

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

```
Terror=pd.read_csv('/content/globalterrorism.csv.zip' ,
on_bad_lines='skip' , encoding='latin')
pd.set_option("display.max_columns",500) #max coulmns
```

```
<ipython-input-13-916a3d75092d>:1: DtypeWarning: Columns
(4,6,31,33,61,62,63,76,79,90,92,94,96,114,115,121) have mixed types.
Specify dtype option on import or set low_memory=False.
```

```
Terror=pd.read_csv('/content/globalterrorism.csv.zip' ,
on_bad_lines='skip' , encoding='latin')
```

```
Terror.shape
```

```
(181691, 135)
```

```
Terror.head(1)
```

	eventid	iyear	imonth	iday	approxdate	extended	resolution
country \							
0	1.970000e+11	1970	7	2	NaN	0	NaN

	country_txt	region	region_txt
provstate \			
0	Dominican Republic	2	Central America & Caribbean

	city	latitude	longitude	specificity	vicinity	location
\						
0	Santo Domingo	18.456792	-69.951164	1.0	0	NaN

	summary	crit1	crit2	crit3	doubtterr	alternative	alternative_txt
\							
0	NaN	1	1	1	0.0	NaN	NaN

	multiple	success	suicide	attacktype1	attacktype1_txt
attacktype2 \					
0	0.0	1	0	1	Assassination

	attacktype2_txt	attacktype3	attacktype3_txt	targtype1	\
0	NaN	NaN	NaN	14	

	targtype1_txt	targsubtype1	targsubtype1_txt	corp1	\
0	Private Citizens & Property	68.0	Named Civilian	NaN	

	target1	natlty1	natlty1_txt	targtype2	targtype2_txt	\
0	Julio Guzman	58.0	Dominican Republic	NaN	NaN	

	targsubtype2	targsubtype2_txt	corp2	target2	natlty2	natlty2_txt	\
0	NaN	NaN	NaN	NaN	NaN	NaN	

	targtype3	targtype3_txt	targsubtype3	targsubtype3_txt	corp3	target3	\
0	NaN	NaN	NaN	NaN	NaN	NaN	
NaN							

	natlty3	natlty3_txt	gname	gsubname	gname2	gsubname2	gname3	gsubname3	\
0	NaN	NaN	MANO-D	NaN	NaN	NaN	NaN	NaN	
NaN									

	motive	guncertain1	guncertain2	guncertain3	individual	nperps	nperpcap	\
0	NaN	0.0	NaN	NaN	0	NaN	NaN	
NaN								

	claimed	claimmode	claimmode_txt	claim2	claimmode2	claimmode2_txt	\
0	NaN	NaN	NaN	NaN	NaN	NaN	

	claim3	claimmode3	claimmode3_txt	compclaim	weaptype1	weaptype1_txt	\
0	NaN	NaN	NaN	NaN	13	Unknown	

	weapsubtype1	weapsubtype1_txt	weaptype2	weaptype2_txt	weapsubtype2	\
0	NaN	NaN	NaN	NaN	NaN	
NaN						

	weapsubtype2_txt	weaptype3	weaptype3_txt	weapsubtype3	weapsubtype3_txt	\
0	NaN	NaN	NaN	NaN	NaN	
NaN						

	weaptype4	weaptype4_txt	weapsubtype4	weapsubtype4_txt	weapdetail	nkill	\
0	NaN	NaN	NaN	NaN	NaN	NaN	
1.0							

	nkillus	nkillter	nwound	nwoundus	nwoundte	property	propextent
\							
0	NaN	NaN	0.0	NaN	NaN	0	NaN

	propextent_txt	propvalue	propcomment	ishostkid	nhostkid
nhostkidus \					
0	NaN	NaN	NaN	0.0	NaN
NaN					

	nhours	ndays	divert	kidhijcountry	ransom	ransomamt	ransomamtus
\							
0	NaN	NaN	NaN	NaN	0.0	NaN	NaN

	ransompaid	ransompaidus	ransomnote	hostkidoutcome
hostkidoutcome_txt \				
0	NaN	NaN	NaN	NaN
NaN				

	nreleased	addnotes	scite1	scite2	scite3	dbsource	INT_LOG	INT_IDEO
\								
0	NaN	NaN	NaN	NaN	NaN	PGIS	0	0

