Task 5

Create table customers:

```
CREATE TABLE Customers (
CustomerID INT PRIMARY KEY,
CustomerName VARCHAR(50),
City VARCHAR(50),
Email VARCHAR(100),
Phone VARCHAR(15)
);
```

Create table Orders:

```
CREATE TABLE Orders (
OrderID INT PRIMARY KEY,
OrderDate DATE,
ProductName VARCHAR(50),
Quantity INT,
Price DECIMAL(10,2),
CustomerID INT,
FOREIGN KEY (CustomerID) REFERENCES Customers(CustomerID)
);
```

```
INSERT INTO Customers (CustomerID, CustomerName, City, Email, Phone) VALUES
(1, 'Yashvi Gondaliya', 'Surat', 'y@example.com', '9876543210'),
(2, 'Bansi Lathiya', 'Ahmedabad', 'b@example.com', '9123456780'),
(3, 'Neha Sharma', 'Vadodara', 'neha@example.com', '9988776655'),
(4, 'Sneha Joshi', 'Rajkot', 'sneha@example.com', '9090909090'),
(5, 'New Customer', 'Mumbai', 'new@example.com', '9012345678');
```

Select * from Customers;

	CustomerID	CustomerName	City	Email	Phone
1	1	Yashvi Gondaliya	Surat	y@example.com	9876543210
2	2	Bansi Lathiya	Ahmedabad	b@example.com	9123456780
3	3	Neha Sharma	Vadodara	neha@example.com	9988776655
4	4	Sneha Joshi	Rajkot	sneha@example.com	9090909090
5	5	New Customer	Mumbai	new@example.com	9012345678

INSERT INTO Orders (OrderID, OrderDate, ProductName, Quantity, Price, CustomerID)
VALUES

(101, '2025-08-01', 'Laptop', 1, 55000.00, 1),

(102, '2025-08-02', 'Smartphone', 2, 20000.00, 2),

(103, '2025-08-03', 'Headphones', 3, 1500.00, 3),

(104, '2025-08-04', 'Tablet', 1, 18000.00, 4),

(105, '2025-08-05', 'Smartwatch', 2, 5000.00, 5);

Select * from Orders;

	OrderID	OrderDate	ProductName	Quantity	Price	CustomerID
1	101	2025-08-01	Laptop	1	55000	1
2	102	2025-08-02	Smartphone	2	20000	2
3	103	2025-08-03	Headphones	3	1500	3
4	104	2025-08-04	Tablet	1	18000	4
5	105	2025-08-05	Smartwatch	2	5000	5

JOIN:

INNER JOIN====

SELECT c.CustomerID, c.CustomerName, o.OrderID, o.ProductName, o.Quantity, o.Price

FROM Customers c

INNER JOIN Orders o

ON c.CustomerID = o.CustomerID;

Output:

	CustomerID	CustomerName	OrderID	ProductName	Quantity	Price
1	1	Yashvi Gondaliya	101	Laptop	1	55000
2	2	Bansi Lathiya	102	Smartphone	2	20000
3	3	Neha Sharma	103	Headphones	3	1500
4	4	Sneha Joshi	104	Tablet	1	18000
5	5	New Customer	105	Smartwatch	2	5000

LEFT JOIN====

```
SELECT c.CustomerID, c.CustomerName, o.OrderID, o.ProductName
FROM Customers c
LEFT JOIN Orders o
ON c.CustomerID = o.CustomerID;
```

Output:

	CustomerID	CustomerName	OrderID	ProductName
1	1	Yashvi Gondaliya	101	Laptop
2	2	Bansi Lathiya	102	Smartphone
3	3	Neha Sharma	103	Headphones
4	4	Sneha Joshi	104	Tablet
5	5	New Customer	105	Smartwatch

RIGHT JOIN====

```
SELECT c.CustomerID, c.CustomerName, o.OrderID, o.ProductName
FROM Customers c
RIGHT JOIN Orders o
ON c.CustomerID = o.CustomerID;
```

Output:

	CustomerID	CustomerName	OrderID	ProductName
1	1	Yashvi Gondaliya	101	Laptop
2	2	Bansi Lathiya	102	Smartphone
3	3	Neha Sharma	103	Headphones
4	4	Sneha Joshi	104	Tablet
5	5	New Customer	105	Smartwatch

FULL JOIN====

```
SELECT c.CustomerID, c.CustomerName, o.OrderID, o.ProductName, o.Quantity, o.Price
FROM Customers c
LEFT JOIN Orders o ON c.CustomerID = o.CustomerID

UNION

SELECT c.CustomerID, c.CustomerName, o.OrderID, o.ProductName, o.Quantity, o.Price
FROM Customers c
RIGHT JOIN Orders o ON c.CustomerID = o.CustomerID;
```

Output:

	CustomerID	CustomerName	OrderID	ProductName	Quantity	Price
1	1	Yashvi Gondaliya	101	Laptop	1	55000
2	2	Bansi Lathiya	102	Smartphone	2	20000
3	3	Neha Sharma	103	Headphones	3	1500
4	4	Sneha Joshi	104	Tablet	1	18000
5	5	New Customer	105	Smartwatch	2	5000