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


from google.colab import files
upload=files.upload()
```

```
Choose Files No file chosen  Upload widget is only available when the cell has been executed in the current
browser session. Please rerun this cell to enable.
Saving airports.csv to airports (1).csv
```

```
df=pd.read_csv("/content/airports.csv")


df.continent.unique()
```

```
array([nan, 'OC', 'AF', 'AN', 'EU', 'AS', 'SA'], dtype=object)
```

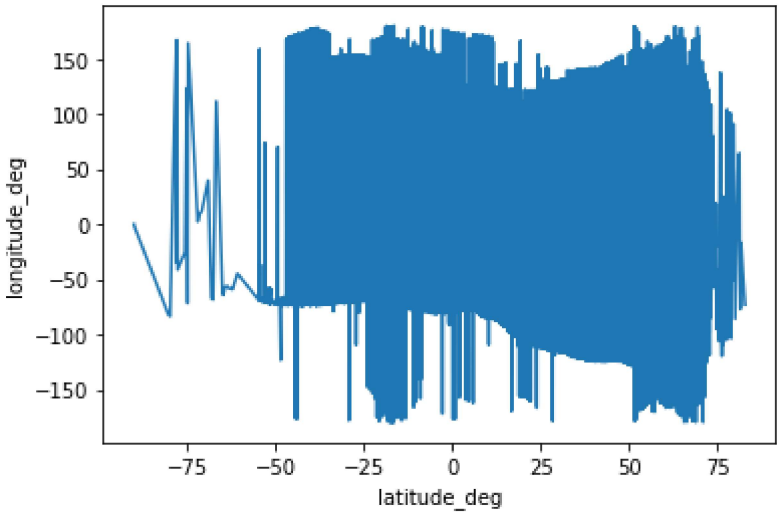
```
df=df.replace("no",0)
df=df.replace("yes",1)
#df = df.drop(['continent'],axis=1)
print(df.tail())
```

```
            id    ident          type                      name  \
67307    46378  ZZ-0001     heliport          Sealand Helipad
67308   307326  ZZ-0002  small_airport  Glorioso Islands Airstrip
67309   346788  ZZ-0003  small_airport     Fainting Goat Airport
67310   342102     ZZZW         closed    Scandium City Heliport
67311   313629     ZZZZ  small_airport    Satsuma Iōjima Airport

       latitude_deg  longitude_deg  elevation_ft continent iso_country  \
67307     51.894444       1.482500          40.0        EU          GB
67308    -11.584278      47.296389          11.0        AF          TF
67309     32.110587     -97.356312         690.0       NaN          US
67310     69.355287    -138.939310           4.0       NaN          CA
67311     30.784722     130.270556         338.0        AS          JP

      iso_region         municipality  scheduled_service gps_code iata_code  \
67307     GB-ENG             Sealand                  0      NaN       NaN
67308     TF-U-A    Grande Glorieuse                  0      NaN       NaN
67309      US-TX               Blum                    0     87TX       NaN
67310      CA-YT  (Old) Scandium City                  0     ZZZW       ZYW
67311      JP-46             Mishima                   0     RJX7       NaN

      local_code                   home_link  \
67307        NaN  http://www.sealandgov.org/
67308        NaN                         NaN
67309       87TX                         NaN
67310       YK96                         NaN
67311       RJX7                         NaN

                                        wikipedia_link              keywords
67307  https://en.wikipedia.org/wiki/Principality_of_...  Roughs Tower Helipad
67308                                                NaN                   NaN
67309                                                NaN                   NaN
```

```
67310                                                NaN                    NaN
67311  http://wikimapia.org/6705190/Satsuma-Iwo-jima-...  SATSUMA,IWOJIMA,RJX7
```

```
sns.lineplot(df['latitude_deg'],df['longitude_deg'])
plt.show()
```

```
/usr/local/lib/python3.7/dist-packages/seaborn/_decorators.py:43: FutureWarning: Pass
  FutureWarning
```




```
print(df.shape)
n = len(pd.unique(df['name']))
d=len(pd.unique(df['type']))
print("name",n,"type",d)
df['scheduled_service'].value_counts()
```

```
(67312, 18)
name 63826 type 7
0    63228
1     4084
Name: scheduled_service, dtype: int64
```

```
import plotly.express as px
```

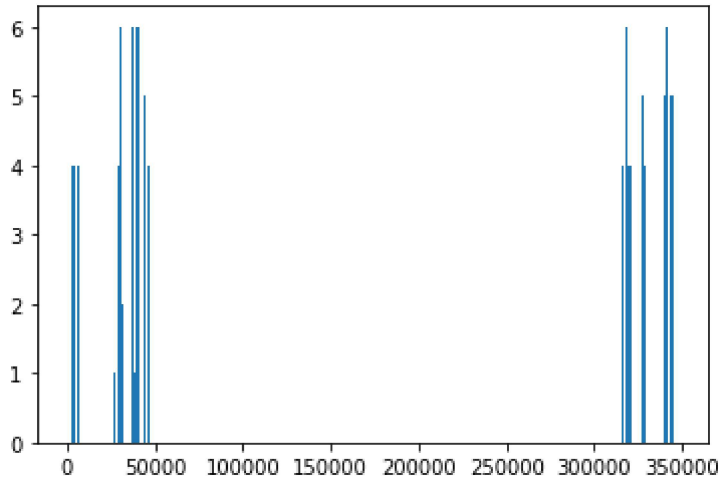
```
plt.scatter(x=df['latitude_deg'], y=df['longitude_deg'])
plt.show()
```


