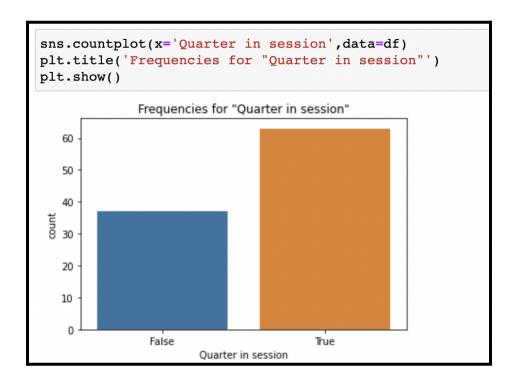
```
import pandas as pd
import matplotlib.pyplot as plt
import seaborn as sns
```

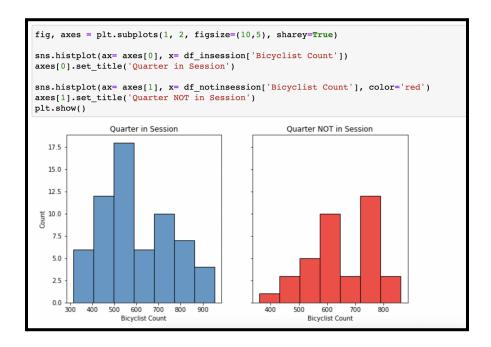
Load in Data

#]	pd.reaload in	_ '	sers/briannagrissom/o	downloads/data	.csv')				
	Full date	Day of week	In Person school in session	Quarter in session	Temp (avg)	Temp (high)	Temp (low)	Day Length	Bicyclist Count
0	6/9/21	Wed	False	True	66.0	78	54	14:24	603
1	6/16/21	Wed	False	False	70.0	77	63	14:27	486
2	6/23/21	Wed	False	False	68.0	76	60	14:27	464
3	6/30/21	Wed	False	False	68.0	74	62	14:25	600
4	7/7/21	Wed	False	False	67.0	75	59	14:21	654

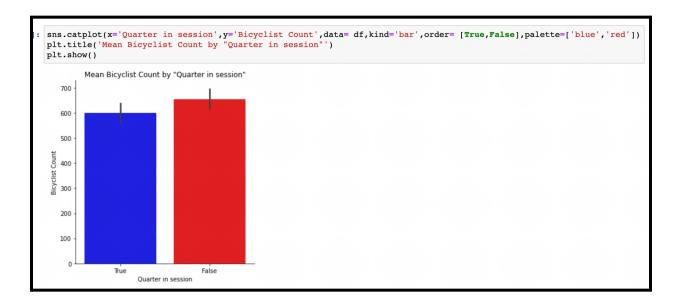
Counts Recorded for Quarter in Session & Quarter NOT in Session



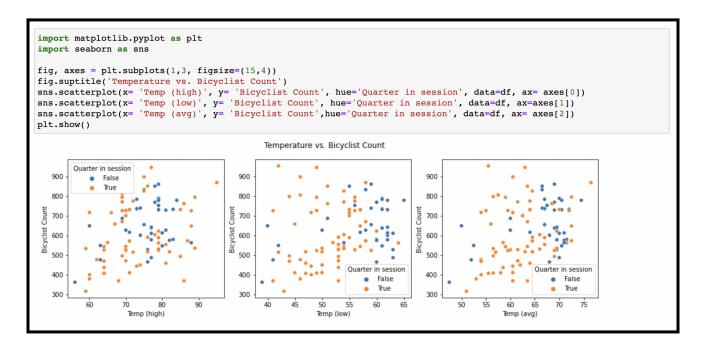
Histogram of Quarter in Session vs. Quarter NOT in Session



