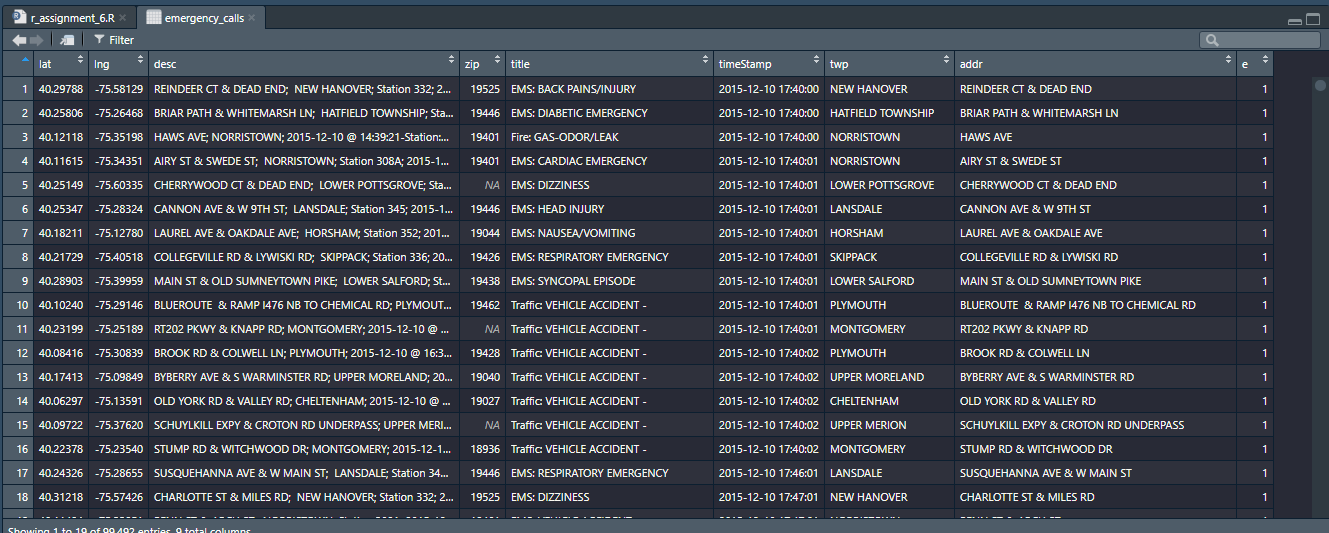
**Dhir Thacker | 17070122019 | CSE-1**

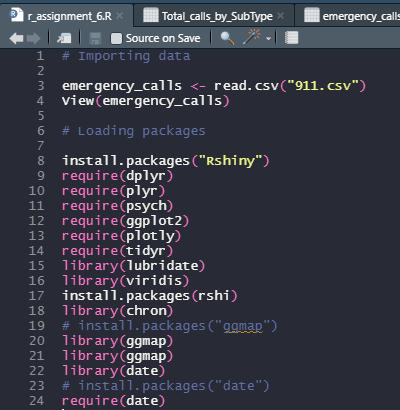
**SD lab assignment 6 (R-assignment 2)**

