Task 5

SQL Joins (Inner, Left, Right, Full)

Objective: Learn to combine data from multiple tables

Tools: DB Browser for SQLite / MySQL

Workbench Deliverables: SQL queries using all join types

```
Create Customers table
CREATE TABLE Customers (
  CustomerID INT PRIMARY KEY,
  CustomerName VARCHAR(50),
  Country VARCHAR(50)
);
-- Create Orders table
CREATE TABLE Orders (
  OrderID INT PRIMARY KEY,
  CustomerID INT,
  Product VARCHAR(50),
  FOREIGN KEY (CustomerID) REFERENCES Customers(CustomerID)
);
INSERT INTO Customers (CustomerID, CustomerName, Country) VALUES
(1, 'Alice', 'USA'),
(2, 'Bob', 'UK'),(3, 'Charlie', 'Canada'),(4, 'David', 'USA');
```

: CustomerID	CustomerName	Country
1	Alice	USA
2	Bob	UK
3	Charlie	Canada
4	David	USA

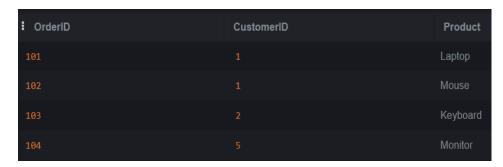
INSERT INTO Orders (OrderID, CustomerID, Product) VALUES

(101, 1, 'Laptop'),

(102, 1, 'Mouse'),

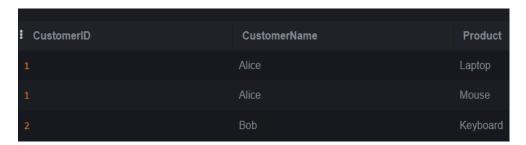
(103, 2, 'Keyboard'),

(104, 5, 'Monitor');



INNER JOIN

SELECT Customers.CustomerID, Customers.CustomerName, Orders.Product FROM Customers INNER JOIN Orders ON Customers.CustomerID = Orders.CustomerID;



LEFT JOIN

SELECT Customers.CustomerID, Customers.CustomerName, Orders.Product FROM Customers

LEFT JOIN Orders

ON Customers.CustomerID = Orders.CustomerID;

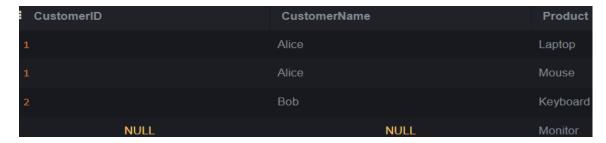


RIGHT JOIN

SELECT Customers.CustomerID, Customers.CustomerName, Orders.Product FROM Customers

RIGHT JOIN Orders

ON Customers.CustomerID = Orders.CustomerID;



FULL JOIN

SELECT Customers.CustomerID, Customers.CustomerName, Orders.Product FROM Customers

FULL OUTER JOIN Orders

ON Customers.CustomerID = Orders.CustomerID;

