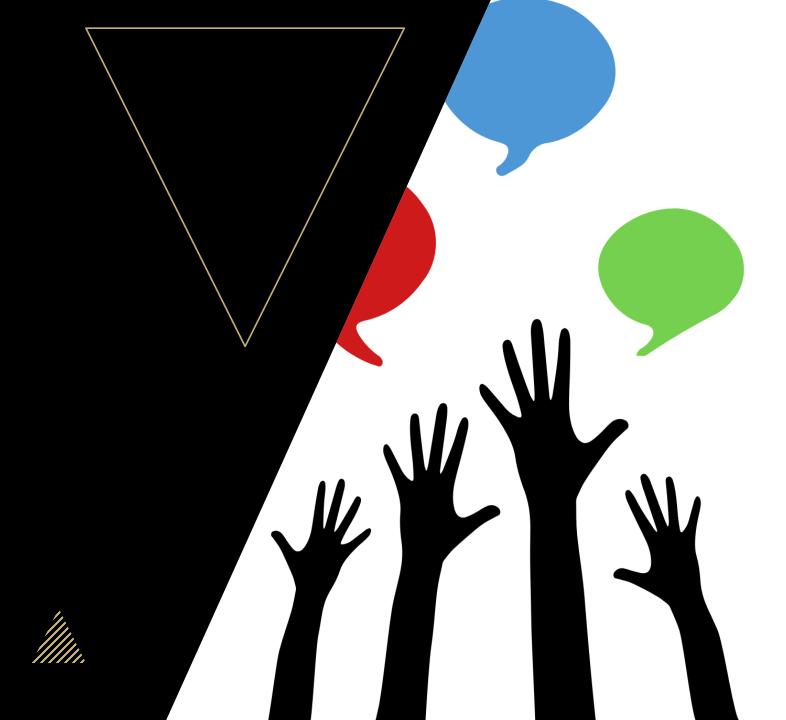
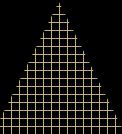


Terrorist-Attacks-Analysis







Exploratory Data Analysis - Terrorism (Level - Intermediate)

- Perform 'Exploratory Data Analysis' on dataset 'Global Terrorism'
- As a security/defense analyst, try to find out the hot zone of terrorism.
- What all security issues and insights you can derive by EDA?
- You can choose any of the tool of your choice (Python/R/Tableau/PowerBI/Excel/SAP/SAS)
- Dataset: https://bit.ly/2TK5Xn5
- Intermediate Level Create storyboards. Screen-record along with your audio explaining the charts and interpretations. Use images.
- Task submission:
 - Create the dashboards and/or storyboard and record it
 - Upload the recording on Youtube, share the link on LinkedIn
 - 3. Submit LinkedIn post link in Task Submission Form when shared
 - Please read FAQs on how to submit the tasks.



Make header

- Remove unless columns
- Remove blank and undefined values
- Modify types
- Renamed Columns
- Data Visualization Of Terrorist Attacks
- Results and Discussion

Overview

Data source

 f_x = Csv.Document(File.Contents("D:\Data Analysis\The Sparks Foundation\Task 4\globalterrorismdb_0718dist.csv"), [Delimiter=",", Columns=135, Encoding=1252, QuoteStyle=QuoteStyle.None]) ▼ A^B_C Column2 ▼ A^B_C Column3 ▼ A^B_C Column4 AB Column1 ▼ A^B_C Column5 ▼ A^B_C Column6 eventid iyear imonth iday approxdate extended