**Exploratory data analysis in R**

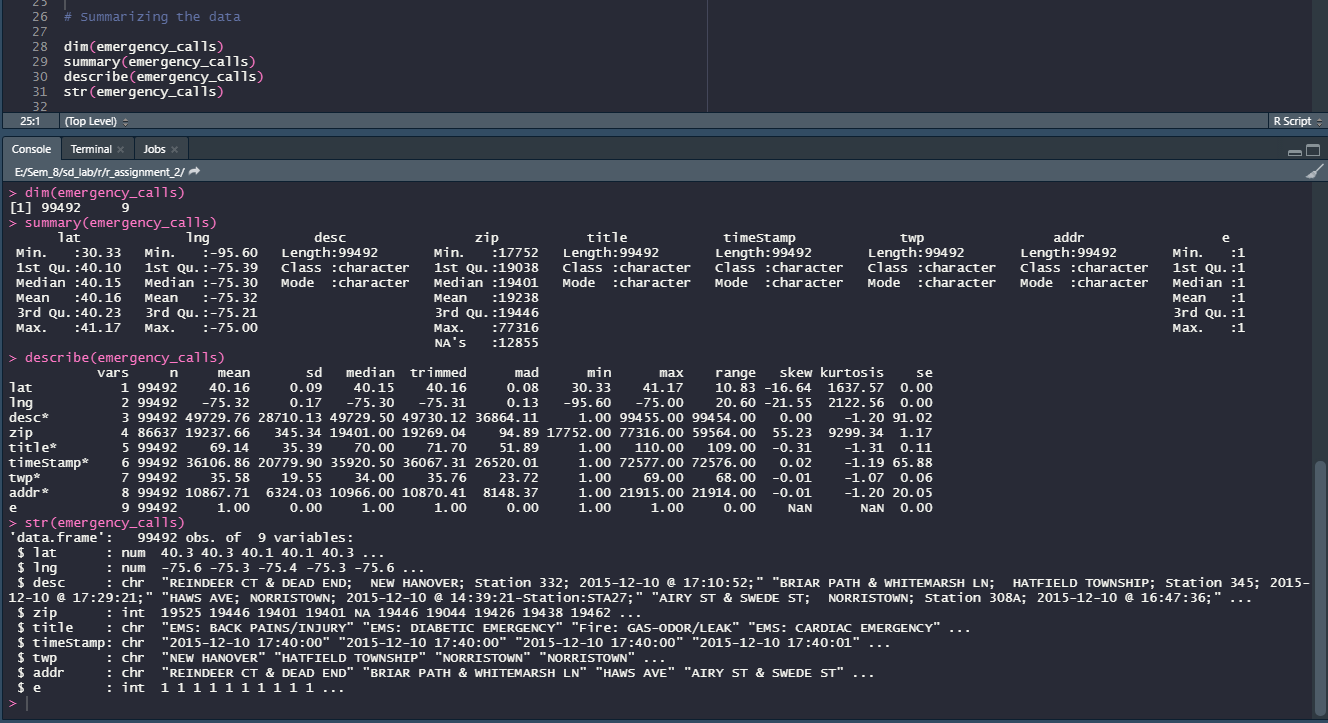
A snippet of the 911.csv dataset



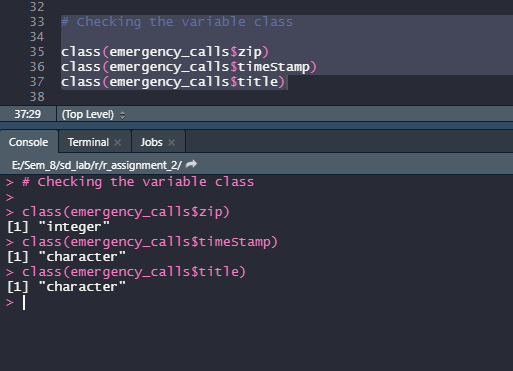
* Loading the dataset and import required libraries and packages



