The data source contains 18 files in CSV format and for the analysis, I'll be using the files:

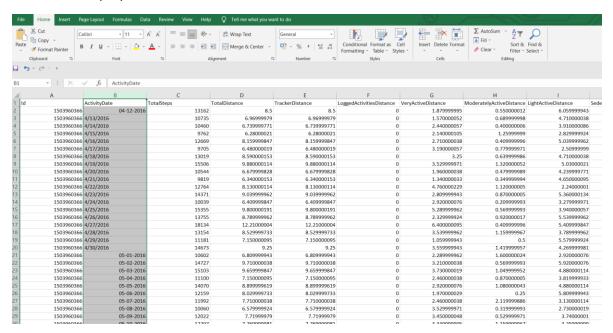
- dailyActivity_merged.csv
- hourlyCalories_merged.csv
- hourlyIntensities_merged.csv
- hourlySteps_merged.csv
- sleepDay_merged.csv

In the dailyActivity_merged.csv dataset, there's a date column with name 'ActivityDate' which is not in proper date format. There are two kinds of date formats in the dataset: mm-dd-yyyy format which is correct date format and the other one being mm/dd/yyyy whose datatype is 'Object'.

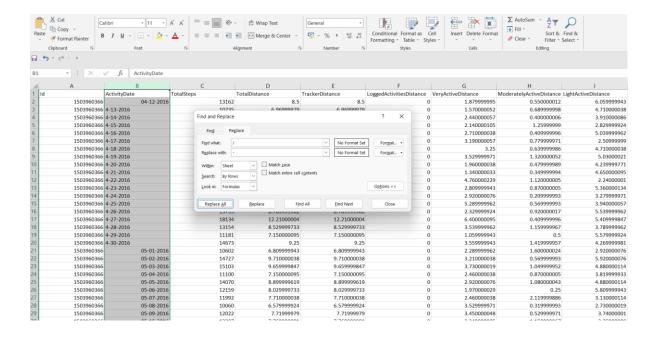
This is the first uncleaned data found during analysis. Since the dataset is a smaller one, I used Microsoft Excel to clean the data for date type.

The steps involved in cleaning the data are documented below:

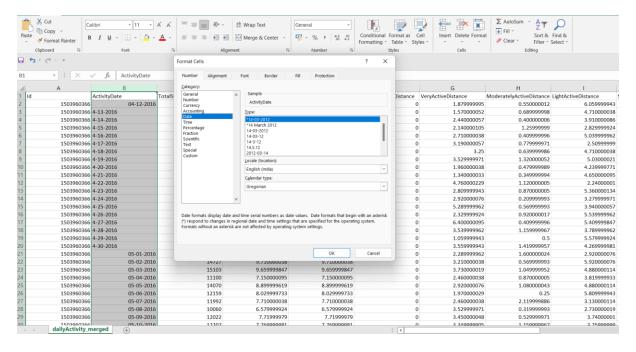
<u>Step-1:</u> The column 'ActivityDate' data is presented and it can be seen that the data has been recorded in improper format.



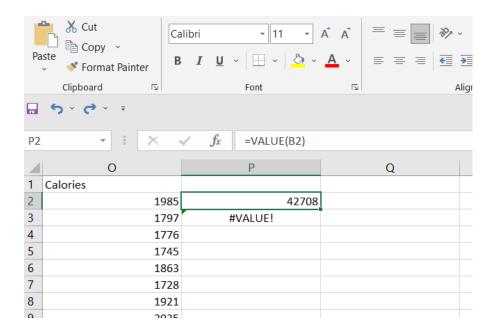
<u>Step-2:</u> Firstly, the improper date format containing – mm/dd/yyyy has been replaced by the proper format – mm-dd-yyyy using the 'Find and Replace tool'.



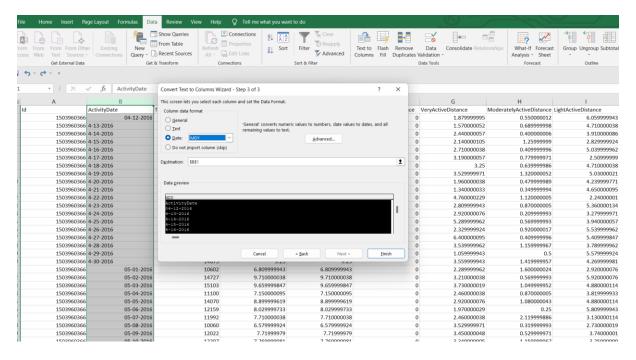
<u>Step-3:</u> After replacing the delimiters, the entire column's format will be changed from 'General' to 'Date'.



<u>Step-4:</u> After converting the 'ActivityDate' column to 'Date' format, we crosscheck the column with the MS Excel function "=VALUE(B2)" where B2 is the column holding the dates. We could see the some values are being generated for few cells which implies they are of 'Date' format while few cells throws an error '#VALUE!' which suggests that the data in the 'B' column are not yet been modified as actual date.



<u>Step-5:</u> Since, the data is still uncleaned, we need to make sure the column 'ActivityDate' is in proper data format. To do this, we select the whole column, and then click on 'Text to Columns' under 'Data' section. Under that we specify the delimiter to '-' which is the delimiter for the whole column and set the Column Data format to 'Date' – "MDY" in which the data is recorded.



Now, the data is cleaned. We can crosscheck whether the data is cleaned or not by repeating step-4.