Make header

\times \checkmark f_X = Table.PromoteHeaders(Source, [PromoteAllScalars=true])										
-	A ^B _C eventid	A ^B _C iyear	A ^B _C imonth	A ^B _C iday	A ^B _C approxdate	A ^B _C extende	d			
1	197000000001	1970	7	2		0	_			
2	197000000002	1970	0	0		0	^			
3	197001000001	1970	1	0		0				
4	197001000002	1970	1	0		0				
5	197001000003	1970	1	0		0				
6	197001010002	1970	1	1		0				
7	197001020001	1970	1	2		0				
8	197001020002	1970	1	2		0				
9	197001020003	1970	1	2		0				
10	197001030001	1970	1	3		0				
11	197001050001	1970	1	1		0				
12	197001060001	1970	1	6		0				
13	197001080001	1970	1	8		0				
14	197001090001	1970	1	9		0				
15	197001090002	1970	1	9		0				
16	197001100001	1970	1	10		0				
17	197001110001	1970	1	11		0				
18	197001120001	1970	1	12		0				
19	197001120002	1970	1	12		0				
20	197001130001	1970	1	13		0				
21	197001140001	1970	1	14		0				
22	197001150001	1970	1	15		0	~			
23	197001190002	1970	1	19		0	•			
24	24 <									

Remove unless columns

```
= Table.RemoveColumns(#"Make header in 2nd row", {"eventid", "approxdate", "extended", "resolution", "provstate",
                           "latitude", "longitude", "specificity", "vicinity", "location", "summary", "crit1", "crit2", "crit3",
                           "doubtterr", "alternative", "alternative_txt", "multiple", "attacktype1", "attacktype1_txt", "attacktype2",
                           "attacktype2_txt", "attacktype3", "attacktype3_txt", "targtype1", "targsubtype1", "corp1", "target1",
                           "natlty1", "natlty1_txt", "targtype2", "targtype2_txt", "targsubtype2", "corp2", "target2", "natlty2",

    A<sup>B</sup> iyear
                               ▼ A<sup>B</sup><sub>C</sub> imonth
                                                             ▼ A<sup>B</sup><sub>C</sub> iday
                                                                                           ▼ AB country_txt
                                                                                                                         ▼ A<sup>B</sup><sub>C</sub> region_txt
                                                                                                                                                        ▼ A<sup>B</sup><sub>C</sub> city
     1970
                                                                                              Dominican Republic
                                                                                                                            Central America & Caribbean
                                                                                                                                                            Santo Dom
     1970
                                                                                              Mexico
                                                                                                                            North America
                                                                                                                                                            Mexico cit
     1970
                                                                                              Philippines
                                                                                                                            Southeast Asia
                                                                                                                                                            Unknown
     1970
                                                                                              Greece
                                                                                                                            Western Europe
                                                                                                                                                            Athens
     1970
                                                                                                                            East Asia
                                                                                                                                                            Fukouka
                                                                                              Japan
                                                                                              United States
     1970
                                                                                                                            North America
                                                                                                                                                            Cairo
     1970
                                                                                              Uruguay
                                                                                                                            South America
                                                                                                                                                            Montevide
     1970
                                                                                                                            North America
                                                                                              United States
                                                                                                                                                            Oakland
     1970
                                                                                              United States
                                                                                                                            North America
                                                                                                                                                            Madison
                                                                                              United States
                                                                                                                            North America
                                                                                                                                                            Madison
     1970
     1970
                                                                                              United States
                                                                                                                            North America
                                                                                                                                                            Baraboo
                                                                                              United States
     1970
                                                                                                                            North America
                                                                                                                                                            Denver
     1970
                                                                                              Italy
                                                                                                                            Western Europe
                                                                                                                                                            Rome
     1970
                                                                                                                            North America
                                                                                              United States
                                                                                                                                                            Detroit
     1970
                                                                                              United States
                                                                                                                            North America
                                                                                                                                                            Rio Piedras
     1970
                                                                 10
                                                                                              East Germany (GDR)
                                                                                                                            Eastern Europe
                                                                                                                                                            Berlin
     1970
                                                                 11
                                                                                               Ethiopia
                                                                                                                            Sub-Saharan Africa
                                                                                                                                                            Unknown
                                                                 12
                                                                                              United States
                                                                                                                            North America
                                                                                                                                                            New York (
     1970
                                                                                                                                                            Rio Grande ✓
                                                                12
     1970
                                                                                              United States
                                                                                                                            North America
```

