## LetsGrowMore Nov2021 internship

## Task2: Exploratory Data Analysis on Dataset - Terrorism

Level :INTERMEDIATE LEVEL Language : Python Environment :jupyter notebook

181686 "Highlights: Somalia Daily Media Highlights 2 ...

```
In [1]:
         #import libraries
In [2]:
         import numpy as np
         import pandas as pd
         from matplotlib import pyplot as plt
         import seaborn as sns
In [3]:
        #load the data
In [4]:
        data=pd.read_csv("C:/Users/KORRA SRINU/Desktop/letsgrowmore/globalterrorism.csv")
        C:\Users\KORRA SRINU\anaconda3\lib\site-packages\IPython\core\interactiveshell.py:3165: 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.
        has raised = await self.run ast nodes(code ast.body, cell name,
In [5]:
        print(data)
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 In [6]:
           data.head()
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 In [7]:
           #rename the columns for the given the data
 In [8]:
           data.rename(columns={'iyear':'year','imonth':'month','iday':'day','country txt':'Country','region txt':'Region',
 In [9]:
           data.head()
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In [10]:
           data.columns
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181687

181688

"Two Russian soldiers killed at Hmeymim base i...

'addnotes', 'scite1', 'scite2', 'scite3', 'dbsource', 'INT\_LOG',
 'INT\_IDEO', 'INT\_MISC', 'INT\_ANY', 'related'],
dtype='object', length=135)

[11]:	data.	tail()													
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	181688	201712310030	2017	12	31	NaN	0	NaN	16	0 Philippines	5		NaN	"Maguindan clashes tr tri member Ph	rap lbe NaN rs,"
	181689	201712310031	2017	12	31	NaN	0	NaN	9:	2 India	6		NaN	"Tradescap grena attack Impha Bu	ees ide NaN ain
	181690	201712310032	2017	12	31	NaN	0	NaN	16	0 Philippines	5		NaN	"Secu tightened Cotaba following II	I in tigntened in ato
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data cleaning process(checking the data is NaN & Unknown)

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In [16]:
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           [181691 rows x 135 columns]>
In [20]:
            data['year'].value_counts()[:20]
Out[20]: 2014
                    16903
           2015
                    14965
                    13587
           2016
           2013
                    12036
```

In [15]: data.isnull()

2017

2012

2011

10900

8522

5076

Name: year, dtype: int64

Ιn	[21]	:	data.fillna	Θ,	١
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	1	197000000002	1970	0	0	0	0	0	130	Mexico	1		0	0	
	2	197001000001	1970	1	0	0	0	0	160	Philippines	5		0	0	
	3	197001000002	1970	1	0	0	0	0	78	Greece	8		0	0	(
	4	197001000003	1970	1	0	0	0	0	101	Japan	4		0	0	
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	181686	201712310022	2017	12	31	0	0	0	182	Somalia	11	•••	0	"Somalia: Al- Shabaab Militants Attack Army Che	"Highlights Somalia Daily Media Highlights 2
	181687	201712310029	2017	12	31	0	0	0	200	Syria	10		0	"Putin's 'victory' in Syria has turned into a 	"Two Russiar soldiers killed a Hmeymim base i
181	1688	201712310030	2017	12	31	0	0	0	160	Philippines	5		0	"Maguindanao clashes trap tribe members," Phil	(
181	689	201712310031	2017	12	31	0	0	0	92	India	6		0	"Trader escapes grenade attack in Imphal," Bus	0
1	81690	201712310032	2017	12	31	0	0	0	160	Philippines	5		0	"Security tightened in Cotabato following IED 	"Security tightened ir Cotabato City,' Manila
		rows × 135 col	umns												
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In [24]:
         data.isnull().sum()
Out[24]: eventid
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         day
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approxdate ... 0 0 INT\_LOG INT\_IDEO INT\_MISC INT ANY related Length: 135, dtype: int64

In [25]: data.isnull().sum(axis=1)

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Out[25]: 0
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                    88
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          181686
                    71
          181687
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          181689
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                    78
          181690
          Length: 181691, dtype: int64
In [29]:
           data.isna().sum()
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Out[29]: eventid
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          Length: 136, dtype: int64
In [30]:
           data.fillna(0,inplace=True
In [31]:
           data['wounded']=data['wounded'].fillna(0)
           data['killed']=data['killed'].fillna(0)
           data['Casualties']=data['killed']+data['wounded']
           data.head()
Out[31]:
                  eventid year month day approxdate extended resolution country
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In [32]:
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Out[32]: Iraq
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                              6096
          El Salvador
                              5320
          United Kingdom
                              5235
          Turkey
          Name: Country, dtype: int64
```

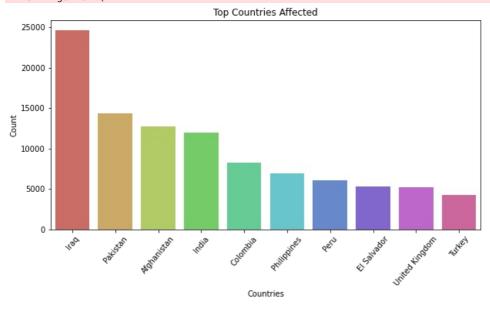
## after cleaning data

observing the data how the countries are effected by terroism