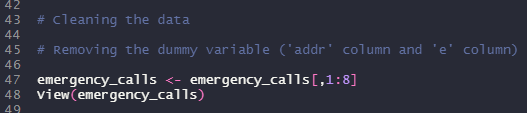
* Summarizing the data

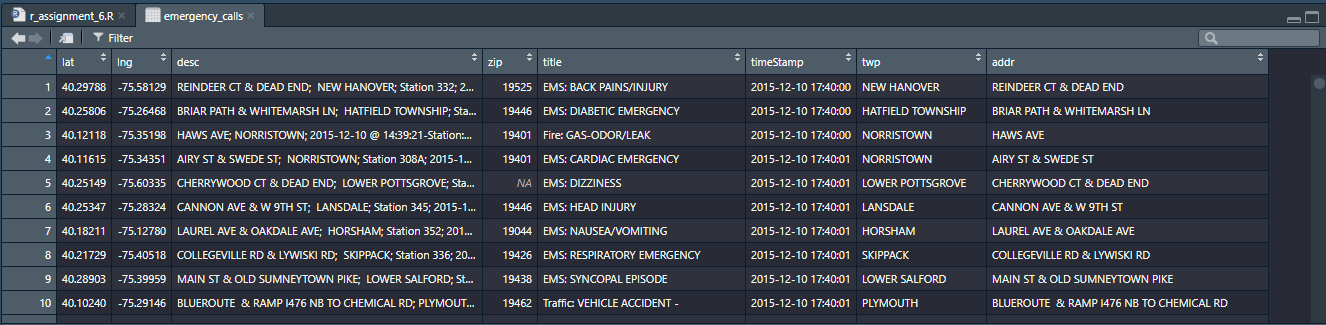


* Checking variable classes

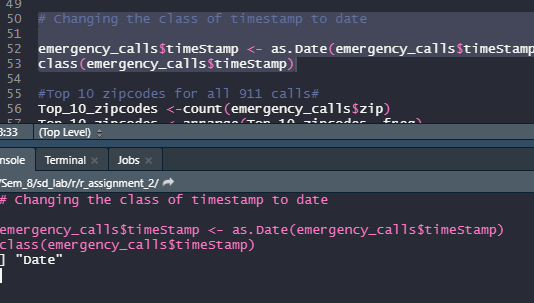


* Cleaning data
  + Removing ‘e’ column

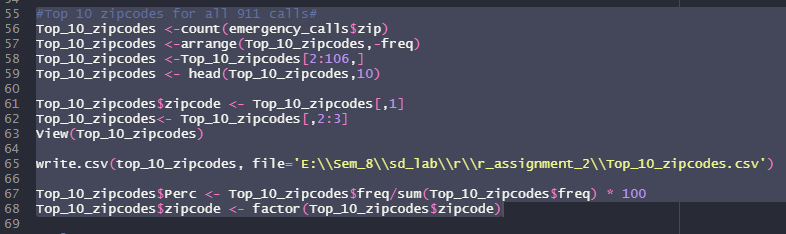


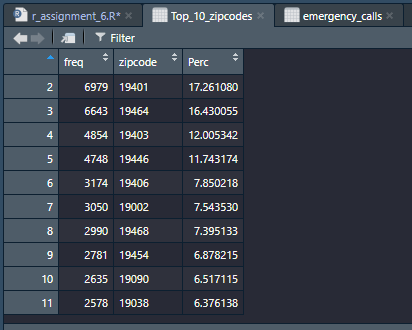


* + Changing class of timestamp to date



* Top 10 zipcodes with the most number of 911 calls

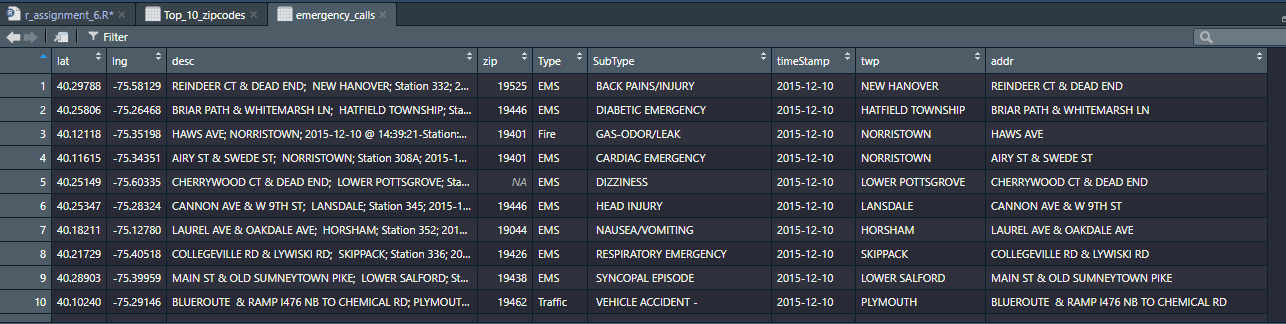




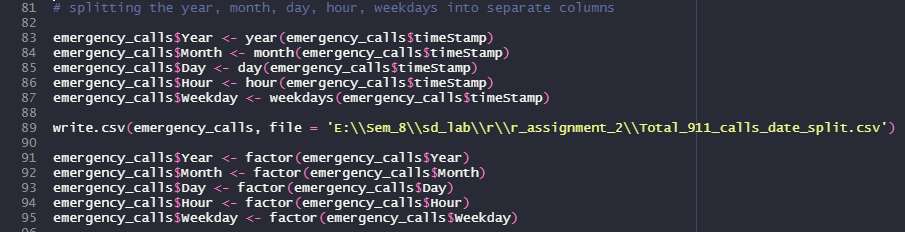
**TOP 10 ZIPCODES WITH MOST NO. OF 911 CALLS**