Remove blank and undefined values

= Table.SelectRows(#"Remove unless columns", each ([targsubtype1_txt] <> "") and ([targsubtype2_txt] <> "") and ([targsubtype3_txt] <> "") and ([gname] <> "Unknown") and ([weapdetail] <> "" and [weapdetail] <> "Two unknown types of handguns were used in the attack." and [weapdetail] <> "Unknown explosives were used in the attack." and [weapdetail] <> "Unknown explosives were used in the bombing attack and unknown weapons were used in the attack against the villagers." and [weapdetail] <> "Unknown explosives were used in the bombing attack and ▼ A^B_C imonth AB iyear ▼ A^B_C iday ▼ AB country_txt ▼ AB region_txt ▼ A^B_C city 1973 United States North America New Orlea Middle East & North Africa 1976 16 Lebanon Beirut 1977 United Kingdom Western Europe Ardboe 1978 18 Cyprus Western Europe Nicosia 1978 12 Spain Western Europe San Sebast 1981 Spain Western Europe Madrid 1981 10 16 India South Asia Chandigart 1982 12 Mozambique Sub-Saharan Africa Beira 1984 Colombia South America Las Palmas 1984 14 United Kingdom Western Europe Belfast 29 1985 Western Europe Paris France 1985 Spain Western Europe Unknown 1986 South America 21 Peru Lima 1986 21 Peru South America Lima 1986 21 Peru South America Lima 1986 21 South America Lima Peru 1986 Peru South America Lima 21 South America 1986 Peru Lima 21 1986 Peru South America Lima

Modify types

```
\times \checkmark f_x
```

= Table.TransformColumnTypes(#"Remove blank and undefined values",{{"iyear", Int64.Type}, {"success", Int64.Type}, ∧ {"success", Int64.Type})

-	1 ² 3 iyear	A ^B _C imonth	A ^B _C iday	A ^B _C country_txt	A ^B _C region_txt	A ^B _C city			
1	1973	1	7	United States	North America	New Orlea			
2	1976	6	16	Lebanon	Middle East & North Africa	Beirut			
3	1977	6	2	United Kingdom	Western Europe	Ardboe			
4	1978	2	18	Cyprus	Western Europe	Nicosia			
5	1978	12	5	Spain	Western Europe	San Sebast			
6	1981	5	7	Spain	Western Europe	Madrid			
7	1981	10	16	India	South Asia	Chandigarl			
8	1982	12	9	Mozambique	Sub-Saharan Africa	Beira			
9	1984	2	8	Colombia	South America	Las Palmas			
10	1984	3	14	United Kingdom	Western Europe	Belfast			
11	1985	3	29	France	Western Europe	Paris			
12	1985	5	3	Spain	Western Europe	Unknown			
13	1986	2	21	Peru	South America	Lima			
14	1986	2	21	Peru	South America	Lima			
15	1986	2	21	Peru	South America	Lima			
16	1986	2	21	Peru	South America	Lima			
17	1986	2	21	Peru	South America	Lima			
18	1986	2	21	Peru	South America	Lima			
19	1986	2	21	Peru	South America	Lima			
20	0 <								