Barplot of Mean Bicyclist Count by Quarter in Session

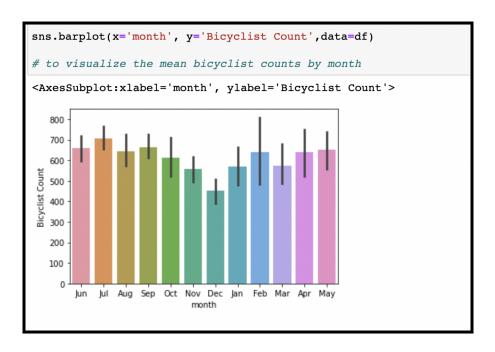


High, Low, & Average Temperatures vs. Bicycle Count



Mean, Minimum, and Maximum Bicyclist Counts per Month

Visualization of Mean Bicyclist Counts per Month



Mean Temperatures and Bicyclist Counts Grouped by Month

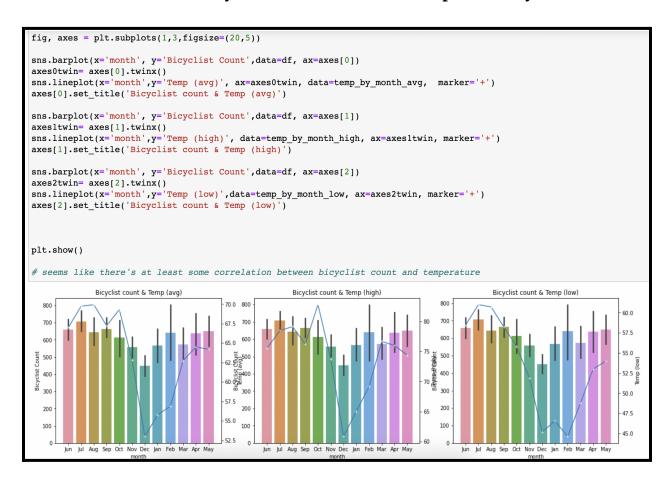
gro	upby(df['	month'])[['Temp (a	vg)','Temp (
the	mean temp	eratures	and bicyc	list count g
month	Temp (avg)	Temp (high)	Temp (low)	Bicyclist Count
Jul	69.722222	78.44444	61.000000	707.666667
Sep	67.22222	76.222222	58.222222	664.777778
Jun	67.000000	75.538462	58.461538	660.230769
May	64.187500	74.375000	54.000000	651.000000
Aug	69.928571	79.142857	60.714286	643.428571
Feb	56.875000	69.125000	44.625000	640.625000
Apr	64.500000	76.000000	53.000000	637.888889
Oct	69.300000	82.800000	55.800000	613.600000
Mar	62.722222	76.666667	48.777778	572.888889
Jan	55.777778	65.000000	46.555556	567.777778
Nov	62.812500	73.750000	51.875000	556.875000
Dec	53.000000	60.833333	45.166667	450.333333

Get Mean Temperatures (average, high, low) by Month

```
temp_by_month_avg = df.groupby(df['month']).mean()['Temp (avg)'].reset_index()
temp_by_month_high = df.groupby(df['month']).mean()['Temp (high)'].reset_index()
temp_by_month_low = df.groupby(df['month']).mean()['Temp (low)'].reset_index()
# get the mean tempeatures by month

temp_by_month_avg = temp_by_month_avg.reindex([6,5,1,11,10,9,2,4,3,7,0,8])
temp_by_month_high = temp_by_month_high.reindex([6,5,1,11,10,9,2,4,3,7,0,8])
temp_by_month_low = temp_by_month_low.reindex([6,5,1,11, 10,9,2,4,3,7,0,8])
# to make sure the months are in the right order to plot with the bicyclist counts
```

Visualization of Mean Bicyclist Count and Mean Temperature by Month



Mean Average, Low, and High Temperatures by Quarter In Session

```
df.loc[df['Quarter in session']==True, 'Temp (avg)'].mean()
df.loc[df['Quarter in session']==True, 'Temp (high)'].mean()
df.loc[df['Quarter in session']==True, 'Temp (low)'].mean()
# 62, 73, 51 mean avg, low, and high temp respectively, & 599 mean bicyclist count when quarter in session

df.loc[df['Quarter in session']==False, 'Temp (avg)'].mean()
df.loc[df['Quarter in session']==False, 'Temp (high)'].mean()
df.loc[df['Quarter in session']==False, 'Temp (low)'].mean()
# 67, 76, 57 mean avg, low, and high temp respectively, & 655 mean bicyclist count when quarter NOT in session
```

Quarter in Session: 62, 73, 51, avg, low, and high temperature respectively. 599 mean bicyclist count.

Quarter NOT in Session: 67, 76, 57, avg, low, and high temperature respectively. 655 mean bicyclist count.

Visualization of Day Length vs. Bicyclist Count

