

GRIP:The Spark Foundation

Data Science and Bussiness Analytics Intern

Author : Shalaka Patel

Task 4: Exploratory Data Analysis- Terrorism

Importing the required Libraries

```
In [1]: import numpy as np
import pandas as pd
import matplotlib.pyplot as plt
import seaborn as sns
import warnings
warnings.filterwarnings("ignore")

Loading Dataset

In [2]: df = pd.read_csv("C:/Users/DELL/OneDrive/Desktop/Global_Terrorism.csv",encoding='latin1')
print('Importing Data Successfully')

Importing Data Successfully

In [3]: df.head()

Out[3]:
   eventid  year  month  iday  approxdate  extended  country  country_txt  region  ...  addnotes  scite1  scite2  dsource  INT_LOG  INT_IDEO  INT_MISC  INT_ANY  related
0  137000e+11  1970    7     2         NaN      0      NaN      Dominican Republic  2  ...  NaN      NaN      NaN      NaN      PGIS      0      0      0      0      NaN
1  137000e+11  1970    0     0         NaN      0      NaN      Mexico  1  ...  NaN      NaN      NaN      NaN      PGIS      0      1      1      1      NaN
2  137000e+11  1970    1     0         NaN      0      NaN      Philippines  5  ...  NaN      NaN      NaN      NaN      PGIS      -9      -9      1      1      NaN