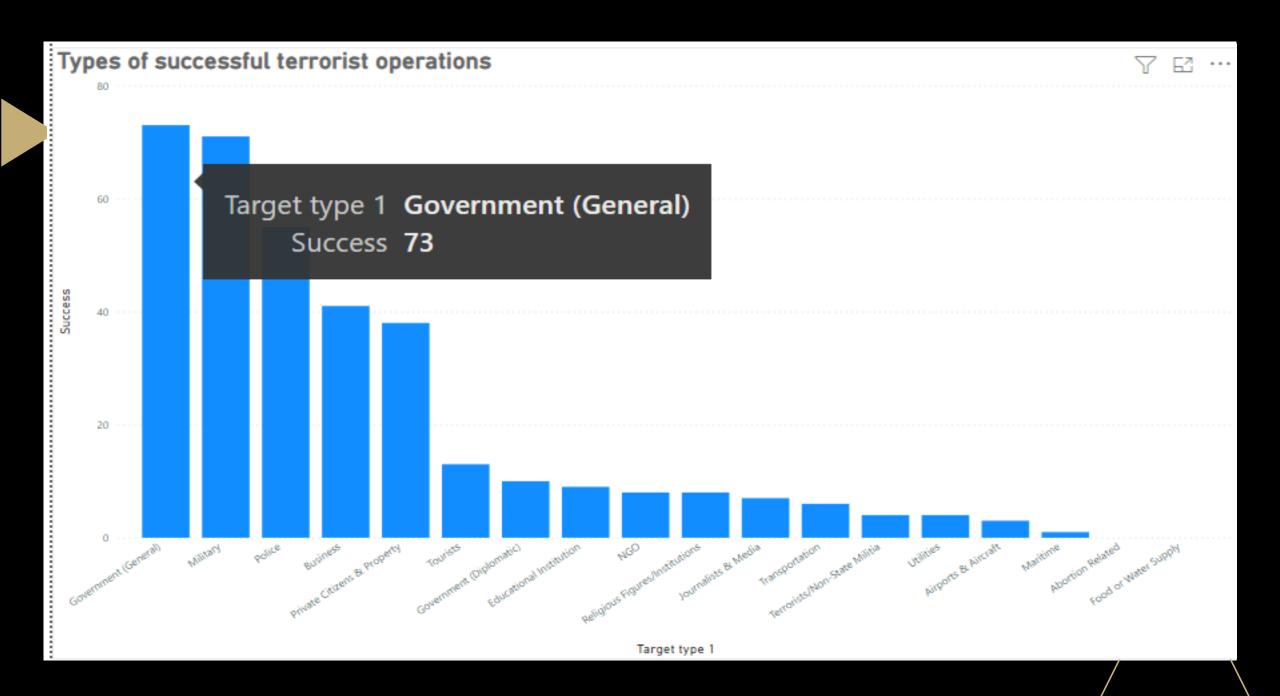
Renamed Columns

```
= Table.RenameColumns(#"Modify types",{{"country_txt", "Country"}, {"success", "Success"}, {"imonth", "Month"},
                          {"iday", "Day"}, {"iyear", "Year"}, {"targsubtype1_txt", "Target subtype 1"}, {"gname", "Group name"},
                          {"region_txt", "Region"}, {"targsubtype2_txt", "Target subtype 2"}, {"targsubtype3_txt", "Target subtype 3"},
                          {"targtype1_txt", "Target type 1"}, {"city", "City"}, {"suicide", "Suicide"}})

123 Year

123 Year
                               ▼ A<sup>B</sup><sub>C</sub> Month
                                                             ▼ A<sup>B</sup><sub>C</sub> Day
                                                                                           ▼ A<sup>B</sup><sub>C</sub> Country
                                                                                                                         ▼ A<sup>B</sup><sub>C</sub> Region
                                                                                                                                                         ▼ A<sup>B</sup><sub>C</sub> City
                             1973 1
                                                                                               United States
                                                                                                                             North America
                                                                                                                                                             New Orlea
                             1976 6
                                                                                                                             Middle East & North Africa
 2
                                                                 16
                                                                                               Lebanon
                                                                                                                                                             Beirut
 3
                             1977 6
                                                                                               United Kingdom
                                                                                                                             Western Europe
                                                                                                                                                             Ardboe
                             1978 2
                                                                 18
 4
                                                                                               Cyprus
                                                                                                                             Western Europe
                                                                                                                                                             Nicosia
 5
                             1978 12
                                                                 5
                                                                                                                             Western Europe
                                                                                                                                                             San Sebast
                                                                                               Spain
 6
                             1981 5
                                                                                               Spain
                                                                                                                             Western Europe
                                                                                                                                                             Madrid
 7
                             1981 10
                                                                 16
                                                                                               India
                                                                                                                             South Asia
                                                                                                                                                             Chandigarl
 8
                             1982 12
                                                                 9
                                                                                                                             Sub-Saharan Africa
                                                                                               Mozambique
                                                                                                                                                             Beira
 9
                             1984 2
                                                                                               Colombia
                                                                                                                             South America
                                                                                                                                                             Las Palmas
10
                                                                                               United Kingdom
                             1984 3
                                                                 14
                                                                                                                                                             Belfast
                                                                                                                             Western Europe
11
                             1985 3
                                                                 29
                                                                                               France
                                                                                                                             Western Europe
                                                                                                                                                             Paris
12
                             1985 5
                                                                                               Spain
                                                                                                                             Western Europe
                                                                                                                                                             Unknown
13
                             1986 2
                                                                 21
                                                                                               Peru
                                                                                                                             South America
                                                                                                                                                             Lima
14
                             1986 2
                                                                 21
                                                                                               Peru
                                                                                                                             South America
                                                                                                                                                             Lima
15
                             1986 2
                                                                 21
                                                                                               Peru
                                                                                                                             South America
                                                                                                                                                             Lima
16
                                                                 21
                             1986 2
                                                                                                                             South America
                                                                                                                                                             Lima
                                                                                               Peru
17
                             1986 2
                                                                 21
                                                                                               Peru
                                                                                                                             South America
                                                                                                                                                             Lima
18
                             1986 2
                                                                 21
                                                                                                                             South America
                                                                                                                                                             Lima
                                                                                               Peru
                                                                 21
19
                             1986 2
                                                                                               Peru
                                                                                                                             South America
                                                                                                                                                             Lima
```

