

Project 6 Solutions

Kevin Choe

Collaborators: (Collaborators listed here. Include names, which part of the project you gave or sought help with, and how you helped or were helped.)

TA help: Summeth Guda

Online resources used: (List of links/resources (if any) here. Include web addresses, which part of the project the resource helped with, and how you were helped.)

Question 1

*#First place - My first impression is that the author had great visuals and graphics but some of them w
#Second place - My first impression is that the author spend time on the poster to explain their visual
#Third place - My first impression is that the author had great struture organizing their visuals and t
#Honorable mention- My first impression is that the author spent alot of time on their poster explanin
#Other posters - My first impression is that the author put alot of code but is lacking visuals to expl
#Other posters - My first impression is that the author had some detailed graphics but it was very conf
#Other posters - My first impression is that the author spent alot of time organizing the plots and it a
#Other posters - My first impression is that the author spend little time putting effort into their pos*

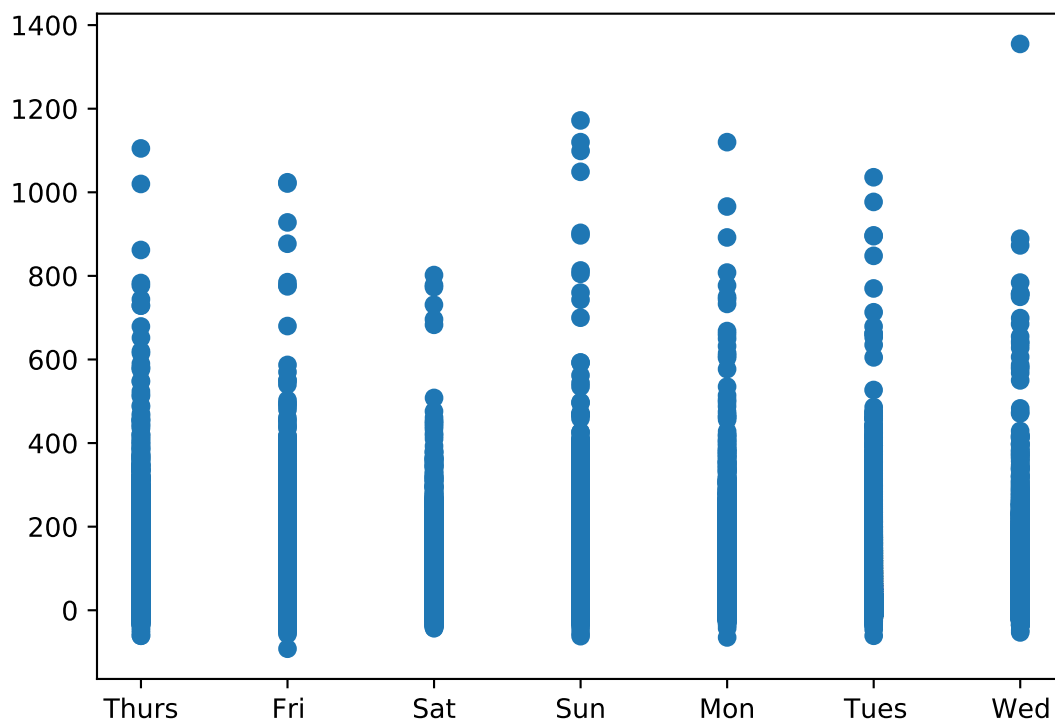
Question 2

*#One interesting thing I liked was how the author presented the ownership of government securities. The
#The second thing I learned was the various trends of imports and exports of England that shifted the b

