INT PRIMARY KEY,

OrderID INT,

ProductID INT,

Quantity INT,

UnitPrice DECIMAL(10, 2),

TotalPrice DECIMAL(10, 2),

FOREIGN KEY (OrderID) REFERENCES Orders(OrderID),

FOREIGN KEY (ProductID) REFERENCES Products(ProductID)

);

INSERT INTO OrderDetails VALUES

(1, 1, 1, 1, 999.99, 999.99),

(2, 1, 2, 1, 599.99, 599.99),

(3, 2, 2, 1, 599.99, 599.99),

(4, 3, 1, 1, 999.99, 999.99);

CREATE TABLE Reviews (

ReviewID INT PRIMARY KEY,

CustomerID INT,

ProductID INT,

Rating INT,

ReviewDate DATE,

Comments TEXT,

FOREIGN KEY (CustomerID) REFERENCES Customers(CustomerID),

FOREIGN KEY (ProductID) REFERENCES Products(ProductID)

);

INSERT INTO Reviews VALUES

(1, 1, 1, 5, '2023-03-20', 'Great laptop!'),

(2, 2, 2, 4, '2023-04-15', 'Good smartphone, but battery life could be better.'),

(3, 3, 1, 5, '2023-05-10', 'Excellent performance!');

**-- 1. Find all orders placed on '2023-04-10'.**

**-- 2. Find the total quantity of each product sold.**

**-- 3. List the names of customers who have placed an order with a total amount greater than $1000.**

**-- 4. Get the average rating for each product.**

**-- 5. Find the most recent order date for each customer.**

**-- 6.Find the top 2 products with the highest total sales amount.**

**-- 7. Get the average rating for products in each category.**

**-- 8. Find the customer who spent the most money on orders.**

**-- 9. Find the name and email of the customer who placed the highest value order. (use subquery)**

**-- 10. Retrieve the order details (including product name and quantity) for order ID 1.**