3  137000e+11  1970    0     0         NaN      0      NaN      Greece  8  ...  NaN      NaN      NaN      NaN      PGIS      -9      -9      1      1      NaN
4  137000e+11  1970    1     0         NaN      0      NaN      Japan  4  ...  NaN      NaN      NaN      NaN      PGIS      -9      -9      1      1      NaN

5 rows x 135 columns

In [4]: df.shape

Out[4]: (181891, 135)

In [5]: mul = []
for i in df.columns:
    if df[i].isna().sum()!=0:
        mul.append(i)

len(mul)

Out[5]: 186

In [6]: df.info()

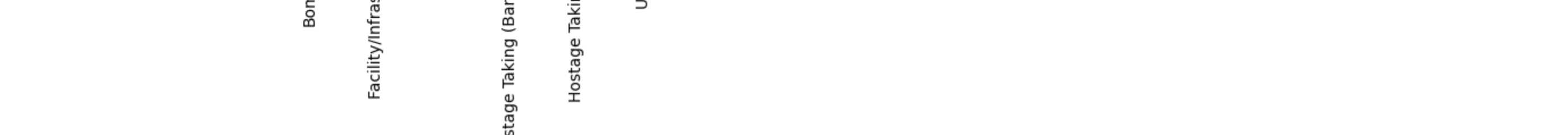
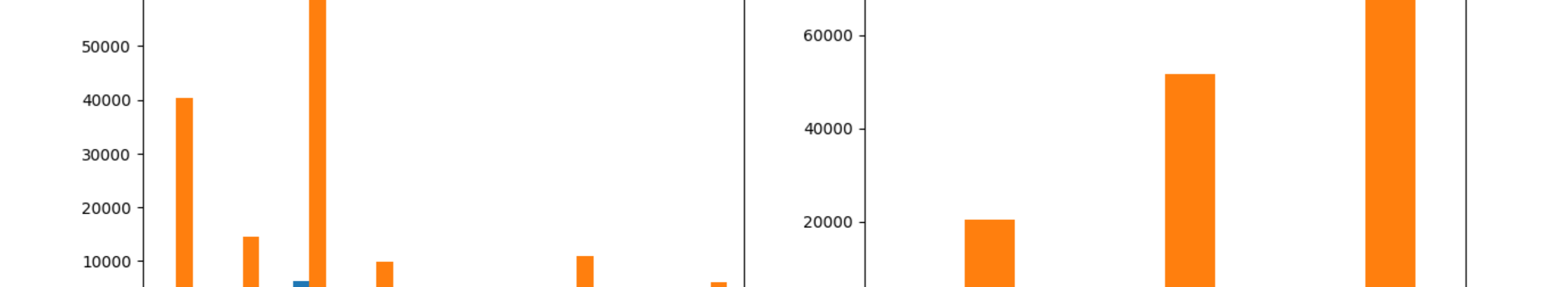
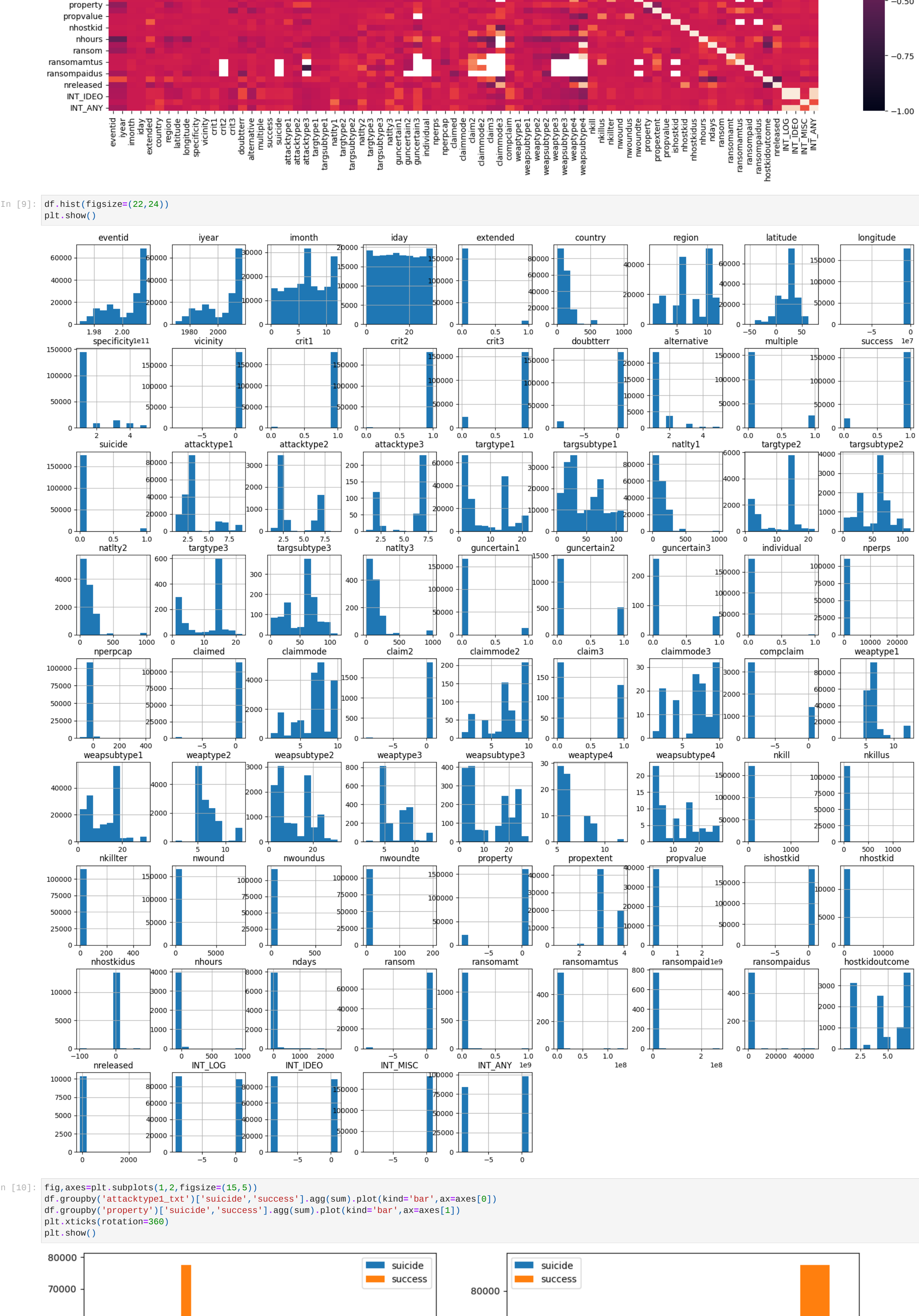
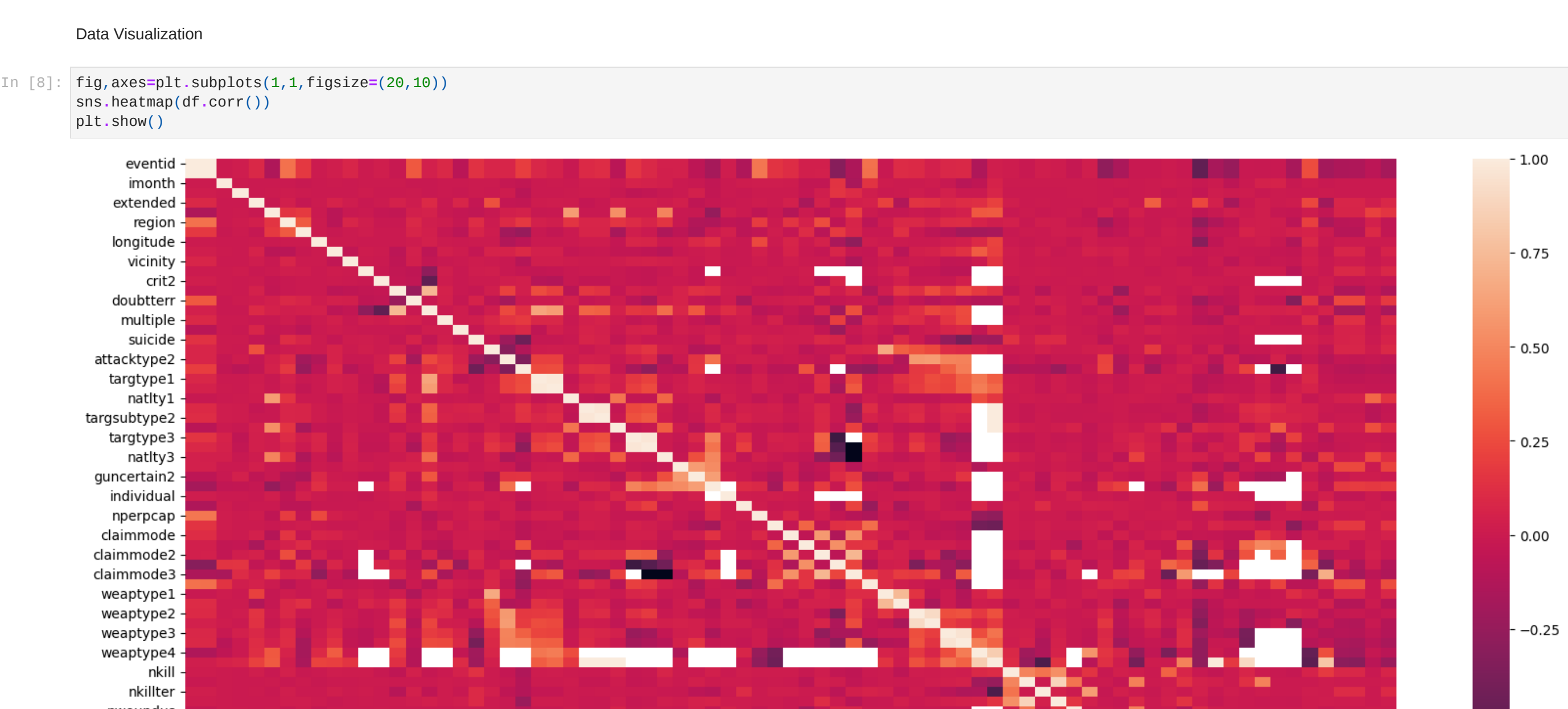
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 181891 entries, 0 to 181890
Columns: 135 entries, eventid to related
dtypes: float64(56), int64(21), object(58)
memory usage: 287.1 MB

In [7]: df.describe()

Out[7]:
   eventid      year      month      iday      extended      country      region      latitude      longitude      specificity  ...  ransomamt  ransomamtus  ransompaid  rs
count  1.818910e+05  181691.000000  181691.000000  181691.000000  181691.000000  181691.000000  181691.000000  177136.000000  1.771360e+05  181695.000000  ...  1.350000e+03  5.630000e+02  7.740000e+02