Hot zone of terrorism Turk Syria 11.00 Iraq 43.00 Pakistan 11.00 Philippines 21.00 Colom... M. Sri Lanka Afghanistan 12.00 Somalia 48.00 18.00 Spain 12.00 Nigeria Peru 15.00 13.00 India



Groups that have carried out failed operations

13 (3.49%)

1 (0.27%) 1 (0.27%)

3 (0.81%)

13 (3.49%)

3 (0.81%)

1 (0.27%)

7 (1.88%)

2 (0.54%)

2 (0.54%) 2 (0.54%)

12 (3.23%)

1 (0.27%)

9 (2.42%)

1 (0.27%) -

2 (0.54%)

1 (0.27%) 5 (1.34%) -

1 (0.27%) -

5 (1.34%)

13 (3.49%) 12 (3.23%)

1 (0,27%) 3 (0.81%) (0,27%)

- 2 (0.54%)



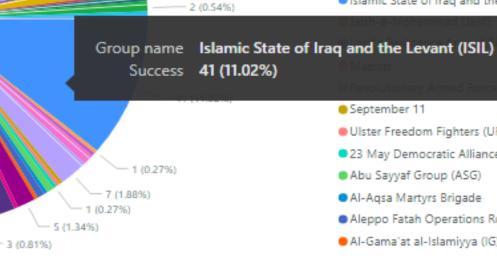




- Khorasan Chapter of the Islamic State
- Taliban
- Adan-Abyan Province of the Islamic State
- Algerian Islamic Extremists
- Al-Qaida in the Arabian Peninsula (AQAP)
- Al-Qaida in the Islamic Maghreb (AQIM)
- Anti-Abortion extremists
- Baloch Liberation Army (BLA)
- Bangsamoro Islamic Freedom Movement (BIFM)

Colombia (FARC)

- Conspiracy of Cells of Fire
- Islamic State of Iraq and the Levant (ISIL)



38 (10.22%)

1 (0.27%)

2 (0.54%)

1 (0.27%)