```
df=df.replace('NaN',0)
df=df.replace('OC',1)
df=df.replace('AF',2)
df=df.replace('AN',3)
df=df.replace('EU',4)
df=df.replace('AS',5)
df=df.replace('SA',6)
print(df)
```

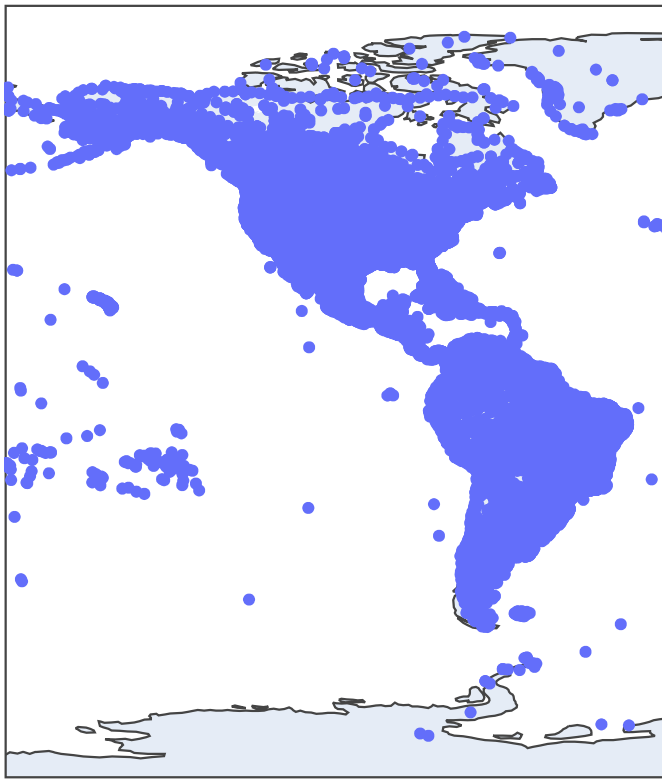
```
            id    ident           type                                name  \
0         6523      00A       heliport                   Total Rf Heliport
1       323361     00AA  small_airport                  Aero B Ranch Airport
2         6524     00AK  small_airport                          Lowell Field
3         6525     00AL  small_airport                          Epps Airpark
4         6526     00AR         closed  Newport Hospital & Clinic Heliport
...        ...      ...            ...                                 ...
67307    46378  ZZ-0001       heliport                     Sealand Helipad
67308   307326  ZZ-0002  small_airport            Glorioso Islands Airstrip
67309   346788  ZZ-0003  small_airport                Fainting Goat Airport
67310   342102     ZZZW         closed               Scandium City Heliport
67311   313629     ZZZZ  small_airport               Satsuma Iōjima Airport

       latitude_deg  longitude_deg  elevation_ft  continent iso_country  \
0         40.070801     -74.933601          11.0        NaN          US
1         38.704022    -101.473911        3435.0        NaN          US
2         59.947733    -151.692524         450.0        NaN          US
3         34.864799     -86.770302         820.0        NaN          US
4         35.608700     -91.254898         237.0        NaN          US
...             ...            ...           ...        ...         ...
67307     51.894444       1.482500          40.0        4.0          GB
67308    -11.584278      47.296389          11.0        2.0          TF
67309     32.110587     -97.356312         690.0        NaN          US
67310     69.355287    -138.939310           4.0        NaN          CA
67311     30.784722     130.270556         338.0        5.0          JP

      iso_region         municipality  scheduled_service gps_code iata_code  \
0          US-PA             Bensalem                  0      00A       NaN
1          US-KS                Leoti                  0     00AA       NaN
2          US-AK         Anchor Point                  0     00AK       NaN
3          US-AL              Harvest                  0     00AL       NaN
4          US-AR              Newport                  0      NaN       NaN
...          ...                  ...                ...      ...       ...
67307     GB-ENG              Sealand                  0      NaN       NaN
67308     TF-U-A     Grande Glorieuse                  0      NaN       NaN
67309      US-TX                 Blum                  0     87TX       NaN
67310      CA-YT  (Old) Scandium City                  0     ZZZW       ZYW
67311      JP-46              Mishima                  0     RJX7       NaN

      local_code                   home_link  \
0            00A                         NaN
1           00AA                         NaN
2           00AK                         NaN
3           00AL                         NaN
4            NaN                         NaN
...          ...                         ...
```

```
67307        NaN  http://www.sealandgov.org/
67308        NaN                         NaN
67309       87TX                         NaN
67310       YK96                         NaN
67311       RJX7                         NaN

                                   wikipedia_link keywords
0                                             NaN      NaN
1                                             NaN      NaN
2                                             NaN      NaN
3                                             NaN      NaN
```

```
plt.bar(df['id'],df['continent'])
plt.show()
```




```
import plotly.express as px
fig = px.scatter_geo(df,lat='latitude_deg',lon='longitude_deg', hover_name="iso_country")
fig.show()
```



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