In [2]:
```python
# importing Dependencies
import csv
import matplotlib.pyplot as plt
import requests as req
import pandas as pd
import openweathermapy.core as ow
from citipy import citipy
import random
```

In [3]:
```python
# apikey information
api_key = "25bc90a1196e6f153eece0bc0b0fc9eb"
url = "http://api.openweathermap.org/data/2.5/weather?"
units = "imperial"
```

In [4]:
```python
weather_json =[]

#reading the csv file
data_csv = "worldcities.csv"
num_lines = sum(1 for l in open(data_csv))

#randomly selecting 500 datas
size = int(num_lines / 93.4)
skip_idx = random.sample(range(1, num_lines), num_lines - size)
data = pd.read_csv(data_csv, skiprows=skip_idx)
for index, row in data.iterrows():
    latitude = data.iloc[index,2]
    longitude = data.iloc[index,3]
    query_url = f"{url}&units={units}&lat={latitude}&lon={longitude}&app
id={api_key}"
    response = req.get(query_url)

    req_data = response.json()
    weather_json.append(req_data)
    print(response.url)
```

```
http://api.openweathermap.org/data/2.5/weather?&units=imperial&lat=32.6
24131&lon=65.459659&appid=25bc90a1196e6f153eece0bc0b0fc9eb
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```