```
plt.subplots(figsize=(10,5))
sns.barplot(data['Country'].value_counts()[:10].index,data['Country'].value_counts()[:10].values,palette="hls")
plt.title("Top Countries Affected")
plt.xlabel("Countries")
plt.ylabel("Countries")
plt.ylabel("Count")
plt.xticks(rotation=50)
plt.show()
```

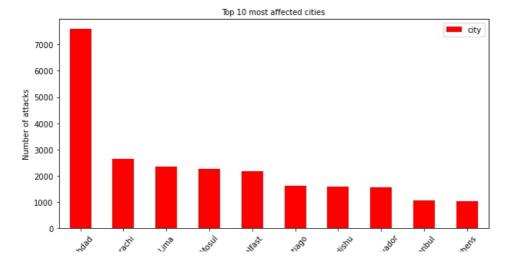
C:\Users\KORRA SRINU\anaconda3\lib\site-packages\seaborn\\_decorators.py:36: FutureWarning: Pass the following variables as keyword args: x, y. From version 0.12, the only valid positional argument will be `data`, and passing o ther arguments without an explicit keyword will result in an error or misinterpretation.

warnings.warn(



```
In [35]: data['Group_name'].value_counts()[:10]
```

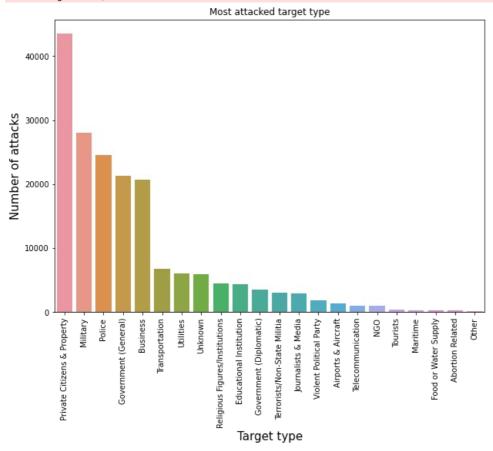
```
Out[35]: Unknown
                                                               82782
         Taliban
                                                                7478
         Islamic State of Iraq and the Levant (ISIL)
                                                                5613
         Shining Path (SL)
                                                                4555
         Farabundo Marti National Liberation Front (FMLN)
                                                                3351
         Al-Shabaab
                                                                3288
         New People's Army (NPA)
                                                                2772
         Irish Republican Army (IRA)
                                                                2671
         Revolutionary Armed Forces of Colombia (FARC)
                                                                2487
         Boko Haram
                                                                2418
         Name: Group_name, dtype: int64
```



```
City
```

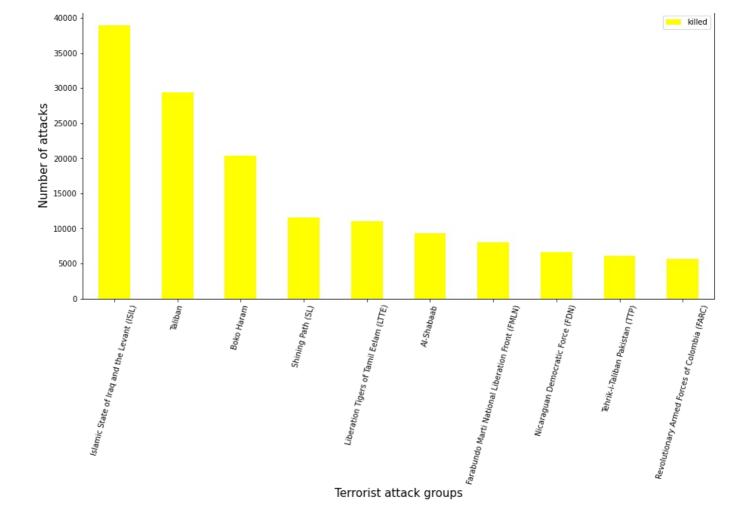
```
In [38]:
    plt.subplots(figsize=(10,7))
    sns.countplot(data.Target_type,order=data["Target_type"].value_counts().index);
    plt.title("Most attacked target type")
    plt.xticks(rotation=90)
    plt.xlabel("Target type",fontsize=15)
    plt.ylabel("Number of attacks",fontsize=15)
    plt.show()
```

C:\Users\KORRA SRINU\anaconda3\lib\site-packages\seaborn\\_decorators.py:36: FutureWarning: Pass the following var iable as a keyword arg: x. From version 0.12, the only valid positional argument will be `data`, and passing othe r arguments without an explicit keyword will result in an error or misinterpretation. warnings.warn(

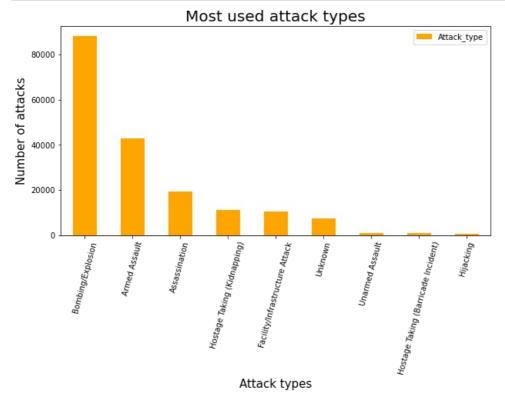


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1	197000000002	1970	0	0	0	0	0	130	Mexico	1		0	0	0	PGIS	
2	197001000001	1970	1	0	0	0	0	160	Philippines	5		0	0	0	PGIS	
3	197001000002	1970	1	0	0	0	0	78	Greece	8		0	0	0	PGIS	
4	197001000003	1970	1	0	0	0	0	101	Japan	4		0	0	0	PGIS	
t t	data[['Group_ blt.title("To blt.xlabel("T blt.ylabel("N blt.xticks(ro	p 10 error lumber	terror ist at of at	ist tack	groups",fo groups",f	ntsize=1 ontsize=	5)	is=0).S	um().drop	( 'Unkno	own	').sor	t_valu	es('ki	lled',aso	cendinç

Top 10 terrorist groups



