

SQL Practice - Day-19 - 20250211

Problem Statement:

For each customer who placed an order in 2024, determine the first and last order date within the year. Output customer_id, first_order_date, and last_order_date.

Table: ORDERS

ORDER_ID (int)

CUSTOMER_ID (int)

ORDER_DATE (date)

Constraints:

If a customer has only one order in 2024, first_order_date and last_order_date should be the same.

Exclude customers who haven't placed any orders in 2024.

** QUERY:

```
WITH ORDERED AS(
SELECT *,
ROW_NUMBER() OVER (PARTITION BY CUSTOMER_ID ORDER BY ORDER_DATE) AS
ASC_ORDER,
ROW_NUMBER() OVER (PARTITION BY CUSTOMER_ID ORDER BY ORDER_DATE DESC)
AS DESC_ORDER
FROM ORDERS
WHERE YEAR(ORDER_DATE) = 2024
)
SELECT CUSTOMER_ID,
       MAX(CASE WHEN ASC_ORDER = 1 THEN ORDER_DATE END) AS
FIRST_ORDER_DATE,
       MAX(CASE WHEN DESC_ORDER = 1 THEN ORDER_DATE END) AS
LAST_ORDER_DATE
FROM ORDERED
GROUP BY CUSTOMER_ID;
```