	INT_MISC	INT_ANY	related
0	0	0	NaN

```
cols=['iyear','imonth','iday','country_txt','city','latitude',
      'longitude','location','attacktype1_txt','targettype1_txt','targetsubtype1_txt','target1',
      'gname','motive','weaptype1_txt','dbsource','region_txt','nkill','nwound','natlty1_txt','weapdetail']
```

```
Terror_clean=pd.DataFrame(data=Terror , columns=cols)
```

```
Terror_clean.shape
```

```
(181691, 21)
```

```
Terror_clean.isnull().sum()
```

iyear	0
imonth	0
iday	0
country_txt	0
city	434

```

latitude          4556
longitude         4557
location         126196
attacktype1_txt   0
targetype1_txt    0
targetsubtype1_txt 10373
target1          636
gname            0
motive          131130
weaptype1_txt    0
dbsource         0
region_txt       0
nkill           10313
nwound          16311
natlty1_txt      1559
weapdetail       67670
dtype: int64

```

```
Terror_clean.head(2)
```

```

   iyear  imonth  iday      country_txt      city
latitude \
0   1970      7     2  Dominican Republic  Santo Domingo  18.456792
1   1970      0     0           Mexico    Mexico city  19.371887

```

```

   longitude location      attacktype1_txt \
0  -69.951164     NaN      Assassination
1  -99.086624     NaN  Hostage Taking (Kidnapping)

```

```

   targetype1_txt \
0  Private Citizens & Property
1    Government (Diplomatic)

```

```

   targetsubtype1_txt
target1 \
0           Named Civilian      Julio
Guzman
1  Diplomatic Personnel (outside of embassy, cons...  Nadine Chaval,
daughter

```

```

   gname motive weaptype1_txt dbsource \
0      MANO-D      NaN      Unknown      PGIS
1  23rd of September Communist League      NaN      Unknown      PGIS

```

```

   region_txt  nkill  nwound      natlty1_txt
weapdetail
0  Central America & Caribbean      1.0      0.0  Dominican Republic
NaN

```

```
1 North America 0.0 0.0 Belgium
NaN
```

```
Terror_clean.rename(columns={'iyear':'year' ,
'imshow':'month' , 'iday':'day', 'country_txt':'country
name', 'attacktype1_txt':'attacktype', 'targetype1_txt':'targetype', 'targs
ubtype2':'targsubtype2',
```

```
'gname':'group_name', 'weaptype1_txt':'weaptype', 'dbsource':'source', 'r
egion_txt':'region1', 'nkill':'Killed', 'nwound':'Wounded', 'weapdetail':
'weapon_detail', 'natlty1_txt':'nationality'
} , inplace=True)
```

```
pd.set_option("display.max_columns",500) #max coulms
```

```
Terror_clean.head(1)
```

```
year month day country name city latitude
longitude \
0 1970 7 2 Dominican Republic Santo Domingo 18.456792 -
69.951164
```

```
location attacktype targetype
targsubtype1_txt \
0 NaN Assassination Private Citizens & Property Named
Civilian
```

```
target1 group_name motive weaptype source \
0 Julio Guzman MANO-D NaN Unknown PGIS
```

```
region1 Killed Wounded nationality \
0 Central America & Caribbean 1.0 0.0 Dominican Republic
```

```
weapon_detail
0 NaN
```

```
Terror_clean['casualties']=Terror_clean['Wounded']
+Terror_clean['Killed']
```

```
Terror_clean.head(3)
```

```
year month day country name city latitude
longitude \
0 1970 7 2 Dominican Republic Santo Domingo 18.456792 -
69.951164
1 1970 0 0 Mexico Mexico city 19.371887 -
99.086624
2 1970 1 0 Philippines Unknown 15.478598
120.599741
```

```
location attacktype
```

```

targettype \
0      NaN      Assassination  Private Citizens & Property
1      NaN  Hostage Taking (Kidnapping)      Government (Diplomatic)
2      NaN      Assassination      Journalists & Media

                                targsubtype1_txt
target1 \
0      Named Civilian      Julio
Guzman
1  Diplomatic Personnel (outside of embassy, cons...  Nadine Chaval,
daughter
2      Radio Journalist/Staff/Facility
Employee

                                group_name motive weaptype source \
0      MANO-D      NaN  Unknown  PGIS
1  23rd of September Communist League      NaN  Unknown  PGIS
2      Unknown      NaN  Unknown  PGIS

                                region1  Killed  Wounded      nationality \
0  Central America & Caribbean      1.0      0.0  Dominican Republic
1      North America      0.0      0.0      Belgium
2      Southeast Asia      1.0      0.0      United States

weapon_detail  casualties
0      NaN      1.0
1      NaN      0.0
2      NaN      1.0

nationality_top = Terror_clean[Terror_clean['nationality'] !=
'Unknown']

nationality_type=nationality_top['nationality'].value_counts().reset_i
ndex()

nationality_type.rename(columns={"index":'Nationality','nationality':'
Counts'},inplace=True)
nationality_type

                                Nationality  Counts
0      Iraq      24113
1      Pakistan      13900
2      India      12098
3      Afghanistan      10931
4      Colombia      7922
..      ...      ...
210  People's Republic of the Congo      1
211      Saba (Netherlands Antilles)      1

