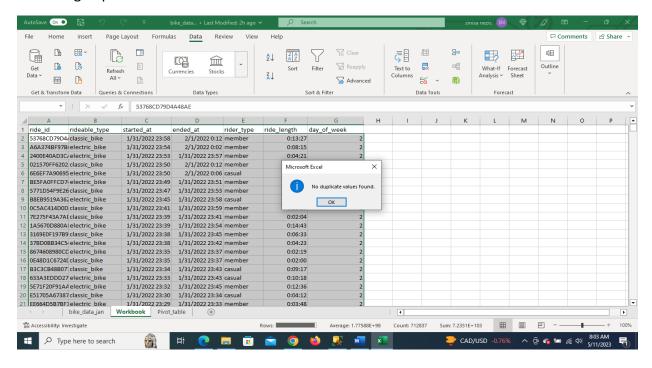
## **Exploratory Data Analysis in Microsoft Excel**

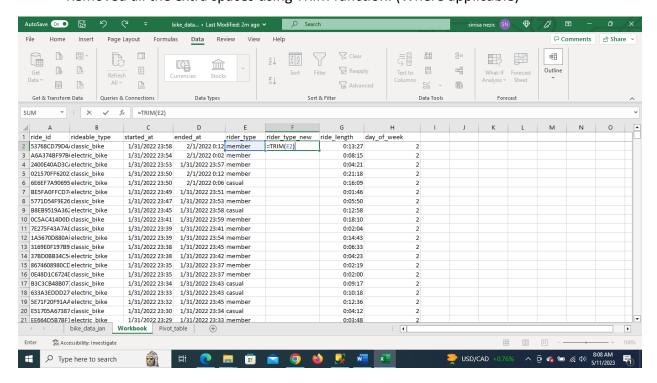
- I created new column called "ride length" and set up values in "time" HH: MM: SS 37:30:55
- I created new column called "day of week" Where Sunday is 1 and Saturday is 7
- I deleted columns which I will not use for the analysis, making tables easy to read and understand.
- Using the function "find and replace", I located all blanks in spreadsheet and deleted them.
- Calculated mean(average) and max values in column "ride length".
- Calculated mode in column "day of week", to discover the most frequently occurring value that appears in this column.
- Using Custom Filter function, I found outliers and deleted all the rows that are showing ride length <01.00 min and 24.00 h>
- Made pivot tables for each of twelve files to get initial insights of how these two types of riders use bikes differently.
- To be specific, for each month, I calculated average ride length, average ride length by day, and number of rides per day, and displayed results through charts to make it easier for stakeholders to understand.

#### **Cleaning Process**

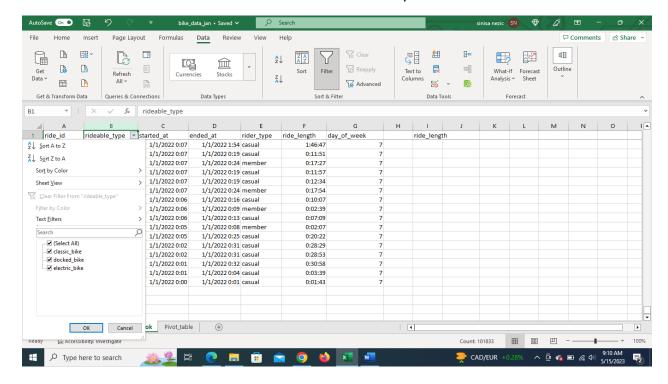
# Removing duplicates:



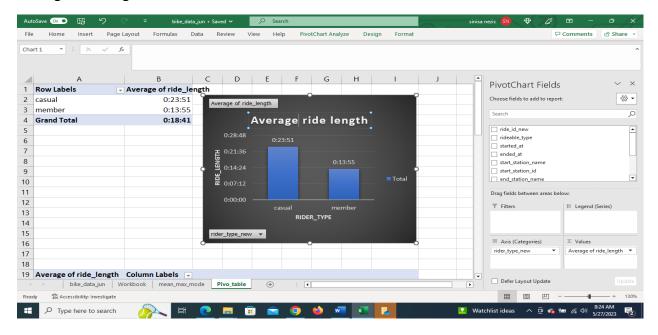
- Made sure that all the tables are consistent (column names etc.)
- Removed all the extra spaces using TRIM function. (Where applicable)



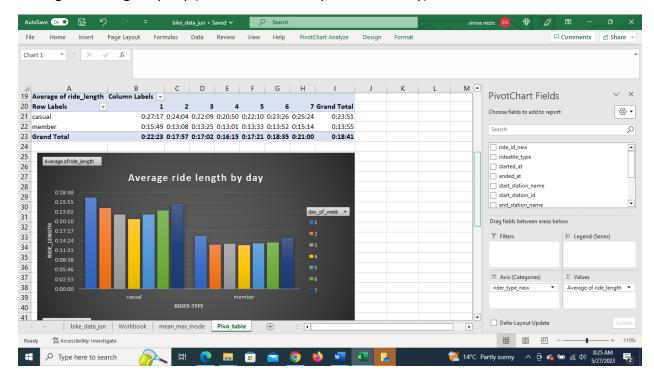
- Made sure that all dates are in the same format.
- Used FILTER function to be sure that there is not any error or unusual values.



### Average ride length:



## Average ride length by day (Where #1 is Sunday, #7 is Saturday)



## Number of rides per day (Where #1 is Sunday, #7 is Saturday)