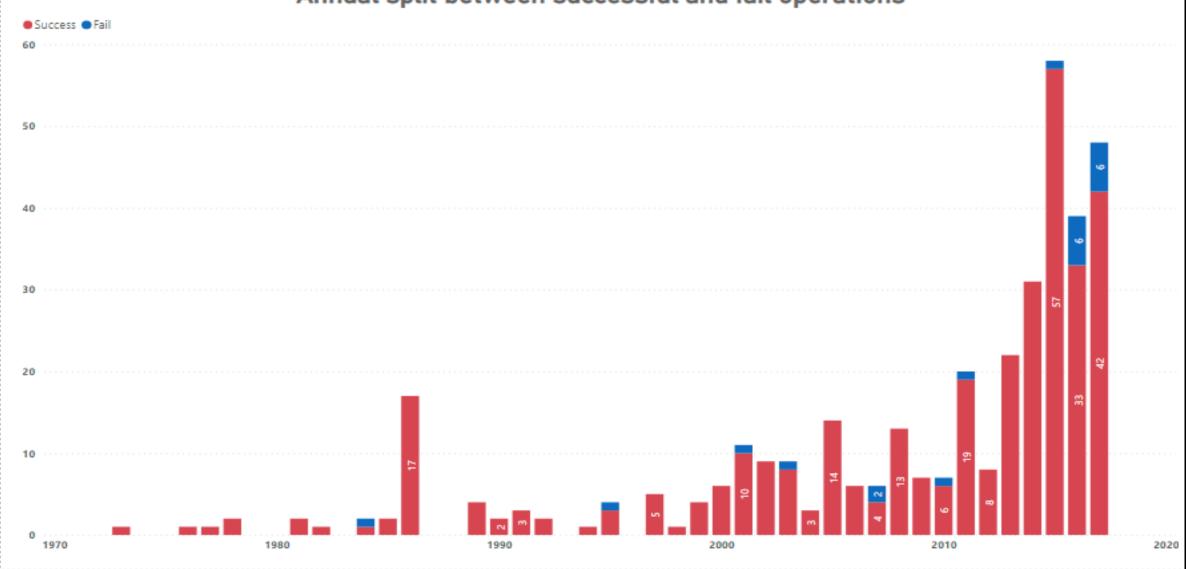
- 1 (0.27%)

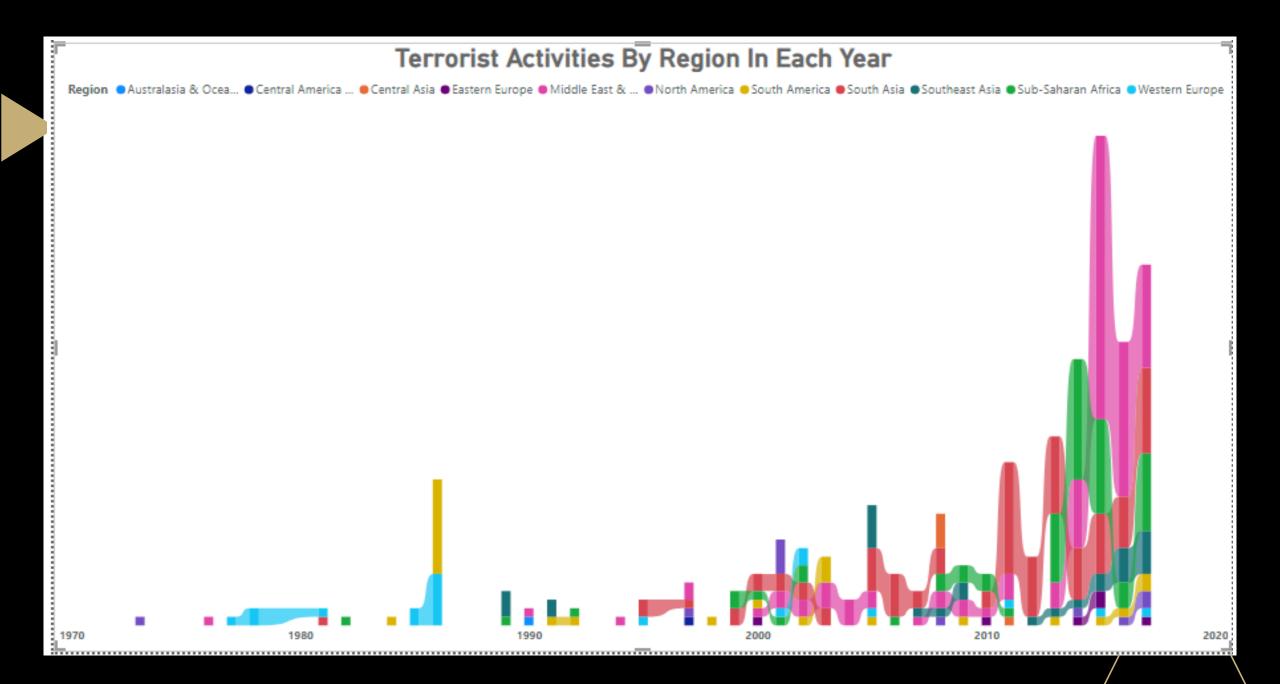
2 (0.54%)

