SUPERSET ID-6363144

CURSORS:-

EXERCISES CODE:-

IF OBJECT\_ID('OrderDetails', 'U') IS NOT NULL DROP TABLE OrderDetails;

IF OBJECT\_ID('Orders', 'U') IS NOT NULL DROP TABLE Orders;

IF OBJECT\_ID('Products', 'U') IS NOT NULL DROP TABLE Products;

IF OBJECT\_ID('Customers', 'U') IS NOT NULL DROP TABLE Customers;

GO

CREATE TABLE Customers (

CustomerID INT PRIMARY KEY,

Name VARCHAR(100),

Region VARCHAR(50)

);

GO

CREATE TABLE Products (

ProductID INT PRIMARY KEY,

ProductName VARCHAR(100),

Category VARCHAR(50),

Price DECIMAL(10,2)

);

GO

CREATE TABLE Orders (

OrderID INT PRIMARY KEY,

CustomerID INT,

OrderDate DATE,

FOREIGN KEY (CustomerID) REFERENCES Customers(CustomerID)

);

GO

CREATE TABLE OrderDetails (

OrderDetailID INT PRIMARY KEY,

OrderID INT,

ProductID INT,

Quantity INT,

FOREIGN KEY (OrderID) REFERENCES Orders(OrderID),

FOREIGN KEY (ProductID) REFERENCES Products(ProductID)

);

GO

INSERT INTO Customers VALUES

(1, 'Alice', 'North'),

(2, 'Bob', 'South'),

(3, 'Charlie', 'East');

GO

INSERT INTO Products VALUES

(1, 'Laptop', 'Electronics', 1200.00),

(2, 'Smartphone', 'Electronics', 900.00),

(3, 'T-Shirt', 'Clothing', 25.00);

GO

INSERT INTO Orders VALUES

(1, 1, '2025-01-05'),

(2, 2, '2025-01-10'),

(3, 1, '2025-02-01'),

(4, 3, '2025-02-15');

GO

INSERT INTO OrderDetails VALUES

(1, 1, 1, 1),

(2, 1, 2, 2),

(3, 2, 3, 3),

(4, 3, 2, 1),

(5, 4, 1, 2);

GO

DECLARE @CustomerID INT;

DECLARE @CustomerName VARCHAR(100);

DECLARE @OrderCount INT;

DECLARE @TotalQuantity INT;

DECLARE customer\_cursor CURSOR FOR

SELECT CustomerID, Name FROM Customers;

OPEN customer\_cursor;

FETCH NEXT FROM customer\_cursor INTO @CustomerID, @CustomerName;

WHILE @@FETCH\_STATUS = 0

BEGIN

SELECT

@OrderCount = COUNT(DISTINCT o.OrderID),

@TotalQuantity = ISNULL(SUM(od.Quantity), 0)

FROM Orders o

LEFT JOIN OrderDetails od ON o.OrderID = od.OrderID

WHERE o.CustomerID = @CustomerID;

PRINT 'Customer: ' + @CustomerName +

' | Orders: ' + CAST(@OrderCount AS VARCHAR) +

' | Total Quantity: ' + CAST(@TotalQuantity AS VARCHAR);

FETCH NEXT FROM customer\_cursor INTO @CustomerID, @CustomerName;

END

CLOSE customer\_cursor;

DEALLOCATE customer\_cursor;

GO

