Explore_bikeshare_data

February 24, 2021

0.0.1 Explore Bike Share Data

For this project, your goal is to ask and answer three questions about the available bikeshare data from Washington, Chicago, and New York. This notebook can be submitted directly through the workspace when you are confident in your results.

You will be graded against the project Rubric by a mentor after you have submitted. To get you started, you can use the template below, but feel free to be creative in your solutions!

Import Tools

```
In [16]: library(ggplot2)
```

Get Data

```
In [26]: df <- read.csv('new_york_city.csv', sep ='\t')
```

```
In [11]: ny = read.csv('new_york_city.csv')
```

Prepare DataFrame

```
In [12]: dim(ny)
```

1. 54770 2. 9

```
In [8]: head(ny)
```

X	Start.Time	End.Time	Trip.Duration	Start.Station	End.Station
5688089	2017-06-11 14:55:05	2017-06-11 15:08:21	795	Suffolk St & Stanton St	W Broadwa
4096714	2017-05-11 15:30:11	2017-05-11 15:41:43	692	Lexington Ave & E 63 St	1 Ave & E 7
2173887	2017-03-29 13:26:26	2017-03-29 13:48:31	1325	1 Pl & Clinton St	Henry St &
3945638	2017-05-08 19:47:18	2017-05-08 19:59:01	703	Barrow St & Hudson St	W 20 St & 8
6208972	2017-06-21 07:49:16	2017-06-21 07:54:46	329	1 Ave & E 44 St	E 53 St & 3
1285652	2017-02-22 18:55:24	2017-02-22 19:12:03	998	State St & Smith St	Bond St &

Convert Start Time to Date Time

```
In [14]: gdf <- df[df$source == "Start.Time", ] #extracting column
         Date.Time <- "Start.Time"
```

```
In [15]: x <- as.Date(col.names"Start.Time")
```

```
    Error in parse(text = x, srcfile = src): <text>:1:23: unexpected string constant
1: x <- as.Date(col.names"Start.Time"
                          ^
Traceback:
```

```
In [20]: Date.Time <- Sys.time()
```

0.0.2 Question 1

Your question 1 goes here.

Summary of your question 1 results goes here.

0.0.3 Question 2

Your question 2 goes here.

```
In [ ]: # Your solution code goes here
```

Summary of your question 2 results goes here.

0.0.4 Question 3

Your question 3 goes here.

```
In [ ]: # Your solution code goes here
```

Summary of your question 3 results goes here.

0.1 Finishing Up

Congratulations! You have reached the end of the Explore Bikeshare Data Project. You should be very proud of all you have accomplished!

Tip: Once you are satisfied with your work here, check over your report to make sure that it is satisfies all the areas of the rubric.

0.2 Directions to Submit

Before you submit your project, you need to create a .html or .pdf version of this notebook in the workspace here. To do that, run the code cell below. If it worked correctly, you should get a return code of 0, and you should see the generated .html file in the workspace directory (click on the orange Jupyter icon in the upper left).

Alternatively, you can download this report as .html via the **File** > **Download as** submenu, and then manually upload it into the workspace directory by clicking on the orange Jupyter icon in the upper left, then using the Upload button.

Once you've done this, you can submit your project by clicking on the "Submit Project" button in the lower right here. This will create and submit a zip file with this .ipynb doc and the .html or .pdf version you created. Congratulations!

In [2]:
```
system('python -m nbconvert Explore_bikeshare_data.ipynb')
```