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Ad Hoc Analysis Long Test Approach

- 1. Identify the goals or end results
 - a. Breakdown of count of each item sold per month
 - b. Breakdown of total sale value per item per month
 - c. Data Representation of Repeater, Inactive, and Engaged Customers

2. Observation of Provided Data

a. Columns provided data for the customers' address, birthdate, mail, name, sex, username, transaction item, transaction value, and transaction date

3. Solution for Goal a and b

- a. Filter the information by taking only the needed data such as transaction items, transaction values, and quantity while also disregarding the information that's not needed.
- b. Reorganize the data by splitting up the transaction items string, defining the required variables for representation such as quantity, transaction value, transaction months and transaction sales properly.
- c. Create pivot tables representing the quantity of transaction items sold per transaction month in order to provide what is asked in Goal a and the total sales of the transaction items per transaction month for Goal b.

4. Solution for Goal c

- a. Set the transaction dates as transaction months for better representation
- b. Create pivot table displaying the customer names and their corresponding transaction month
- c. Utilize lambda functions to create formulas defining customers who are considered as repeaters, inactive, and engaged and display the amount of each type of customer per transaction month