

*Assignment 4: 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.*

```
SELECT C.CUSTOMER_ID, C.CUSTOMER_NAME, C.EMAIL, O.ORDER_ID, O.ORDER_DATE
FROM CUSTOMERS C
INNER JOIN ORDERS O ON C.CUSTOMER_ID = O.CUSTOMER_ID
WHERE C.REGION = 'SPECIFIEDREGION';
```

THIS QUERY USES ALIASES C FOR THE CUSTOMERS TABLE AND O FOR THE ORDERS TABLE TO COMBINE THE INFORMATION FOR CUSTOMERS IN THE SPECIFIED REGION. REPLACE 'SPECIFIEDREGION' WITH THE ACTUAL REGION NAME YOU ARE INTERESTED IN, SUCH AS "NORTH":

```
-----
SELECT C.CUSTOMER_ID, C.CUSTOMER_NAME, C.EMAIL, O.ORDER_ID, O.ORDER_DATE
FROM CUSTOMERS C
INNER JOIN ORDERS O ON C.CUSTOMER_ID = O.CUSTOMER_ID
WHERE C.REGION = 'NORTH';
-----
```

2. LEFT JOIN TO DISPLAY ALL CUSTOMERS INCLUDING THOSE WITHOUT ORDERS

HERE'S THE QUERY USING A **LEFT JOIN** TO INCLUDE ALL CUSTOMERS, EVEN THOSE WITHOUT ORDERS:

-

```
SELECT C.CUSTOMER_ID, C.CUSTOMER_NAME, C.EMAIL, O.ORDER_ID, O.ORDER_DATE
FROM CUSTOMERS C
LEFT JOIN ORDERS O ON C.CUSTOMER_ID = O.CUSTOMER_ID;
```

THIS QUERY WILL RETURN ALL CUSTOMERS AND, IF THERE ARE NO CORRESPONDING ORDERS, THE ORDER_ID AND ORDER_DATE FIELDS WILL CONTAIN **NULL** VALUES.

PUTTING BOTH QUERIES TOGETHER FOR CUSTOMERS IN A SPECIFIED REGION AND ALL CUSTOMERS:

```
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```

A. INNER JOIN FOR CUSTOMERS IN A SPECIFIED REGION

```
SELECT C.CUSTOMER_ID, C.CUSTOMER_NAME, C.EMAIL, O.ORDER_ID, O.ORDER_DATE  
FROM CUSTOMERS C  
INNER JOIN ORDERS O ON C.CUSTOMER_ID = O.CUSTOMER_ID  
WHERE C.REGION = 'NORTH';
```

B. LEFT JOIN FOR ALL CUSTOMERS INCLUDING THOSE WITHOUT ORDERS

```
SELECT C.CUSTOMER_ID, C.CUSTOMER_NAME, C.EMAIL, O.ORDER_ID, O.ORDER_DATE  
FROM CUSTOMERS C  
LEFT JOIN ORDERS O ON C.CUSTOMER_ID = O.CUSTOMER_ID;
```

THESE QUERIES WILL PROVIDE THE REQUIRED DATA BASED ON THE SPECIFIED JOIN
CONDITIONS.