

AdHoc Analysis

- Load the json file as dataframe
- remove ";" from transactions with multiple items for the data to be used easily
- Find price for items bought alone
- Make a database for all the products bought alone in a transaction
- Make a list of all the products in the dataframe
- Find the total number of sales made per month
 - Make a dataframe out of this
 - Find the total sales value per product per month using the dataframe
 - This gives a dataframe with both total sales value and total products sold
 - Make a function that will view only the total sales value per month per product without editing the original dataframe
 - Make a function that will view only the total products sold per month per product without editing the original dataframe
- Graph the two new dataframes in separate graphs

Separate notebook for 2nd requirement to maximize naming features and avoid unwanted edits on existing dataframes

- Load json file as dataframe
- Make a function to find the month
- Make a function that will show number of transactions of each customer
- Remove duplicate data as necessary
- Remove transactions that are 0 for a certain month
- Check data per month to prepare for types of customer activities
- Find the number of repeater customers
- Find the number of inactive customers
- Find the number of engaged customers
- Make final dataframe to show types of customer activities per month
- Graph using the final dataframe