WeatherPy

Analysis

- Observed trend 1
- Observed trend 2
- Observed trend 3

In [13]:

Generate Cities List

In [14]:

Out[14]: 620

Perform API Calls

In [15]:

1/11/2017

WeatherPy-Copy1

file:///Users/afhaque/Downloads/WeatherPy-Copy1.html

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```
http://api.openweathermap.org/data/2.5/weather?units=Imperial&APPID=924783bda048569443e49dd6a03e5591&q=farafangana
Processing Record 20 of Set 12 | santiago
http://api.openweathermap.org/data/2.5/weather?units=Imperial&APPID=924783bda048569443e49dd6a03e5591&q=santiago
Processing Record 21 of Set 12 | satitoa
http://api.openweathermap.org/data/2.5/weather?units=Imperial&APPID=924783bda048569443e49dd6a03e5591&q=satitoa
City not found. Skipping...
Processing Record 22 of Set 12 | tabulbah
http://api.openweathermap.org/data/2.5/weather?units=Imperial&APPID=924783bda048569443e49dd6a03e5591&q=tabulbah
City not found. Skipping...
Processing Record 23 of Set 12 | kabare
http://api.openweathermap.org/data/2.5/weather?units=Imperial&APPID=924783bda048569443e49dd6a03e5591&q=kabare
Processing Record 24 of Set 12 | cabatuan
http://api.openweathermap.org/data/2.5/weather?units=Imperial&APPID=924783bda048569443e49dd6a03e5591&q=cabatuan
Processing Record 25 of Set 12 | verkhniye sergi
http://api.openweathermap.org/data/2.5/weather?units=Imperial&APPID=924783bda048569443e49dd6a03e5591&q=verkhniye%20sergi
Processing Record 26 of Set 12 | kuandian
http://api.openweathermap.org/data/2.5/weather?units=Imperial&APPID=924783bda048569443e49dd6a03e5591&q=kuandian
Processing Record 27 of Set 12 | pacific grove
http://api.openweathermap.org/data/2.5/weather?units=Imperial&APPID=924783bda048569443e49dd6a03e5591&q=pacific%20grove
Processing Record 28 of Set 12 | taoudenni
http://api.openweathermap.org/data/2.5/weather?units=Imperial&APPID=924783bda048569443e49dd6a03e5591&q=taoudenni
Processing Record 29 of Set 12 | rio gallegos
http://api.openweathermap.org/data/2.5/weather?units=Imperial&APPID=924783bda048569443e49dd6a03e5591&q=rio%20gallegos
Processing Record 30 of Set 12 | oshikango
http://api.openweathermap.org/data/2.5/weather?units=Imperial&APPID=924783bda048569443e49dd6a03e5591&q=oshikango
Processing Record 31 of Set 12 | porbandar
http://api.openweathermap.org/data/2.5/weather?units=Imperial&APPID=924783bda048569443e49dd6a03e5591&q=porbandar
