Question:

Given a table ORDERS with the following columns:

- ORDER_ID (INT) – Unique identifier for each order
- CUSTOMER_ID (INT) – ID of the customer who placed the order
- ORDER_DATE (DATE) – The date the order was placed
- ORDER_AMOUNT (DECIMAL) – Total amount of the order

Write a query to find **customers whose total order amount in any single month of 2024 is greater than twice their average monthly order amount for 2024**.

**** QUERY:**

```
WITH MONTHLY_AMT AS(
SELECT CUSTOMER_ID, MONTH(ORDER_DATE) AS MONTH, SUM(ORDER_AMOUNT) AS MONTHLY_TOTAL
FROM ORDERS
WHERE YEAR(ORDER_DATE) = 2024
GROUP BY 1,2
)
, AVG_MONTH AS(
SELECT *,
AVG(MONTHLY_TOTAL) OVER(PARTITION BY CUSTOMER_ID) AS AVG_AMT_MONTH
FROM MONTHLY_AMT
)
SELECT DISTINCT CUSTOMER_ID AS CUSTOMER_ID
FROM AVG_MONTH
WHERE MONTHLY_TOTAL > (2*AVG_AMT_MONTH)
;
```