

```
In [1]: import numpy as np           #Numpy helps with manipulation of large, mu
import pandas as pd               #Data manipulation & Analysis
import scipy                     #Additional functionality over np
import matplotlib.pyplot as plt  #Plots
```

```
In [2]: df3 = pd.read_csv("https://raw.githubusercontent.com/suhasbn/DS310/master/us_
```

```
In [3]: df3.head()
```

```
Out[3]:
```

	iata	airport	city	state	country	lat	long	cnt
0	ORD	Chicago O'Hare International	Chicago	IL	USA	41.979595	-87.904464	25129
1	ATL	William B Hartsfield-Atlanta Intl	Atlanta	GA	USA	33.640444	-84.426944	21925
2	DFW	Dallas-Fort Worth International	Dallas-Fort Worth	TX	USA	32.895951	-97.037200	20662
3	PHX	Phoenix Sky Harbor International	Phoenix	AZ	USA	33.434167	-112.008056	17290
4	DEN	Denver Intl	Denver	CO	USA	39.858408	-104.667002	13781

```
In [4]: ## Calculate the var() on dataframe3
df3.var()
```

```
Out[4]: lat      2.981850e+01
long      2.270238e+02
cnt       1.407436e+07
dtype: float64
```

```
In [5]: ## Calculate max() on dataframe3
df3.max()
```

```
Out[5]: iata      YUM
airport      Yuma MCAS-Yuma International
country      USA
lat          48.79275
long         -70.30875
cnt          25129
dtype: object
```

```
In [7]: ## What is the range of lattitudes on dataframe3?
df3['lat'].max() - df3['lat'].min()
```

Out[7]: 22.999499999999998

```
In [15]: ## List the top 5 percentile in terms of cnt parameter.
a = df3['cnt'].quantile(0.05)
df3[(df3['cnt'] > a)]
```

Out[15]:

	iata	airport	city	state	country	lat	long	cnt
0	ORD	Chicago O'Hare International	Chicago	IL	USA	41.979595	-87.904464	25129
1	ATL	William B Hartsfield-Atlanta Intl	Atlanta	GA	USA	33.640444	-84.426944	21925
2	DFW	Dallas-Fort Worth International	Dallas-Fort Worth	TX	USA	32.895951	-97.037200	20662
3	PHX	Phoenix Sky Harbor International	Phoenix	AZ	USA	33.434167	-112.008056	17290
4	DEN	Denver Intl	Denver	CO	USA	39.858408	-104.667002	13781
...
200	FCA	Glacier Park Intl	Kalispell	MT	USA	48.311405	-114.255069	90
201	MLB	Melbourne International	Melbourne	FL	USA	28.102750	-80.645806	74
202	DAB	Daytona Beach International	Daytona Beach	FL	USA	29.179917	-81.058056	72
203	ABE	Lehigh Valley International	Allentown	PA	USA	40.652363	-75.440402	60
204	DLH	Duluth International	Duluth	MN	USA	46.842090	-92.193649	58

205 rows × 8 columns