Processing Record 32 of Set 12 | aruppukkottai
http://api.openweathermap.org/data/2.5/weather?units=Imperial&APPID=924783bda048569443e49dd6a03e5591&q=aruppukkottai
Processing Record 33 of Set 12 | malwan
http://api.openweathermap.org/data/2.5/weather?units=Imperial&APPID=924783bda048569443e49dd6a03e5591&q=malwan
Processing Record 34 of Set 12 | konstantinovka
http://api.openweathermap.org/data/2.5/weather?units=Imperial&APPID=924783bda048569443e49dd6a03e5591&q=konstantinovka
Processing Record 35 of Set 12 | juegang
http://api.openweathermap.org/data/2.5/weather?units=Imperial&APPID=924783bda048569443e49dd6a03e5591&q=juegang
Processing Record 36 of Set 12 | gizo
http://api.openweathermap.org/data/2.5/weather?units=Imperial&APPID=924783bda048569443e49dd6a03e5591&q=gizo
Processing Record 37 of Set 12 | bargal
http://api.openweathermap.org/data/2.5/weather?units=Imperial&APPID=924783bda048569443e49dd6a03e5591&q=bargal
Processing Record 38 of Set 12 | angoram
http://api.openweathermap.org/data/2.5/weather?units=Imperial&APPID=924783bda048569443e49dd6a03e5591&q=angoram
Processing Record 39 of Set 12 | skalistyy
http://api.openweathermap.org/data/2.5/weather?units=Imperial&APPID=924783bda048569443e49dd6a03e5591&q=skalistyy
Processing Record 40 of Set 12 | birjand
http://api.openweathermap.org/data/2.5/weather?units=Imperial&APPID=924783bda048569443e49dd6a03e5591&q=birjand
Processing Record 41 of Set 12 | aguimes
http://api.openweathermap.org/data/2.5/weather?units=Imperial&APPID=924783bda048569443e49dd6a03e5591&q=aguimes
Processing Record 42 of Set 12 | petropavlovsk-kamchatskiy
http://api.openweathermap.org/data/2.5/weather?units=Imperial&APPID=924783bda048569443e49dd6a03e5591&q=petropavlovsk-kamchatskiy
Processing Record 43 of Set 12 | birsk
http://api.openweathermap.org/data/2.5/weather?units=Imperial&APPID=924783bda048569443e49dd6a03e5591&q=birsk
Processing Record 44 of Set 12 | dzaoudzi
http://api.openweathermap.org/data/2.5/weather?units=Imperial&APPID=924783bda048569443e49dd6a03e5591&q=dzaoudzi
Processing Record 45 of Set 12 | melton
http://api.openweathermap.org/data/2.5/weather?units=Imperial&APPID=924783bda048569443e49dd6a03e5591&q=melton
Processing Record 46 of Set 12 | klaksvik
http://api.openweathermap.org/data/2.5/weather?units=Imperial&APPID=924783bda048569443e49dd6a03e5591&q=klaksvik