September 11

- Ulster Freedom Fighters (UFF)
- 23 May Democratic Alliance (Algeria)
- Abu Sayyaf Group (ASG)
- Al-Aqsa Martyrs Brigade
- Aleppo Fatah Operations Room
- Al-Gama'at al-Islamiyya (IG)
- Allied Democratic Forces (ADF)

Annual split between successful and fail operations





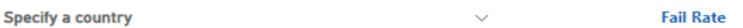
0.94

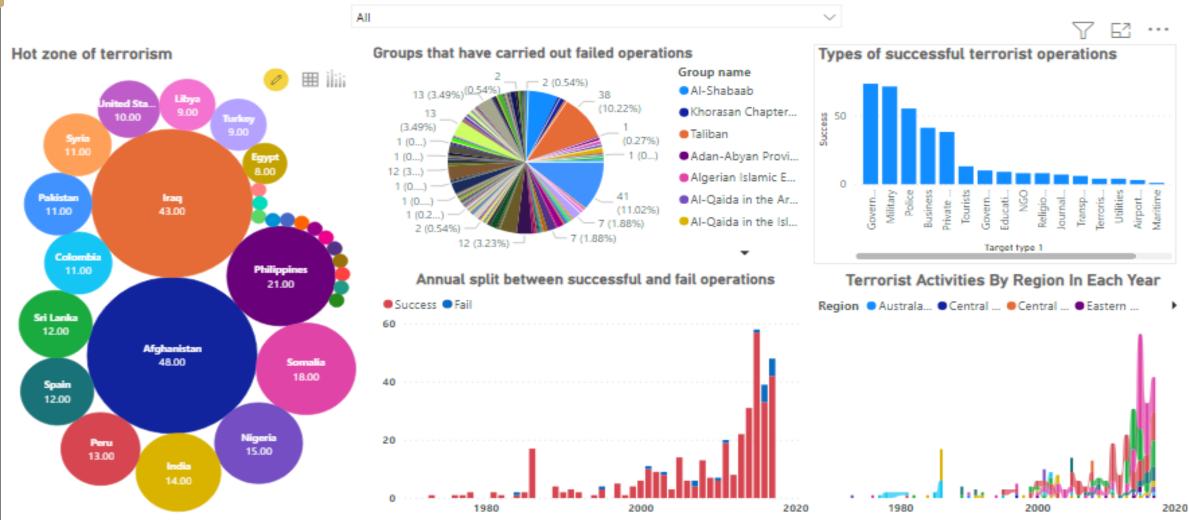
Success Rate

Data Visualization Of Terrorist Attacks

From 1970 To 2017

0.06





Results and Discussion

- Afghanistan has experienced the most successful terrorist assaults (48 successful terrorist attacks).
- Governmental institutions are the most places that witnessed terrorist attacks, with an average of (73 successful terrorist attacks).
- The Islamic State of Iraq and the Levant (ISIL) is the terrorist group with the most effective strikes (41 attacks).
- The highest rate of terrorist attacks was in 2015.
- The most areas in which terrorist operations have occurred in the Middle East and North Africa.
- Terrorist strikes have a 94% success rate and a 6% failure rate.

Thank You



LinkedIn mohamed-abdlatif



GitHub abdlatif769



Email mohamedahmedabdlatif2@gmail.com



Phone +201027758964