

Assignment 2 :- Craft a query using an INNER JOIN to combine 'orders' and 'customers' tables for customers in a specified region, and a LEFT JOIN to display all customers including those without orders.

Queries :-

```
create database Services;  
use Services;
```

```
-- Create the customers table
```

```
CREATE TABLE customers (  
    customer_id INT PRIMARY KEY,  
    customer_name VARCHAR(100),  
    email VARCHAR(100),  
    city VARCHAR(50),  
    region VARCHAR(50)  
);
```

```
-- Insert 10 rows of data
```

```
INSERT INTO customers (customer_id, customer_name, email, city,  
region) VALUES  
(1, 'John Doe', 'john.doe@example.com', 'New York','Northeast'),  
(2, 'Jane Smith', 'jane.smith@example.com', 'Los Angeles','west'),  
(3, 'Robert Brown', 'robert.brown@example.com', 'Chicago','Midwest'),  
(4, 'Emily Davis', 'emily.davis@example.com', 'Houston','South'),  
(5, 'Michael Wilson', 'michael.wilson@example.com', 'Phoenix','West'),  
(6, 'Sarah Johnson', 'sarah.johnson@example.com',  
'Philadelphia','Northeast'),  
(7, 'David Lee', 'david.lee@example.com', 'San Antonio','South'),  
(8, 'Laura Martin', 'laura.martin@example.com', 'San Diego','West'),  
(9, 'James White', 'james.white@example.com', 'Dallas','South'),  
(10, 'Linda Harris', 'linda.harris@example.com', 'San Jose','West');
```

```
Select * from customers;
```

Result Grid					
Filter Rows:					
Edit:		Export/Import:			
Wrap Cell Content:					
customer_id	customer_name	email	city	region	
1	John Doe	john.doe@example.com	New York	Northeast	
2	Jane Smith	jane.smith@example.com	Los Angeles	west	
3	Robert Brown	robert.brown@example.com	Chicago	Midwest	
4	Emily Davis	emily.davis@example.com	Houston	South	
5	Michael Wilson	michael.wilson@example.com	Phoenix	West	
customer_id	customer_name	email	city	region	
6	Sarah Johnson	sarah.johnson@example.com	Philadelphia	Northeast	
7	David Lee	david.lee@example.com	San Antonio	South	
8	Laura Martin	laura.martin@example.com	San Diego	West	
9	James White	james.white@example.com	Dallas	South	
10	Linda Harris	linda.harris@example.com	San Jose	West	
NULL	NULL	NULL	NULL	NULL	

-- Create the orders table

```
CREATE TABLE orders (
  order_id INT PRIMARY KEY,
  customer_id INT,
  order_date DATE,
  order_amount DECIMAL(10, 2),
  FOREIGN KEY (customer_id) REFERENCES customers(customer_id)
);
```

-- Insert 10 rows of data into the orders table

```
INSERT INTO orders (order_id, customer_id, order_date, order_amount)
VALUES
(1, 1, '2024-01-15', 150.00),
(2, 2, '2024-02-20', 200.00),
(3, 1, '2024-03-25', 300.00),
(4, 3, '2024-04-05', 120.00),
(5, 5, '2024-05-10', 450.00),
(6, 6, '2024-06-15', 250.00),
(7, 4, '2024-07-20', 350.00),
(8, 8, '2024-08-25', 400.00),
(9, 1, '2024-09-30', 500.00),
(10, 7, '2024-10-05', 220.00);
```

Select * from orders;

Result Grid				
Filter Rows:				
Edit:		Export/Import:		
Wrap Cell Content:				
	order_id	customer_id	order_date	order_amount
▶	1	1	2024-01-15	150.00
	2	2	2024-02-20	200.00
	3	1	2024-03-25	300.00
	4	3	2024-04-05	120.00
	5	5	2024-05-10	450.00
	6	6	2024-06-15	250.00
	order_id	customer_id	order_date	order_amount
	7	4	2024-07-20	350.00
	8	8	2024-08-25	400.00
	9	1	2024-09-30	500.00
	10	7	2024-10-05	220.00
*	NULL	NULL	NULL	NULL

-- INNER JOIN

SELECT

c.customer_id,
 c.customer_name,
 c.email,
 c.city,
 c.region,
 o.order_id,
 o.order_date,
 o.order_amount

FROM customers c INNER JOIN orders o ON c.customer_id = o.customer_id WHERE c.region = 'West';

Result Grid								
Filter Rows:								
Export:		Wrap Cell Content:						
	customer_id	customer_name	email	city	region	order_id	order_date	order_amount
▶	2	Jane Smith	jane.smith@example.com	Los Angeles	west	2	2024-02-20	200.00
	5	Michael Wilson	michael.wilson@example.com	Phoenix	West	5	2024-05-10	450.00
	8	Laura Martin	laura.martin@example.com	San Diego	West	8	2024-08-25	400.00

-- LEFT JOIN

SELECT

c.customer_id,

```
c.customer_name,  
c.email,  
c.city,  
c.region,  
o.order_id,  
o.order_date,  
o.order_amount  
FROM customers c LEFT JOIN orders o ON c.customer_id =  
o.customer_id WHERE c.region = 'West';
```

	customer_id	customer_name	email	city	region	order_id	order_date	order_amount
▶	2	Jane Smith	jane.smith@example.com	Los Angeles	west	2	2024-02-20	200.00
	5	Michael Wilson	michael.wilson@example.com	Phoenix	West	5	2024-05-10	450.00
	8	Laura Martin	laura.martin@example.com	San Diego	West	8	2024-08-25	400.00
	10	Linda Harris	linda.harris@example.com	San Jose	West	NULL	NULL	NULL