mean  2.002704e+11  2002.638997   6.467277   15.506644   0.045346  131.969501   7.160638  -4.586957e+02  1.451452  ...  3.172530e+06  5.784865e+05  7.179437e+05
std  1.329595e+09   13.259430   3.388303   8.814045   0.208063  112.414035   2.932408  18.569242  2.047790e+05  0.995430  ...  3.021157e+07  7.077924e+06  1.014392e+07
min  1.570000e+11  1970.000000   0.000000   0.000000   0.000000   4.000000   1.000000  -53.154613  -8.618590e+07  1.000000  ...  0.000000e+00  0.000000e+00  -9.900000e+01
25%  1.991020e+11  1991.000000   4.000000   8.000000   0.000000   78.000000   5.000000  -11.510346  4.545640e+00  1.000000  ...  0.000000e+00  0.000000e+00  -9.900000e+01
50%  2.009030e+11  2000.000000   6.000000   15.000000   0.000000   98.000000   6.000000  31.467463  4.324651e+01  1.000000  ...  1.500000e+04  0.000000e+00  0.000000e+00
75%  2.024040e+11  2014.000000   8.000000   23.000000   0.000000   100.000000  10.000000  64.685087  6.871033e+01  1.000000  ...  4.000000e+05  0.000000e+00  1.273412e+03
max  2.017120e+11  2017.000000  12.000000  31.000000  1.000000  1054.000000  32.000000  74.633953  1.793667e+02  5.000000  ...  1.000000e+09  1.320000e+08  2.750000e+08

8 rows x 77 columns
```