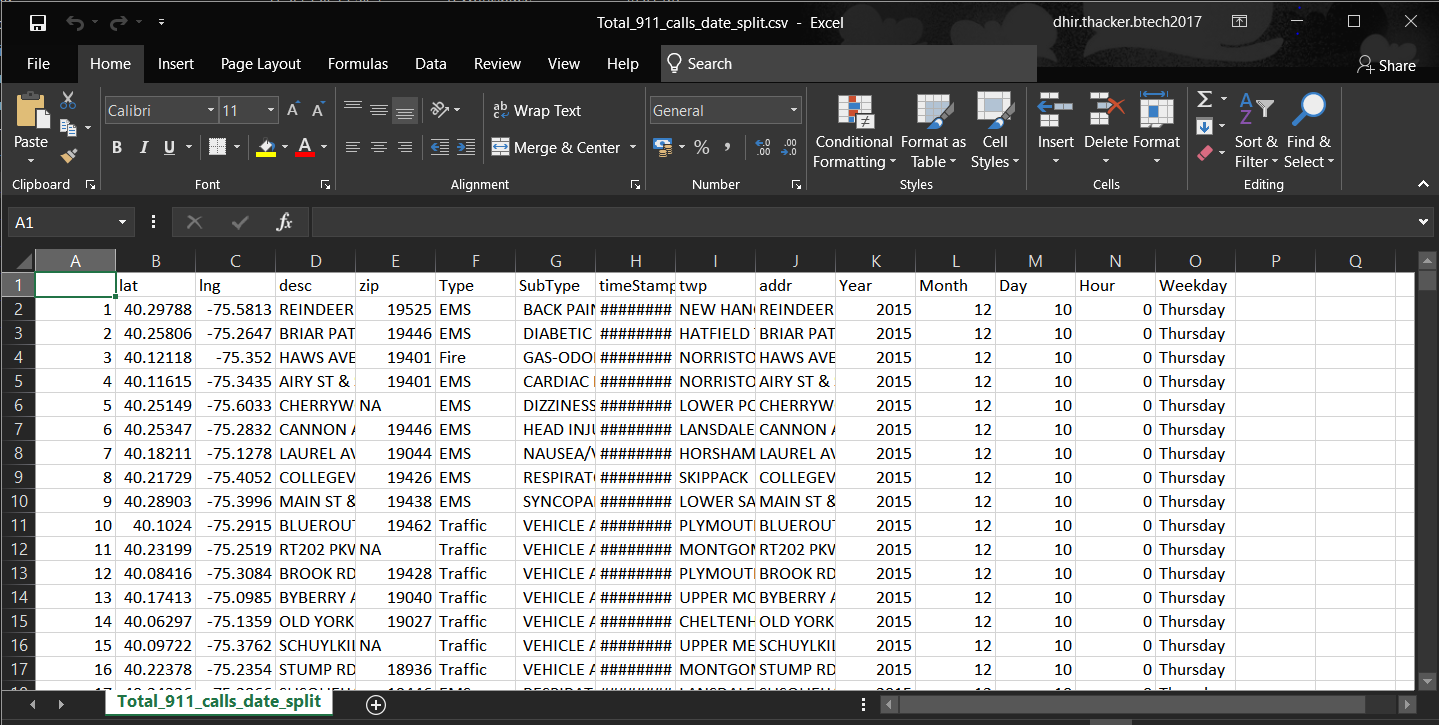
**TOP 10 ZIPCODES WITH MOST PERCENTAGEOF 911 CALLS**

* Splitting title column into type and subtype

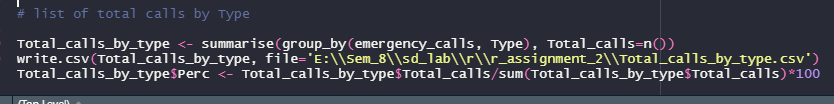


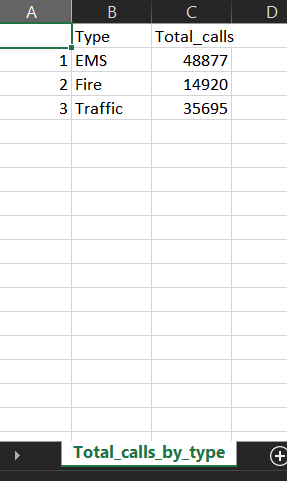
* Splitting date column into year, month, day, hour, weekdays columns