```
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```

```
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```

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```

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http://api.openweathermap.org/data/2.5/weather?&units=imperial&lat=41.4
875&lon=-82.1016667&appid=25bc90a1196e6f153eece0bc0b0fc9eb
http://api.openweathermap.org/data/2.5/weather?&units=imperial&lat=41.2
391667&lon=-81.34611109999999&appid=25bc90a1196e6f153eece0bc0b0fc9eb
http://api.openweathermap.org/data/2.5/weather?&units=imperial&lat=41.2
375&lon=-80.8186111&appid=25bc90a1196e6f153eece0bc0b0fc9eb
http://api.openweathermap.org/data/2.5/weather?&units=imperial&lat=34.7
7444439999999&lon=-96.6780556&appid=25bc90a1196e6f153eece0bc0b0fc9eb
http://api.openweathermap.org/data/2.5/weather?&units=imperial&lat=45.1
4388889999999&lon=-122.85416670000001&appid=25bc90a1196e6f153eece0bc0b0
fc9eb
http://api.openweathermap.org/data/2.5/weather?&units=imperial&lat=18.4
683333&lon=-66.1061111&appid=25bc90a1196e6f153eece0bc0b0fc9eb
http://api.openweathermap.org/data/2.5/weather?&units=imperial&lat=17.9
680556&lon=-66.4052778&appid=25bc90a1196e6f153eece0bc0b0fc9eb
http://api.openweathermap.org/data/2.5/weather?&units=imperial&lat=42.8
711111&lon=-97.3969444&appid=25bc90a1196e6f153eece0bc0b0fc9eb
http://api.openweathermap.org/data/2.5/weather?&units=imperial&lat=36.1
65833299999996&lon=-86.7844444&appid=25bc90a1196e6f153eece0bc0b0fc9eb
http://api.openweathermap.org/data/2.5/weather?&units=imperial&lat=32.7
35555600000005&lon=-97.1077778&appid=25bc90a1196e6f153eece0bc0b0fc9eb
http://api.openweathermap.org/data/2.5/weather?&units=imperial&lat=29.3
683333&lon=-94.97111109999999&appid=25bc90a1196e6f153eece0bc0b0fc9eb
http://api.openweathermap.org/data/2.5/weather?&units=imperial&lat=31.8
42222200000002&lon=-102.4983333&appid=25bc90a1196e6f153eece0bc0b0fc9eb
http://api.openweathermap.org/data/2.5/weather?&units=imperial&lat=37.1
305556&lon=-113.5075&appid=25bc90a1196e6f153eece0bc0b0fc9eb
http://api.openweathermap.org/data/2.5/weather?&units=imperial&lat=48.4
758333&lon=-122.3241667&appid=25bc90a1196e6f153eece0bc0b0fc9eb
http://api.openweathermap.org/data/2.5/weather?&units=imperial&lat=47.4
236111&lon=-120.30916670000002&appid=25bc90a1196e6f153eece0bc0b0fc9eb
http://api.openweathermap.org/data/2.5/weather?&units=imperial&lat=44.4
5638889999999&lon=-89.54388890000001&appid=25bc90a1196e6f153eece0bc0b0f
c9eb
http://api.openweathermap.org/data/2.5/weather?&units=imperial&lat=-32.
3666667&lon=-54.1833333&appid=25bc90a1196e6f153eece0bc0b0fc9eb
http://api.openweathermap.org/data/2.5/weather?&units=imperial&lat=8.93
44444&lon=-67.4266667&appid=25bc90a1196e6f153eece0bc0b0fc9eb
http://api.openweathermap.org/data/2.5/weather?&units=imperial&lat=8.12
2222200000001&lon=-63.549722200000005&appid=25bc90a1196e6f153eece0bc0b0
fc9eb
http://api.openweathermap.org/data/2.5/weather?&units=imperial&lat=10.3
5&lon=107.066667&appid=25bc90a1196e6f153eece0bc0b0fc9eb
```

```
http://api.openweathermap.org/data/2.5/weather?&units=imperial&lat=-23.
693394&lon=30.140015999999996&appid=25bc90a1196e6f153eece0bc0b0fc9eb
```
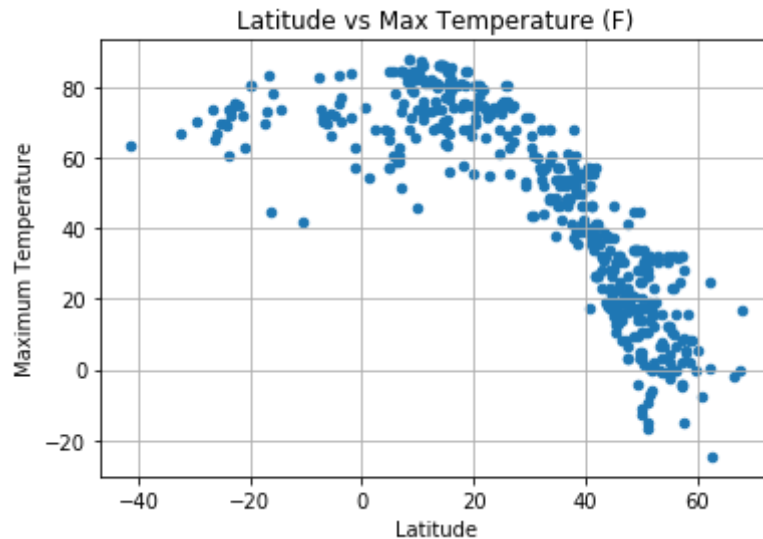
In [6]:
```python
# Extract interesting data from responses
city = [data.get("name") for data in weather_json]
country = [data.get("sys").get("country") for data in weather_json]
clouds = [data.get("clouds").get("all") for data in weather_json]
date = [data.get("dt")for data in weather_json]
humidity = [data.get("main").get("humidity") for data in weather_json]
lat_data = [data.get("coord").get("lat") for data in weather_json]
lon_data = [data.get("coord").get("lon") for data in weather_json]
temp_data = [data.get("main").get("temp_max") for data in weather_json]
wind_speed = [data.get("wind").get("speed") for data in weather_json]


weather_dict = {"City":city, "Country": country, "Cloudiness": clouds,
                "Date": date, "Humidity": humidity, "Maximum Temperatur
e": temp_data, "Latitude": lat_data,
                "Longitude": lon_data, "Wind Speed": wind_speed}
weather_df = pd.DataFrame(weather_dict)
weather_df.head()
```
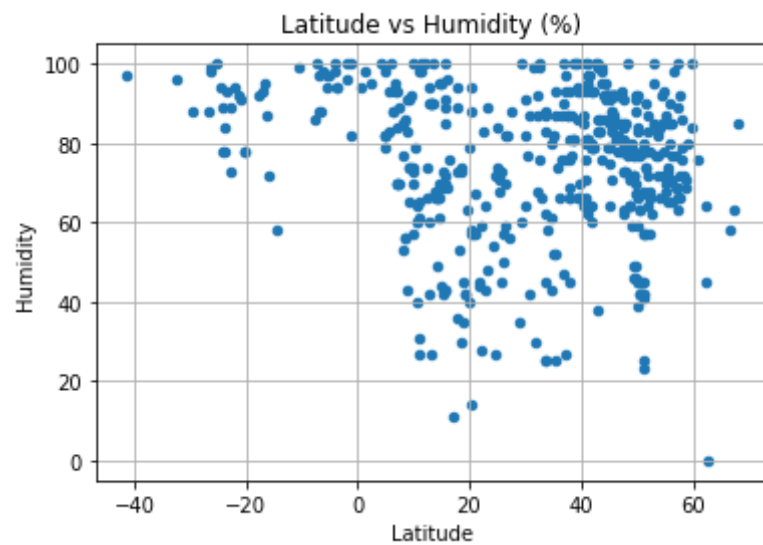
Out[6]:

	City	Cloudiness	Country	Date	Humidity	Latitude	Longitude	Maxim Temperat
0	De Narkhel Kelay	88	AF	1519956559	99	32.62	65.46	44.10
1	Shibirghan	92	AF	1519956559	100	36.67	65.75	48.42
2	San Miguel de Tucuman	32	AR	1519952400	88	-26.82	-65.22	73.40
3	Maria Enzersdorf	75	AT	1519954200	85	48.10	16.28	21.20
4	Donja Dobrinja	92	BA	1519956560	91	44.95	18.30	22.01

```
In [7]: ax = weather_df.plot(kind="scatter",
                             x="Latitude",
                             y="Maximum Temperature",
                             marker="o",
                             title="Latitude vs Max Temperature (F)",
                             grid=True
                            );
```
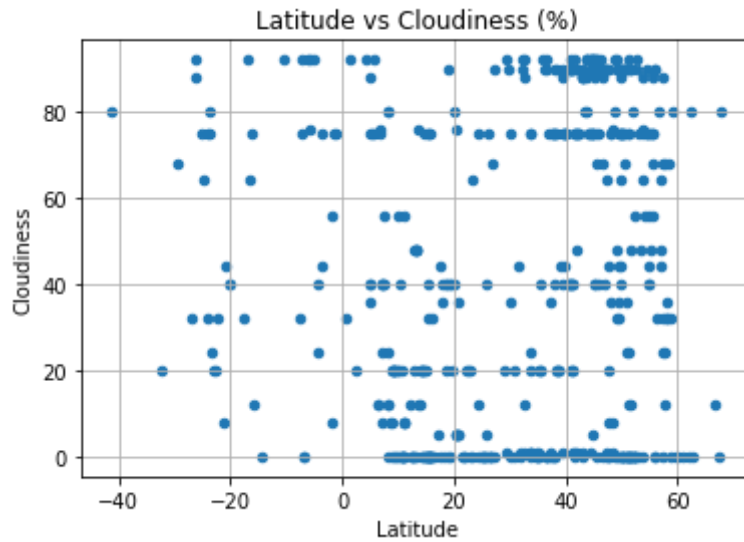


```
In [8]: bx = weather_df.plot(kind="scatter",
                             x="Latitude",
                             y="Humidity",
                             marker="o",
                             title="Latitude vs Humidity (%)",
                             grid=True
                            );
```

```
In [9]: cx = weather_df.plot(kind="scatter",
                             x="Latitude",
                             y="Cloudiness",
                             marker="o",
                             title="Latitude vs Cloudiness (%)",
                             grid=True
                             );
```

Latitude vs Cloudiness (%)


```
In [10]: dx = weather_df.plot(kind="scatter",
                              x="Latitude",
                              y="Wind Speed",
                              marker="o",
                              title="Latitude vs Wind Speed (mph)",
                              grid=True
                              );
```

Latitude vs Wind Speed (mph)