

## Data Ingestion - Data205 Emilio Sanchez San Martin

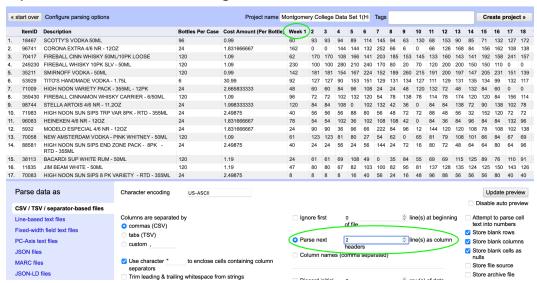


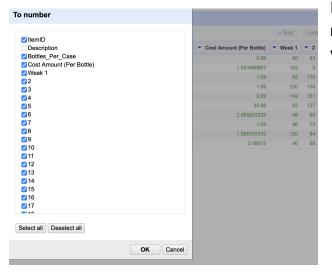
## Data Cleaning:

I will be working with *static data (CSV file)* using three data sets for this project to explore high-, medium-, and low-volume stores for inventory levels and algorithms.

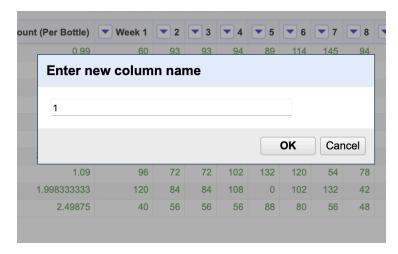
**Documentation:** 

First, I have to parse to the next line for the column name since Week was at the top. I will later have to change the name for each column name.





Here, I converted the data that is numeral to numerical data, since it was first labeled as strings.



For each data set, I changed the column (Week 1) to "1" that way it's readable and I can pull out each week with the data as I am working only defining the number of the week.



Changed Space in Variables with an underscore " ".

Finally, I will use R Studio and save these data sets to make a new column, because I want to take the...

"Bottles\_Per\_Case" and **MULTIPLY** it by "Cost\_Amount\_Per\_Bottle" to get the total cost of the case of alcohol in the stores.

You can open up the code file on R Studio where I have done the below:

```
Finally, I will do my last step with this data set, which is to multiply to "Bottles_Per_Case" varibale with

"Cost_Amount_Per_Bottle" variable to get the "Total_Cost" variable for all the bottles in a case. I will do this for all three data sets.

""{r}

# Creating the Total_Cost variable

High_Volume_Weekly_DS <- High_Volume_Weekly_DS |>

mutate(Total_Cost = Bottles_Per_Case * Cost_Amount_Per_Bottle)

Medium_Volume_Weekly_DS <- Medium_Volume_Weekly_DS |>

mutate(Total_Cost = Bottles_Per_Case * Cost_Amount_Per_Bottle)

Low_Volume_Weekly_DS <- Low_Volume_Weekly_DS |>

mutate(Total_Cost = Bottles_Per_Case * Cost_Amount_Per_Bottle)
```

I also decided to change the number columns for weeks as "Week #"

```
I noticed that the variables on the top of my data set have X1, X2, X3, etc. I will remove the X and replace it with "Week".

"``{r}

# Renaming the columns

colnames(High_Volume_Weekly_DS) <- gsub("X", "Week", colnames(High_Volume_Weekly_DS))

colnames(Medium_Volume_Weekly_DS) <- gsub("X", "Week", colnames(Medium_Volume_Weekly_DS))

colnames(Low_Volume_Weekly_DS) <- gsub("X", "Week", colnames(Low_Volume_Weekly_DS))
```

The data is officially cleaned!

Now onto my EDA! I will continue to work on this on my RStudio Markdown.