```

212	Tuvalu	1
213	Western Sahara	1
214	Marshall Islands	1

[215 rows x 2 columns]

Terror_clean['nationality'].unique()

```
array(['Dominican Republic', 'Belgium', 'United States', 'Uruguay',
      'Germany', 'Great Britain', 'Venezuela', 'Puerto Rico',
      'Israel',
      'Austria', 'Switzerland', 'Jordan', 'Ethiopia', 'Spain', nan,
      'Japan', 'International', 'Egypt', 'Paraguay', 'Soviet Union',
      'Ireland', 'Argentina', 'Philippines', 'China',
      'West Bank and Gaza Strip', 'Multinational', 'Northern
Ireland',
      'Brazil', 'Haiti', 'South Africa', 'Portugal', 'Colombia',
      'Greece', 'Nicaragua', 'Indonesia', 'Yugoslavia', 'Italy',
      'Rhodesia', 'Ivory Coast', 'Iran', 'Canada', 'Poland',
      'Sweden',
      'Turkey', 'Costa Rica', 'Russia', 'Iraq', 'Cuba', 'France',
      'Malawi', 'Democratic Republic of the Congo', 'Netherlands',
      'Chile', 'Hong Kong', 'Yemen', 'Mexico', 'Syria', 'India',
      'New Zealand', 'Senegal', 'Algeria', 'Peru', 'Czechoslovakia',
      'Saudi Arabia', 'Denmark', 'West Germany (FRG)', 'Bahamas',
      'Bolivia', 'El Salvador', 'Botswana', 'Guatemala', 'Lebanon',
      'North Korea', 'Albania', 'South Korea', 'United Kingdom',
      'Pakistan', 'Kenya', 'Cyprus', 'Panama', 'Sri Lanka',
      'Ecuador',
      'Malaysia', 'Morocco', 'Somalia', 'Nigeria', 'Namibia',
      'Armenia',
      'Barbados', 'Kuwait', 'Mozambique', 'Guyana', 'Taiwan',
      'Tunisia',
      'Myanmar', 'Trinidad and Tobago', 'Mauritania', 'Bulgaria',
      'Thailand', 'Bahrain', 'Finland', 'Vietnam',
      'United Arab Emirates', 'Malta', 'Australia', 'Zimbabwe',
      'Zambia',
      'Angola', 'Norway', 'Jamaica', 'Uganda', 'Croatia', 'Lesotho',
      'Tanzania', 'Guinea', 'Fiji', 'Djibouti', 'Libya', 'Eritrea',
      'Afghanistan', 'Honduras', 'Zaire', 'Mali', 'Bangladesh',
      'Grenada', 'Vanuatu', 'Belize', 'North Yemen', 'Romania',
      'Sudan',
      'Chad', 'Central African Republic', 'Liberia', 'Seychelles',
      'Dominica', 'People's Republic of the Congo', 'Comoros',
      'Suriname', 'Vatican City', 'Lithuania', 'Guadeloupe',
      'Martinique', 'Western Sahara', 'Swaziland', 'Burkina Faso',
      'Man, Isle of', 'New Caledonia', 'Cambodia', 'Singapore',
      'Corsica', 'Luxembourg', 'Niger', 'Nepal', 'Hungary', 'Togo',
      'Iceland', 'Sinhalese', 'Ghana', 'Maldives', 'Mauritius',
      'Papua New Guinea', 'Qatar', 'Rwanda', 'Cameroon', 'Estonia',
```

```

'Sierra Leone', 'Latvia', 'Greenland', 'Bosnia-Herzegovina',
'Madagascar', 'Burundi', 'Azerbaijan', 'Kazakhstan', 'Georgia',
'Antigua and Barbuda', 'Commonwealth of Independent States',
'Ukraine', 'Moldova', 'Equatorial Guinea', 'Tajikistan',
'Laos',
'Brunei', 'Uzbekistan', 'Serbia-Montenegro',
'Republic of the Congo', 'Gabon', 'Slovak Republic',
'Macedonia',
'Mongolia', 'Benin', 'Belarus', 'Oman', 'Czech Republic',
'Gambia',
'Asian', 'Serbia', 'St. Kitts and Nevis', 'Kyrgyzstan',
'Macau',
'Slovenia', 'French Guiana', 'East Timor', 'Kosovo',
'Solomon Islands', 'St. Lucia', 'Guinea-Bissau', 'Montenegro',
'Bhutan', 'Bermuda', 'St. Martin', 'South Sudan',
'Turkmenistan',
'Saba (Netherlands Antilles)', 'Tuvalu', 'Virgin Islands
(U.S.)',
'Marshall Islands'], dtype=object)

