LETS GROW MORE DATA SCIENCE

DATA ANALYSIS ON TERRORISM DATASET

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TASK 2

[1]:
```
import numpy as np
import pandas as pd
import matplotlib as mp
%matplotlib inline
import matplotlib.pyplot as plt
import seaborn as sns
%matplotlib inline
from mpl_toolkits.mplot3d import *
data.info()
```

```
RangeIndex: 181691 entries, 0 to 181690
Data columns (total 135):
 eventid  iyear  imonth  iday  approxdate  extended  resolution  country  country_txt  region  ...
0 197000000001  1970  7  2  NaT  0  NaT  58  Dominican Republic  2  ...
1 197000000002  1970  0  0  NaT  0  NaT  130  Mexico  1  ...
2 197001000001  1970  1  0  NaT  0  NaT  160  Philippines  5  ...
3 197001000002  1970  1  0  NaT  0  NaT  78  Greece  8  ...
4 197001000003  1970  1  0  NaT  0  NaT  101  Japan  4  ...
```

[2]:
```
data.columns.values
```

[2]:
```
array([ 'eventid', 'iyear', 'imonth', 'iday', 'approxdate',
       'extended', 'resolution', 'country', 'country_txt',
       'region', 'region_txt', 'provstate', 'city',
       'latitude', 'longitude', 'specificity', 'vicinity',
       'location', 'summary', 'crit1', 'crit2', 'crit3',
       'doubtterr', 'alternative', 'alternative_txt',
       'multinat', 'large', 'large_txt', 'targtype1',
       'targtype1_txt', 'targsubtype1', 'targsubtype1_txt',
       'corp1', 'target1', 'natlty1', 'natlty1_txt',
       'targtype2', 'targtype2_txt', 'targsubtype2',
       'targsubtype2_txt', 'corp2', 'target2', 'natlty2',
       'natlty2_txt', 'targtype3', 'targtype3_txt',
       'targsubtype3', 'targsubtype3_txt', 'corp3',
       'target3', 'natlty3', 'natlty3_txt', 'gtd35',
       'attack', 'success', 'suicide', 'weapnum',
       'weaptype1', 'weaptype1_txt', 'weapsubtype1',
       'weapsubtype1_txt', 'weapdetail', 'nkill',
       'nkillus', 'nkillter', 'nwound', 'nwoundus',
       'nwoundter', 'property', 'ransom', 'ransomamt',
       'ransomamtus', 'ransomdur', 'ransomout',
       'hostkidnap', 'nhostkidus', 'nhours', 'ndays',
       'divert', 'kidhijacked', 'ransomeq', 'hostkidoth',
       'nreleased', 'addnotes', 'scite1', 'scite2',
       'scite3', 'dbsource', 'INT_LOG', 'INT_IDEO',
       'INT_MISC', 'INT_ANY', 'related'],
      dtype=object)
```

[3]:
```
data.shape
```

[3]:
```
(181691, 135)
```

[4]:
```
data.dtypes.value_counts()
```

[4]:
```
float64    55
int64      22
object     58
bool        2
dtype: int64
```

[5]:
```
data.isnull().sum()
```

[5]:
```
eventid            0
iyear              0
imonth             0
iday               0
approxdate    153640
extended           0
resolution    179627
country            0
country_txt        0
region             0
region_txt         0
provstate        421
city             434
latitude        4606
longitude       4606
specificity        0
vicinity           0
location       66135
summary        45911
crit1              0
crit2              0
crit3              0
doubtterr        533
alternative    175578
alternative_txt
multinat           0
large              0
large_txt          0
targtype1          0
targtype1_txt      0
targsubtype1   14730
targsubtype1_txt
corp1          14731
target1        14731
natlty1        15284
natlty1_txt
targtype2          0
targtype2_txt      0
targsubtype2  154746
targsubtype2_txt
corp2         154746
target2       154746
natlty2       156780
natlty2_txt
targtype3          0
targtype3_txt      0
targsubtype3  177449
targsubtype3_txt
corp3         177449
target3       177449
natlty3       178671
natlty3_txt
gtd35              0
attack             0
success            0
suicide            0
weapnum            0
weaptype1          0
weaptype1_txt      0
weapsubtype1   29404
weapsubtype1_txt
weapdetail     90488
nkill          10313
nkillus        75799
nkillter       75799
nwound         19986
nwoundus       96320
nwoundter      96320
property           0
ransom             0
ransomamt     179503
ransomamtus   179351
ransomdur     179486
ransomout     179486
hostkidnap     10991
nhostkidus     10991
nhours         ...
```

[6]:
```
data.head()
```

[6]:

| | eventid | iyear | imonth | iday | approxdate | extended | resolution | country | country_txt | region | region_txt | provstate | city | latitude | longitude | specificity | vicinity | location | summary | crit1 | crit2 | crit3 | doubtterr | alternative | alternative_txt | multinat | large | large_txt | targtype1 | targtype1_txt | targsubtype1 | targsubtype1_txt | corp1 | target1 | natlty1 | natlty1_txt | targtype2 | targtype2_txt | targsubtype2 | targsubtype2_txt | corp2 | target2 | natlty2 | natlty2_txt | targtype3 | targtype3_txt | targsubtype3 | targsubtype3_txt | corp3 | target3 | natlty3 | natlty3_txt | gtd35 | attack | success | suicide | weapnum | weaptype1 | weaptype1_txt | weapsubtype1 | weapsubtype1_txt | weapdetail | nkill | nkillus | nkillter | nwound | nwoundus | nwoundter | property | ransom | ransomamt | ransomamtus | ransomdur | ransomout | hostkidnap | nhostkidus | nhours | ndays | divert | kidhijacked | ransomeq | hostkidoth | nreleased | addnotes | scite1 | scite2 | scite3 | dbsource | INT_LOG | INT_IDEO | INT_MISC | INT_ANY | related |
|---|---|---