```
data["Attack_type"].value_counts().to_frame().sort_values('Attack_type',ascending=False).plot(kind="bar",color="(
    plt.xticks(rotation=75)
    plt.xlabel("Attack types",fontsize=15)
    plt.ylabel("Number of attacks",fontsize=15)
    plt.title("Most used attack types",fontsize=20)
    plt.show()
```

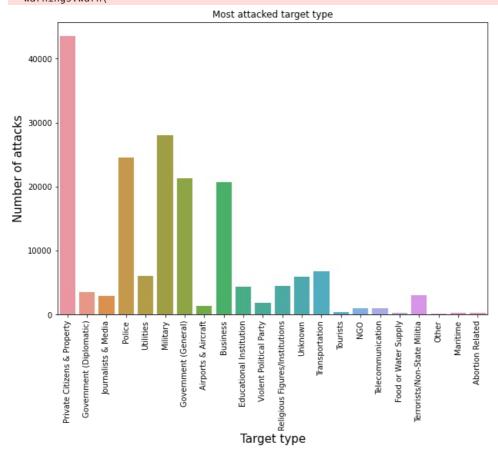


```
In [45]:
    plt.subplots(figsize=(10,7))
    sns.countplot(data["Target_type"]);
    plt.title("Most attacked target type")
```

```
plt.xticks(rotation=90)
plt.xlabel("Target type",fontsize=15)
plt.ylabel("Number of attacks",fontsize=15)
plt.show()
```

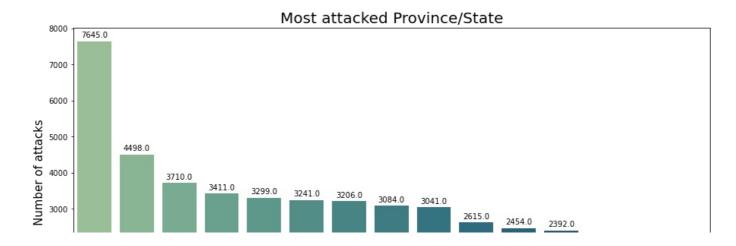
C:\Users\KORRA SRINU\anaconda3\lib\site-packages\seaborn\\_decorators.py:36: FutureWarning: Pass the following var iable as a keyword arg: x. From version 0.12, the only valid positional argument will be `data`, and passing othe r arguments without an explicit keyword will result in an error or misinterpretation.

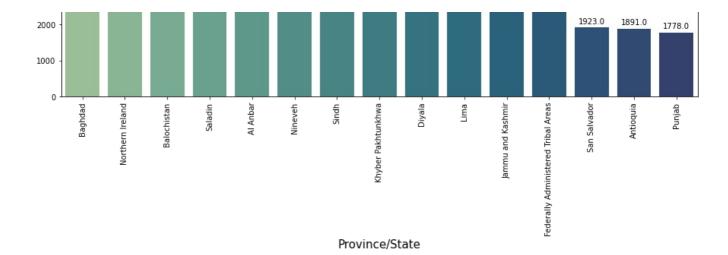
warnings.warn(



C:\Users\KORRA SRINU\anaconda3\lib\site-packages\seaborn\\_decorators.py:36: FutureWarning: Pass the following variables as keyword args: x, y. From version 0.12, the only valid positional argument will be `data`, and passing o ther arguments without an explicit keyword will result in an error or misinterpretation.

warnings.warn(





Hot Zones Most attacked country: Iraq Most attacked Province/State: Baghdad Most attacked city: Baghdad Most used attack type: Bombing/Explosion Most attacked target type: Private Citizens & Property Terrorist group with most attacks: Islamic State of Iraq and the Levant

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