**ASSIGNMENT 5 : 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.**

The SQL query combining orders and customers tables using INNER JOIN and LEFT JOIN:

SQL

SELECT c.customer\_name, c.email\_address, o.order\_id (optional)

FROM customers c

LEFT JOIN orders o ON c.customer\_id = o.customer\_id

WHERE c.region = 'YourRegionHere';

**Explanation:**

1. **SELECT Clause:**
   * c.customer\_name, c.email\_address: Selects desired columns from the customers table (customer name and email address).
   * o.order\_id (optional): Includes the order\_id from the orders table. You can remove this if you're not interested in order details.
2. **FROM Clause:**
   * customers c: Specifies the main table (customers) and assigns it an alias c for readability.
3. **JOIN Clauses:**
   * **LEFT JOIN:**
     + orders o ON c.customer\_id = o.customer\_id: This joins the orders table (o) to the customers table (c) based on the condition that the customer\_id in both tables must match.
     + LEFT JOIN ensures all customers from the customers table are included, even if they don't have any orders in the orders table. Rows with no matching orders in orders will have NULL values for order\_id.
   * **INNER JOIN (Optional):**
     + You can replace LEFT JOIN with INNER JOIN if you only want to see customers with corresponding orders. This will exclude customers without orders from the results.
4. **WHERE Clause:**
   * c.region = 'YourRegionHere': Filters the results to include only customers from the specified region. Replace 'YourRegionHere' with the actual region you're interested in.

This query provides customer names, email addresses, and optionally order IDs for customers in the specified region. It includes all customers even if they haven't placed any orders.