

Take Home Test (Ebere Chinelo Oyekwe)

The data set is Transaction information of 10 stores for a period of 3 Months.

Data dictionary:

Month: Month of Transaction

StoreCode: Store Identifier

Day: Day of Transaction

Bill_ID: Invoice Number

Bill_Amt: Amount on Invoice

Qty: Number of Items on Invoice

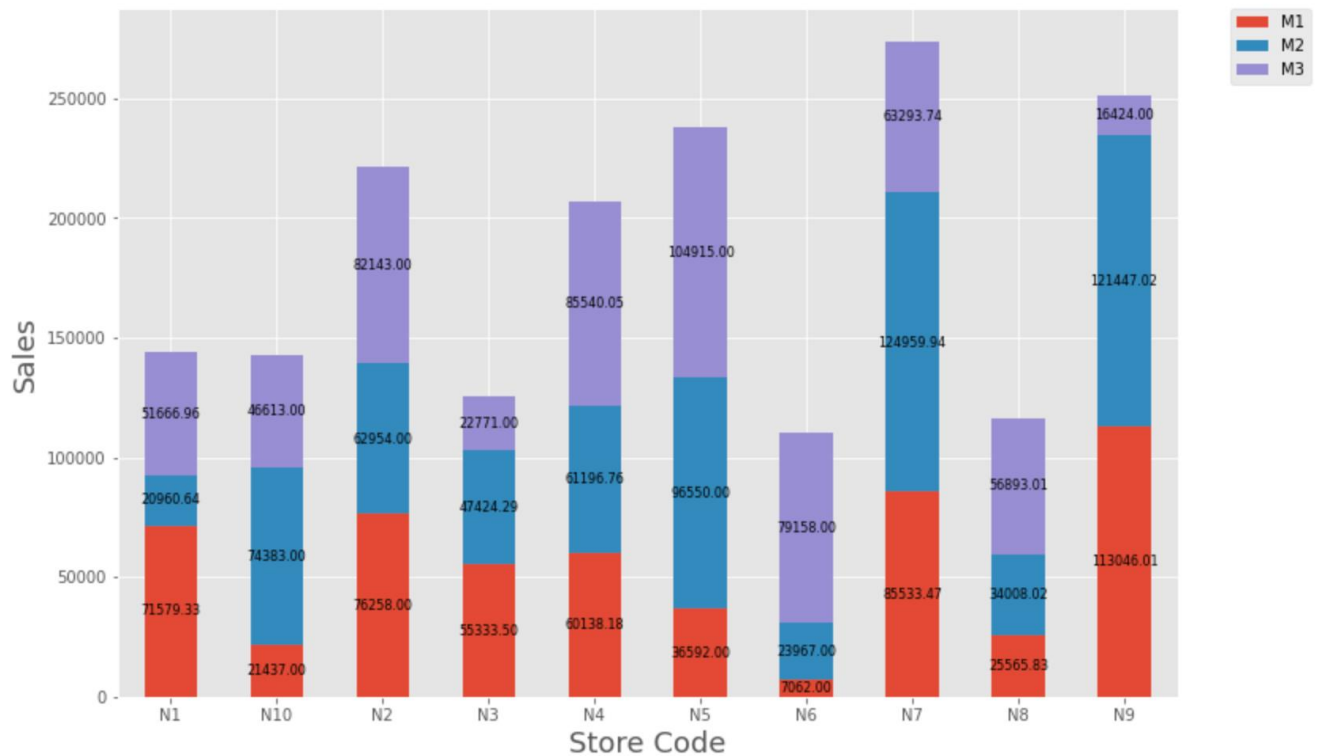
Value: Total Price amount of all items on Invoice

Price: Price amount of Item on Invoice

GRP: Name/Category of Item (Can be further Categorized for Cleaner Visuals)

Tech Analysis

1. Sales by Store: This is the sum of all sales by store.
The Visual shows the sales by store and Month
(Answers bonus Question)



2. Sales By Category

Because of the numerous products provided in the data that are not categorized into smaller buckets, it is best to look at the sum of sales by each month.

The interactive bar chart from the plotly library allows us to see the number of sales by categories for each month by selecting the category of choice using the legend on the right.



3. Sales By Day

To find the day with the most sale by store over the period of 3 months; A new “month_day” column is introduced to the data that shows the sum of the value (Sales) by each day over the period of 3 months.

The line graph is a good indicator of the days with the most sale.

It also shows a trend line of revenue by day in the last 30 days.

