**Data Cleaning log for Cyclistic Analsis**

* Read in the data for each month from December 2021 to November 2022.
* Merge DataFrames of each month to one DataFrame using Pandas’ *.concat()* method and named the DataFrame “**all\_data”.**
* Drop null values of “all\_data”.
* Removed duplicates of “all\_data”.
* Using Pandas’ .to\_datetime() method to convert the data types of “started\_at” and “ended\_at” columns.
* Create “**trip\_duration**” column by using “ended\_at” columns minus “started\_at” column.
* Check the values of the “trip\_duration” column with Pandas’ .describe() method.
* Create variable named “negative\_duration” to hold data that has negative values for the “trip\_duration” column.
* Drop rows with negative values in the “trip\_duration” column.
* Convert the “trip\_duration” column from timedelta data type to integer and round the number to minutes.
* Create the **“name\_of\_weekday”** column and extract the name of the day for each data (Monday, Tuesday, etc.)
* Create a dictionary named “**week**” to hold each week in order.
* Convert the data type of “name\_of\_weekday” column to category with Pandas’ .Categorical() method.
* Create the **“month”** column and extract the name of the month for each data.
* Create a dictionary named “**months**” to hold each month in order.
* Convert the data type of “month” column to category with Pandas’ .Categorical() method.
* Create the **“hour”** column and extract the hour for each data.
* Export the cleaned data to a csv file named “**all\_datab”.**