**Name – Aaditya M. Patil**

**PRN – 12210643**

**Roll No – 58**

**DBMS ASSIGNMENT - 4**

**Script\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

-- Create a new database

CREATE DATABASE IF NOT EXISTS sales\_database;

-- Use the created database

USE sales\_database;

-- Create Customers table

CREATE TABLE Customers (

    CustomerID INT PRIMARY KEY,

    CustomerName VARCHAR(50),

    City VARCHAR(50)

);

-- Insert sample data into Customers table

INSERT INTO Customers (CustomerID, CustomerName, City)

VALUES

    (1, 'Alice', 'New York'),

    (2, 'Bob', 'Los Angeles'),

    (3, 'Charlie', 'Chicago'),

    (4, 'David', 'Houston'),

    (6, 'F', 'Houston'),

    (7, 'G', 'New York');

-- Create Orders table

CREATE TABLE Orders (

    OrderID INT PRIMARY KEY,

    CustomerID INT,

    OrderDate DATE,

    TotalAmount DECIMAL(10, 2)

);

-- Insert sample data into Orders table

INSERT INTO Orders (OrderID, CustomerID, OrderDate, TotalAmount)

VALUES

    (101, 1, '2023-08-01', 150.00),

    (102, 2, '2023-08-02', 200.00),

    (103, 1, '2023-08-03', 75.00),

    (104, 3, '2023-08-04', 300.00),

    (105, 4, '2023-08-05', 50.00),

    (106, 5, '2023-08-05', 60.00),

    (107, 6, '2023-08-05', 80.00),

    (108, 6, '2023-08-05', 120.00);

-- Inner join

SELECT \*

FROM Customers

INNER JOIN Orders ON Customers.CustomerID = Orders.CustomerID;

-- Left join

SELECT Customers.CustomerName, Orders.OrderDate

FROM Customers

LEFT JOIN Orders ON Customers.CustomerID = Orders.CustomerID;

-- Right join

SELECT Customers.CustomerName, Orders.OrderDate

FROM Customers

RIGHT JOIN Orders ON Customers.CustomerID = Orders.CustomerID;

-- Full outer join (MySQL doesn't support FULL OUTER JOIN directly, so we simulate it with a UNION of LEFT and RIGHT JOINs)