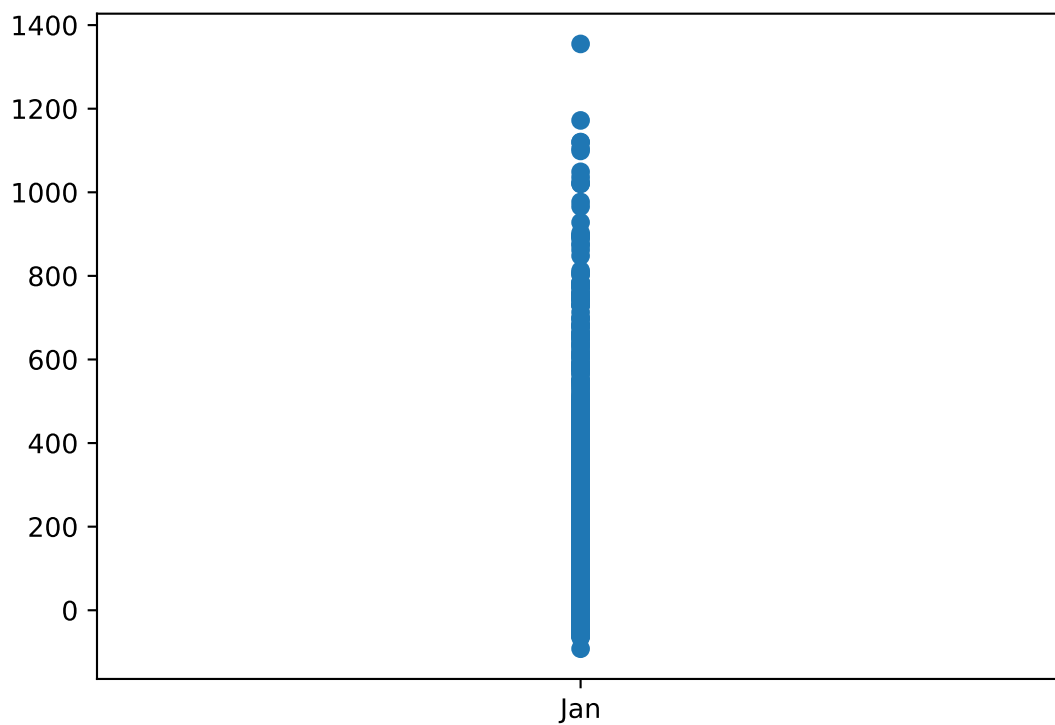
#One thing I liked about this excerpt was the various ways the author presents their data and shows the
#Another thing I learned is how we can pack a large amount of quantitive information into a small regio*

Question 3

```
import pandas as pd
import matplotlib.pyplot as plt
myDF = pd.read_csv("/class/datamine/data/flights/subset/2008.csv")
pd.set_option('display.max_columns', None)
myDF = myDF.loc[:, ['DepDelay', 'DayOfWeek', 'Month', 'Origin', 'ArrDelay']].dropna()
myDF['DayOfWeek'] = myDF['DayOfWeek'].replace([1,2,3,4,5,6,7], ['Mon', 'Tues', 'Wed', 'Thurs', 'Fri', 'Sat', 'Sun'])
plt.scatter(myDF.loc[:, 'DayOfWeek'].to_list()[0:500000], myDF.loc[:, 'DepDelay'].to_list()[0:500000])
plt.show()
```

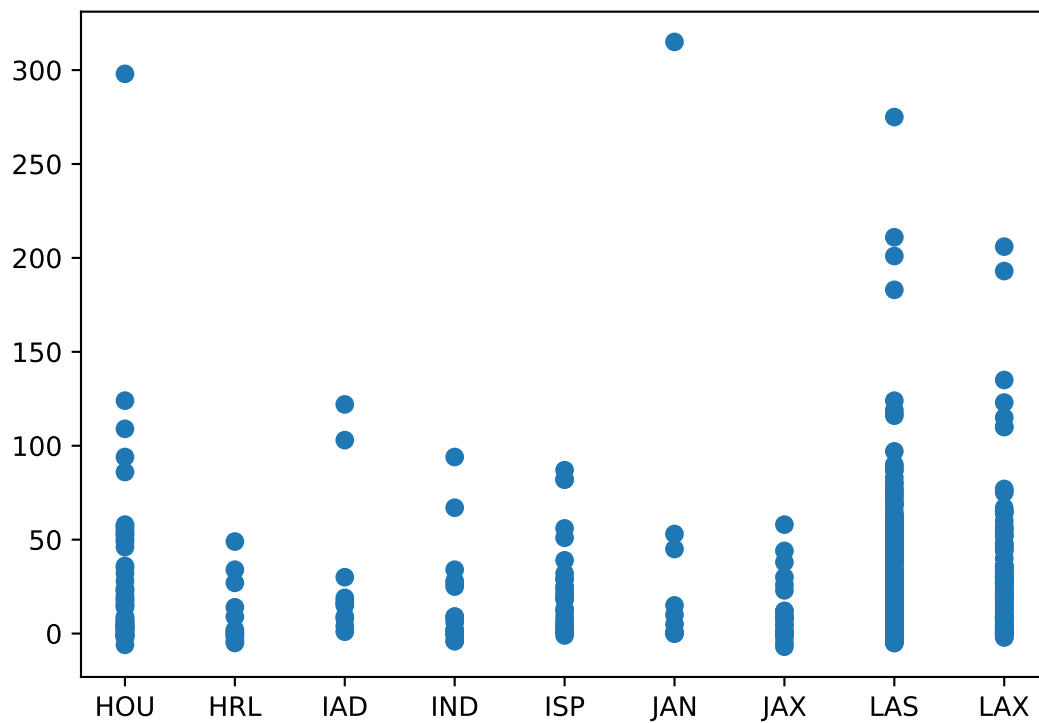


```
plt.close()
# I compared each Day of the Week to the number of departure delays occurrences. The best practices from
myDF['Month'] = myDF['Month'].replace([1,2,3,4,5,6,7,8,9,10,11,12],['Jan','Feb','Mar','Apr','May','Jun',
plt.scatter(myDF.loc[:, "Month"].to_list()[0:500000], myDF.loc[:, "DepDelay"].to_list()[0:500000])
plt.show()
```



```
plt.close()
```