Processing Record 47 of Set 12 | northam
http://api.openweathermap.org/data/2.5/weather?units=Imperial&APPID=924783bda048569443e49dd6a03e5591&q=northam
Processing Record 48 of Set 12 | crab hill
http://api.openweathermap.org/data/2.5/weather?units=Imperial&APPID=924783bda048569443e49dd6a03e5591&q=crab%20hill
Processing Record 49 of Set 12 | alekseyevsk
http://api.openweathermap.org/data/2.5/weather?units=Imperial&APPID=924783bda048569443e49dd6a03e5591&q=alekseyevsk
Processing Record 0 of Set 13 | rumoi
http://api.openweathermap.org/data/2.5/weather?units=Imperial&APPID=924783bda048569443e49dd6a03e5591&q=rumoi
Processing Record 1 of Set 13 | shebunino
http://api.openweathermap.org/data/2.5/weather?units=Imperial&APPID=924783bda048569443e49dd6a03e5591&q=shebunino
Processing Record 2 of Set 13 | prabumulih
http://api.openweathermap.org/data/2.5/weather?units=Imperial&APPID=924783bda048569443e49dd6a03e5591&q=prabumulih
Processing Record 3 of Set 13 | karpogory
http://api.openweathermap.org/data/2.5/weather?units=Imperial&APPID=924783bda048569443e49dd6a03e5591&q=karpogory
Processing Record 4 of Set 13 | strelka
http://api.openweathermap.org/data/2.5/weather?units=Imperial&APPID=924783bda048569443e49dd6a03e5591&q=strelka
Processing Record 5 of Set 13 | turan
http://api.openweathermap.org/data/2.5/weather?units=Imperial&APPID=924783bda048569443e49dd6a03e5591&q=turan
Processing Record 6 of Set 13 | chiredzi
http://api.openweathermap.org/data/2.5/weather?units=Imperial&APPID=924783bda048569443e49dd6a03e5591&q=chiredzi
Processing Record 7 of Set 13 | torbat-e jam
http://api.openweathermap.org/data/2.5/weather?units=Imperial&APPID=924783bda048569443e49dd6a03e5591&q=torbat-e%20jam
Processing Record 8 of Set 13 | khormuj
http://api.openweathermap.org/data/2.5/weather?units=Imperial&APPID=924783bda048569443e49dd6a03e5591&q=khormuj
Processing Record 9 of Set 13 | uncia
http://api.openweathermap.org/data/2.5/weather?units=Imperial&APPID=924783bda048569443e49dd6a03e5591&q=uncia
Processing Record 10 of Set 13 | morehead
http://api.openweathermap.org/data/2.5/weather?units=Imperial&APPID=924783bda048569443e49dd6a03e5591&q=morehead
Processing Record 11 of Set 13 | manuel doblado
http://api.openweathermap.org/data/2.5/weather?units=Imperial&APPID=924783bda048569443e49dd6a03e5591&q=manuel%20doblado