SELECT Customers.CustomerName, Orders.OrderDate

FROM Customers

LEFT JOIN Orders ON Customers.CustomerID = Orders.CustomerID

UNION

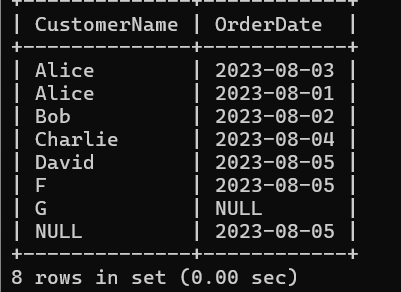
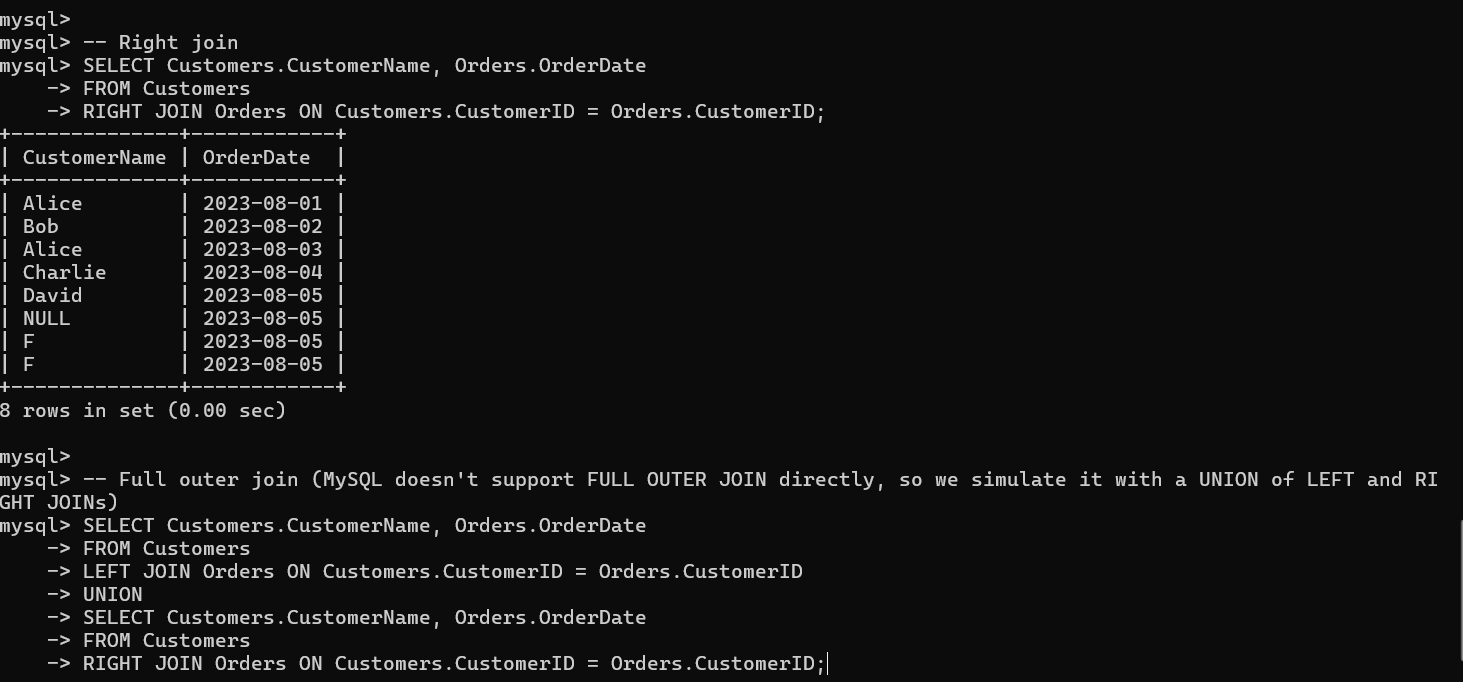
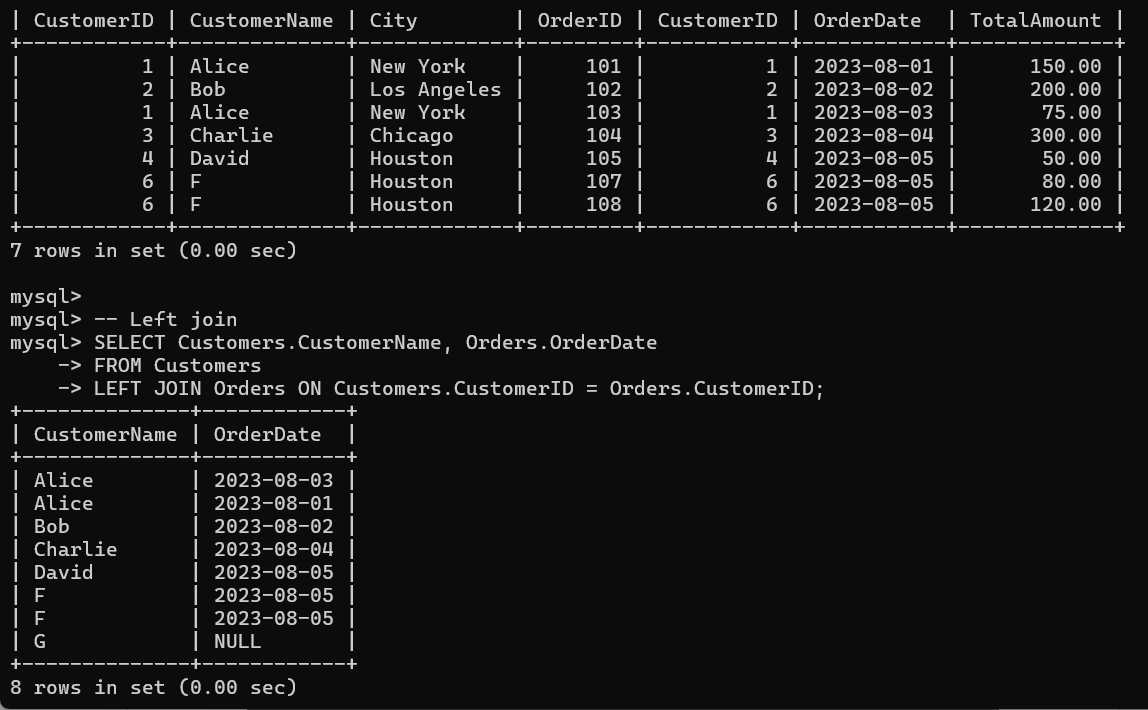
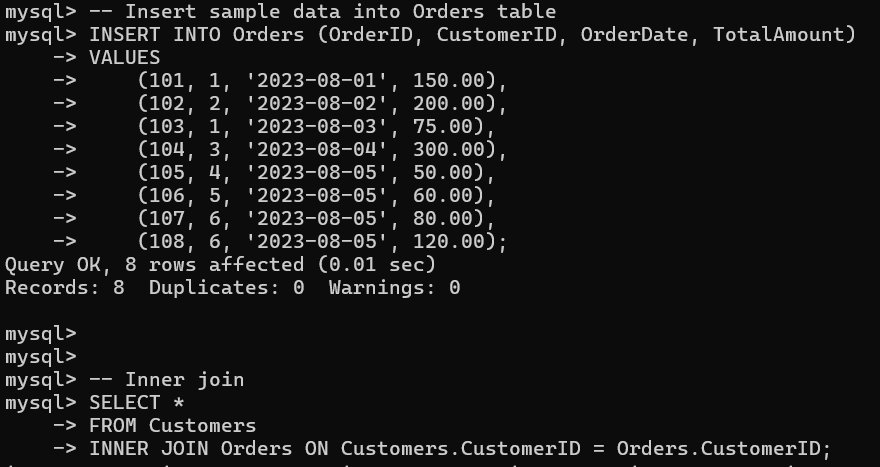
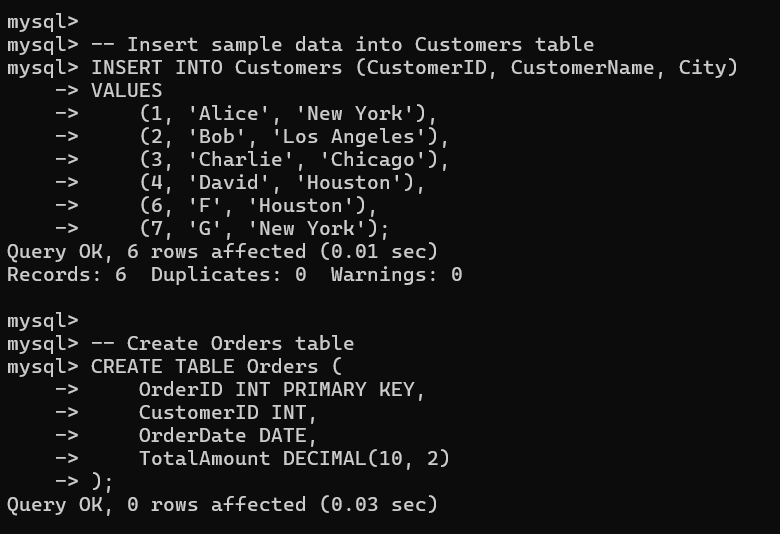
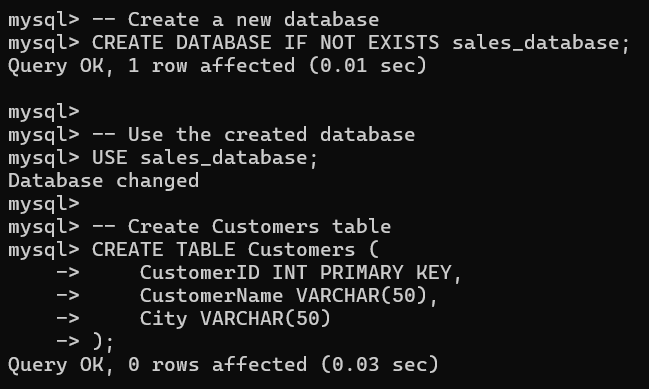
SELECT Customers.CustomerName, Orders.OrderDate

FROM Customers

RIGHT JOIN Orders ON Customers.CustomerID = Orders.CustomerID;

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**CONSOLE LOGS (OUTPUT):**

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