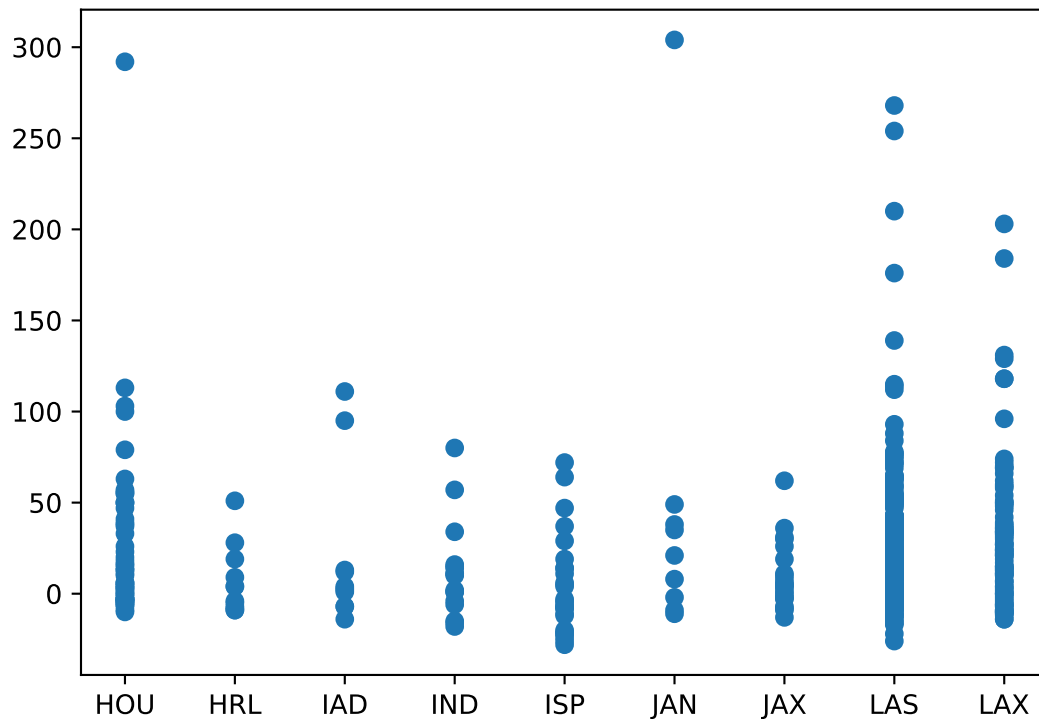
```
# I comapred the first few months of the Spring season to the number of departure delays occurances. Pr  
myDF['Origin'] = myDF['Origin'].replace([1,2],['IND','LAX',])  
plt.scatter(myDF.loc[: , "Origin"].to_list()[0:500], myDF.loc[: , "DepDelay"].to_list()[0:500])  
plt.show()
```



```
plt.close()
```

I compared a sample of flight location origins against the number of departure delay occurrences. Practi

```
myDF['Origin'] = myDF['Origin'].replace([1,2],['HOU','LAX',])
plt.scatter(myDF.loc[:, "Origin"].to_list()[0:500], myDF.loc[:, "ArrDelay"].to_list()[0:500])
plt.show()
```



```
plt.close()
```

I compared the flight origins of location origins versus the number of arrival delay occurrences. Prac

Question 4

*#First place - My second impression is that the author had decent visuals and some graphics but many we
 #Second place - My second impression is that the author spent some time on the poster to explain their
 #Third place - My second impression is that the author had some struture organizing their visuals and v
 #Honorable mention- My second impression is that the author spent some time on their poster explaining
 #Other posters - My second impression is that the author put alot of their working code but needs more
 #Other posters - My second impression is that the author had various detailed graphics but it was still
 #Other posters - My second impression is that the author spent some time organizing the plots and it wa
 #Other posters - My second impression is that the author spend very little time putting effort into the
 #The poster which I changed the most was the first poster because initally I thought it was good compar*

Pledge

By submitting this work I hereby pledge that this is my own, personal work. I've acknowledged in the designated place at the top of this file all sources that I used to complete said work, including but not limited to: online resources, books, and electronic communications. I've noted all collaboration with fellow students and/or TA's. I did not copy or plagiarize another's work.

As a Boilermaker pursuing academic excellence, I pledge to be honest and true in all that I do.
 Accountable together – We are Purdue.