```

```

terr= Terror_clean[Terror_clean['group_name'] != 'Unknown']
Terror_Group_Org=terr['group_name'].value_counts().reset_index()
Terror_Group_Org.rename(columns={"index":'Group_name', 'group_name': 'Counts'}, inplace=True)
Terror_Group_Org

```

	Group_name	Counts
0	Taliban	7478
1	Islamic State of Iraq and the Levant (ISIL)	5613
2	Shining Path (SL)	4555
3	Farabundo Marti National Liberation Front (FMLN)	3351
4	Al-Shabaab	3288
...
3531	Ansar Sarallah	1
3532	Sword of Islam	1
3533	Support of Ocalan-The Hawks of Thrace	1
3534	Arab Revolutionary Front	1
3535	MANO-D	1

[3536 rows x 2 columns]

Terror_clean.head(3)

	year	month	day	country	name	city	latitude	longitude \
0	1970	7	2	Dominican Republic	Santo Domingo	18.456792	-	69.951164
1	1970	0	0	Mexico	Mexico city	19.371887	-	99.086624
2	1970	1	0	Philippines	Unknown	15.478598		

120.599741

	location	attacktype
targetype \		
0	NaN	Assassination Private Citizens & Property
1	NaN	Hostage Taking (Kidnapping) Government (Diplomatic)
2	NaN	Assassination Journalists & Media

	targsubtype1_txt
target1 \	
0	Named Civilian Julio Guzman
1	Diplomatic Personnel (outside of embassy, cons... Nadine Chaval, daughter
2	Radio Journalist/Staff/Facility Employee

	group_name	motive	weaptype	source \
0	MANO-D	NaN	Unknown	PGIS
1	23rd of September Communist League	NaN	Unknown	PGIS
2	Unknown	NaN	Unknown	PGIS

	region1	Killed	Wounded	nationality \
0	Central America & Caribbean	1.0	0.0	Dominican Republic
1	North America	0.0	0.0	Belgium
2	Southeast Asia	1.0	0.0	United States

	weapon_detail	casualties
0	NaN	1.0
1	NaN	0.0
2	NaN	1.0

```
city1= Terror_clean[Terror_clean['city'] != 'Unknown']
```

```
city_cln=city1['city'].value_counts().reset_index()
```

```
city_cln.rename(columns={"index":'City_name','city':'Counts'},inplace=True)
```

```
city_cln
```

	City_name	Counts
0	Baghdad	7589
1	Karachi	2652
2	Lima	2359
3	Mosul	2265
4	Belfast	2171
...
36668	Hotwag	1
36669	Ostend	1

```
36670 Balughata      1
36671 Jikoyi         1
36672 Kubentog        1
```

```
[36673 rows x 2 columns]
```

```
wp=Terror_clean[Terror_clean['weaptype'] != 'Unknown']
weaptype_cln=wp['weaptype'].value_counts().reset_index()
weaptype_cln.rename(columns={"index": 'weapon_type', 'weaptype': 'Counts'
},inplace=True)
weaptype_cln
```

	weapon_type	Counts
0	Explosives	92426
1	Firearms	58524
2	Incendiary	11135
3	Melee	3655
4	Chemical	321
5	Sabotage Equipment	141
6	Vehicle (not to include vehicle-borne explosiv...	136
7	Other	114
8	Biological	35
9	Fake Weapons	33
10	Radiological	14

```
f, ax = plt.subplots(figsize=(15, 10))
ax = sns.barplot(x="Counts", y="Nationality",
data=nationality_type[:10],
palette="viridis").set_title('Nations Suffered Most
of the TARGET Attacks')
```

