Executing multiple queries using TEMP TABLES and CTE

A stakeholder is investigating the idea of incentivizing customers who have spent a lot in a single transaction.

Role: I am a **data analyst** and must solve this problem using SQL

Currently working on SQL Workbench which has grocery_db database.

For this, they will need data showing each customer's largest transaction in terms of dollars spent.

As our transaction data is at *product_id* level, to get this data, we will need to aggregate twice, once to the *transaction_id* level, and then again to find out the maximum amount spent per transaction, per customer.

Use either temporary tables or CTE to get this information.

Your query should return one row per customer, showing their maximum transaction spend. To make it easy for the stakeholder, please make sure the output is sorted by *customer_id*.

Your output will have two columns:

- customer_id
- max_transaction_sales (you will create this)

Explanation of the Approach

1. **First Aggregation**

   o Since the data is at the product_id level, we **sum** the sales_amount at the transaction_id level for each customer.

2. **Second Aggregation**

   o From this aggregated data, we find the **maximum transaction amount** per customer.

3. **Final Output**

   o We retrieve the customer's highest transaction value and sort it by customer_id.

Both methods will return one row per customer with the highest transaction amount.