Processing Record 12 of Set 13 | sabancuy
http://api.openweathermap.org/data/2.5/weather?units=Imperial&APPID=924783bda048569443e49dd6a03e5591&q=sabancuy
Processing Record 13 of Set 13 | lampazos de naranjo
http://api.openweathermap.org/data/2.5/weather?units=Imperial&APPID=924783bda048569443e49dd6a03e5591&q=lampazos%20de%20naranjo
Processing Record 14 of Set 13 | pokrovsk
http://api.openweathermap.org/data/2.5/weather?units=Imperial&APPID=924783bda048569443e49dd6a03e5591&q=pokrovsk
Processing Record 15 of Set 13 | mrirt
http://api.openweathermap.org/data/2.5/weather?units=Imperial&APPID=924783bda048569443e49dd6a03e5591&q=mrirt
Processing Record 16 of Set 13 | wailuku
http://api.openweathermap.org/data/2.5/weather?units=Imperial&APPID=924783bda048569443e49dd6a03e5591&q=wailuku
Processing Record 17 of Set 13 | brignoles
http://api.openweathermap.org/data/2.5/weather?units=Imperial&APPID=924783bda048569443e49dd6a03e5591&q=brignoles
Processing Record 18 of Set 13 | beloha
http://api.openweathermap.org/data/2.5/weather?units=Imperial&APPID=924783bda048569443e49dd6a03e5591&q=beloha
Processing Record 19 of Set 13 | debre tabor
http://api.openweathermap.org/data/2.5/weather?units=Imperial&APPID=924783bda048569443e49dd6a03e5591&q=debre%20tabor
----------------------------
Data Retrieval Complete
----------------------------
```

In [16]:

Out[16]:
```
City          616
Cloudiness    616
Country       616
Date          616
Humidity      616
Lat           616
Lng           616
Max Temp      616
Wind Speed    616
dtype: int64
```

In [17]:
```
# Display the City Data Frame
city_data_pd.head()
```

Out[17]:

	City	Cloudiness	Country	Date	Humidity	Lat	Lng	Max Temp	Wind Speed
0	longyearbyen	75	SJ	1483588200	73	78.22	15.64	26.6	19.46
1	asau	0	RO	1483592400	59	46.43	26.40	37.4	14.99
2	hartselle	1	US	1483592280	86	34.44	-86.94	32.0	3.36
3	komsomolskiy	40	UZ	1483592400	80	40.43	71.72	37.4	3.36
4	kapaa	90	US	1483592160	88	22.08	-159.32	71.6	17.22

Latitude vs Temperature Plot

In [18]:
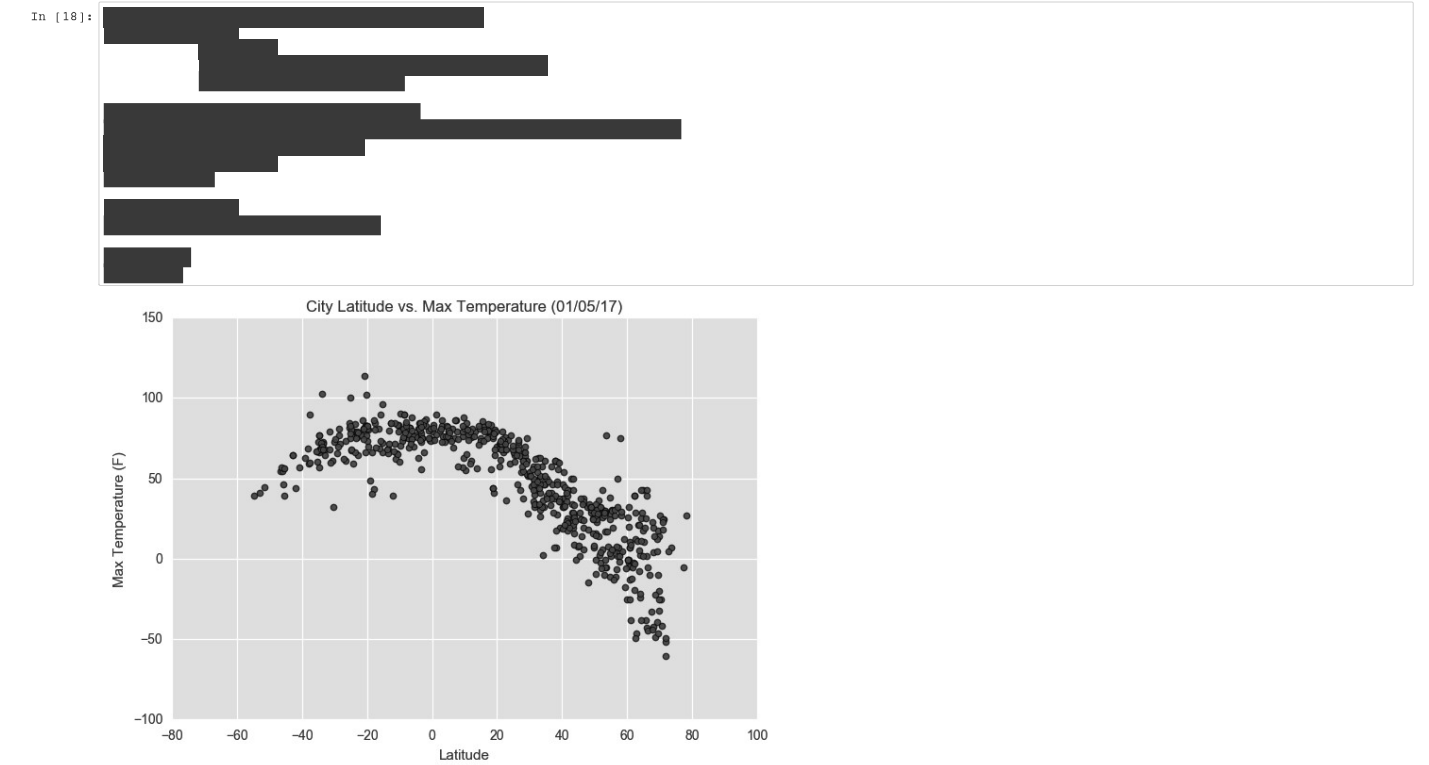
Latitude vs. Humidity Plot

In [19]:

City Latitude vs. Humidity (01/05/17)
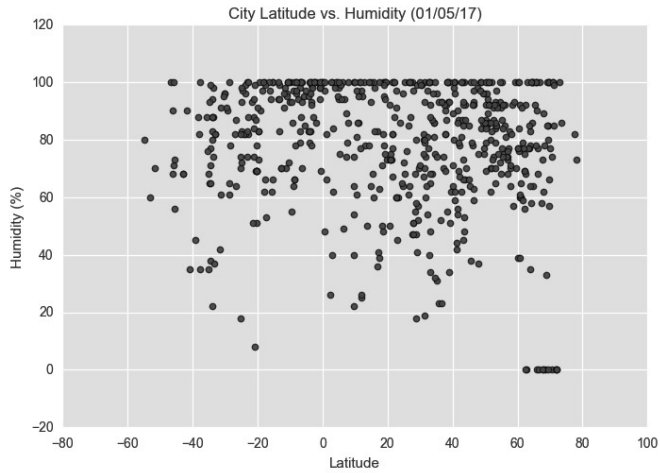
Latitude vs. Cloudiness Plot

In [20]:

City Latitude vs. Cloudiness (01/05/17)
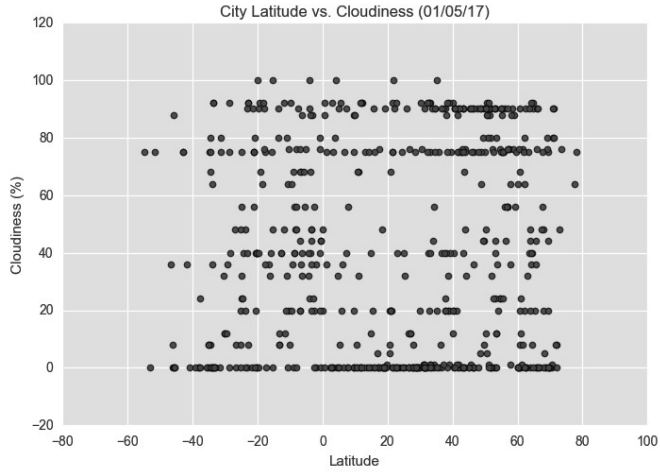
Latitude vs. Wind Speed Plot

In [21]:

City Latitude vs. Wind Speed (01/05/17)