Data Visualization

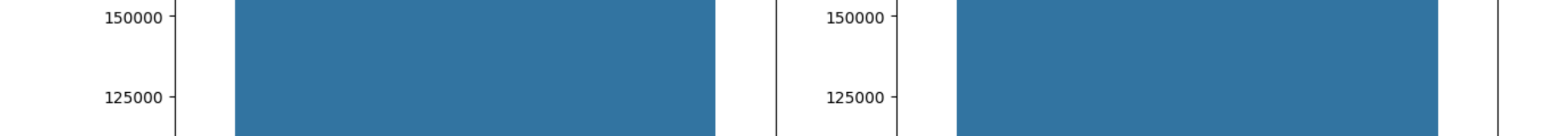
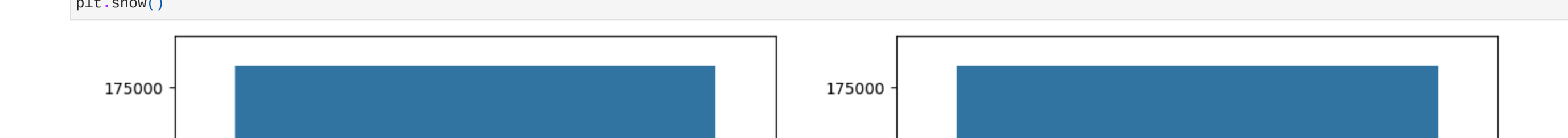


Countries Affected By Terrorist Attacks

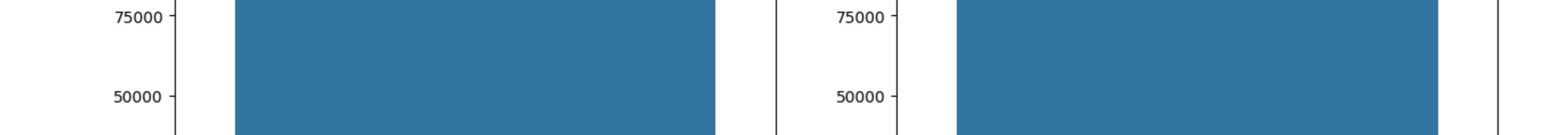


From above graph we can see that cities like Baghdad,Karachi,Mosul are more attacks happened.

Number of Attacks From Year 1970 To 2017



Attacks Targets



From above Graph we found that,Private citizens & Property get more affected by terrorism.

Conclusion

Most Number of attacks were done by unknown group. There is growth in terrorist attacks from 1997 to 1981 & from 2005 to 2014. Business and Private Citizens & property were most targeted during terrorist attacks. Bombing/Explosion is most used type for terrorist attack. Middle East & North Africa is most affected by terrorism. Iraq is most attacked country on planet Earth. Terrorist organisation name Taliban holds highest attacks.