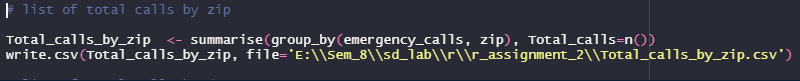


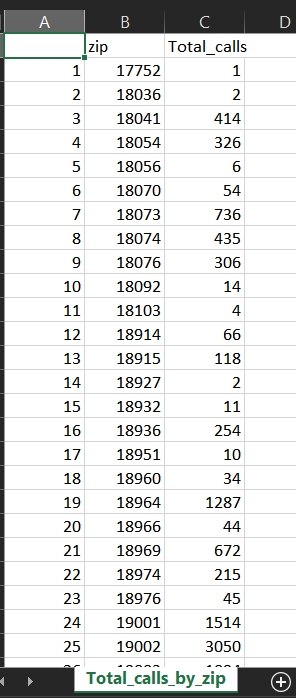
* Type analysis
  + List of total calls by type



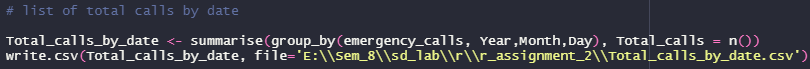


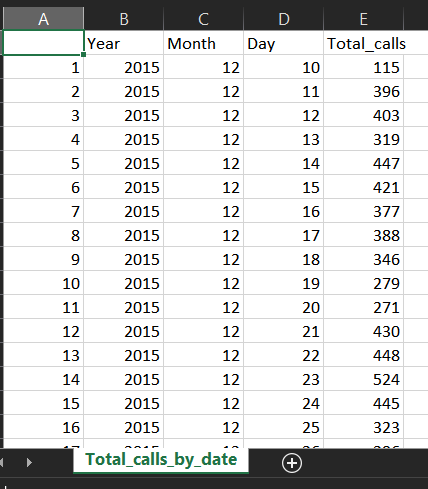
* + List of total calls by zip





* + List of total calls by date

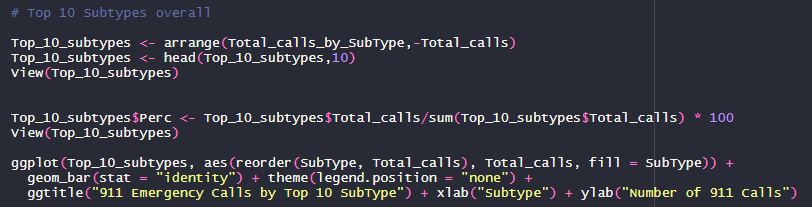




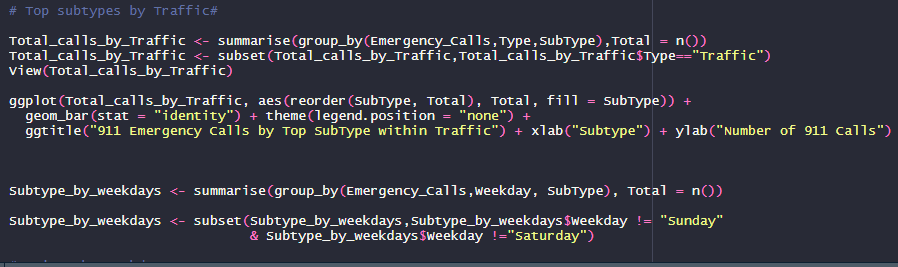
**TOTAL NO.OF 911 CALLS MADE EACH DAY BY DIFFERENT TYPES**

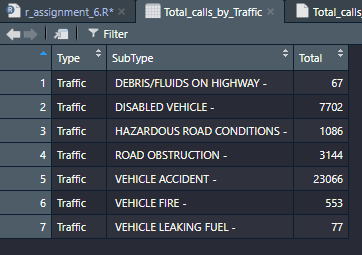
**Important analysis plots**

* Subtype analysis
  + Top 10 subtypes overall

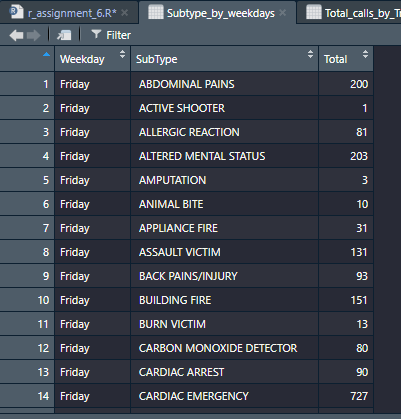


* + Top subtypes by traffic





* + Subtype by weekdays



* + Hourly spike by Traffic subtype