



Author : A Pavan

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Place: Bangalore

Business Analytics & Data Science Internship

Technical TASK 4 :- Exploratory Data Analysis - Terrorism

In this task, we will be performing exploratory data analysis on the data-set :
"GlobalTerrorismdb"

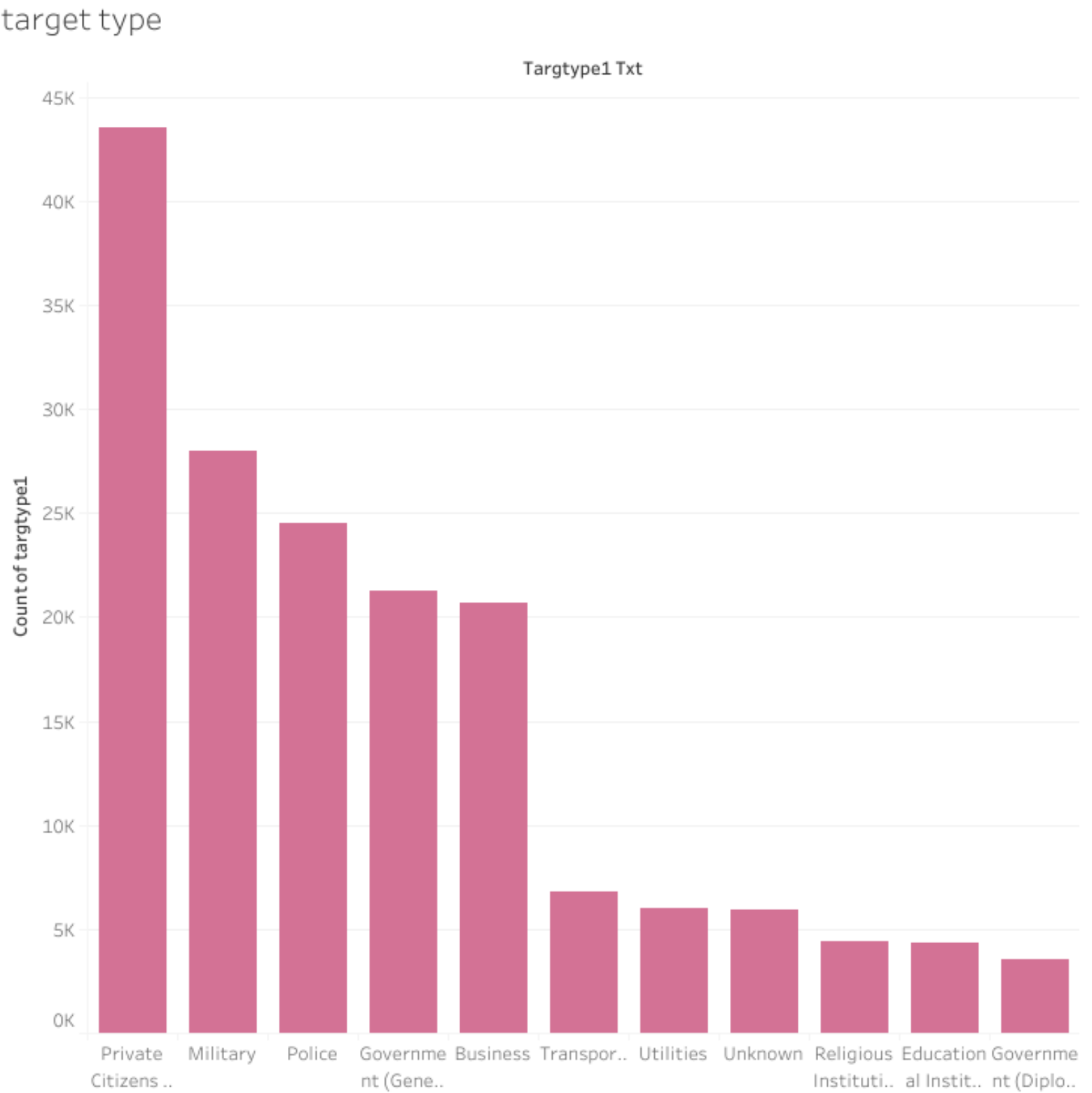
PROBLEM STATEMENT:

- a) Perform 'Exploratory Data Analysis' on data-set 'Global Terrorism'
- b) As a security/defense analyst, try to find out the hot zone of terrorism.
- c) What all security issues and insights you can derive by EDA?

STEPS FOLLOWED:

- a) Load the data-set into Excel/Spreadsheets
- b) Modifying the data
- c) Check and remove null values
- d) Data exploration
- e) Observations
- f) Forming pivot tables for required fields
- g) Importing those tables into Tableau
- h) Plotting various values
- i) Conclusions

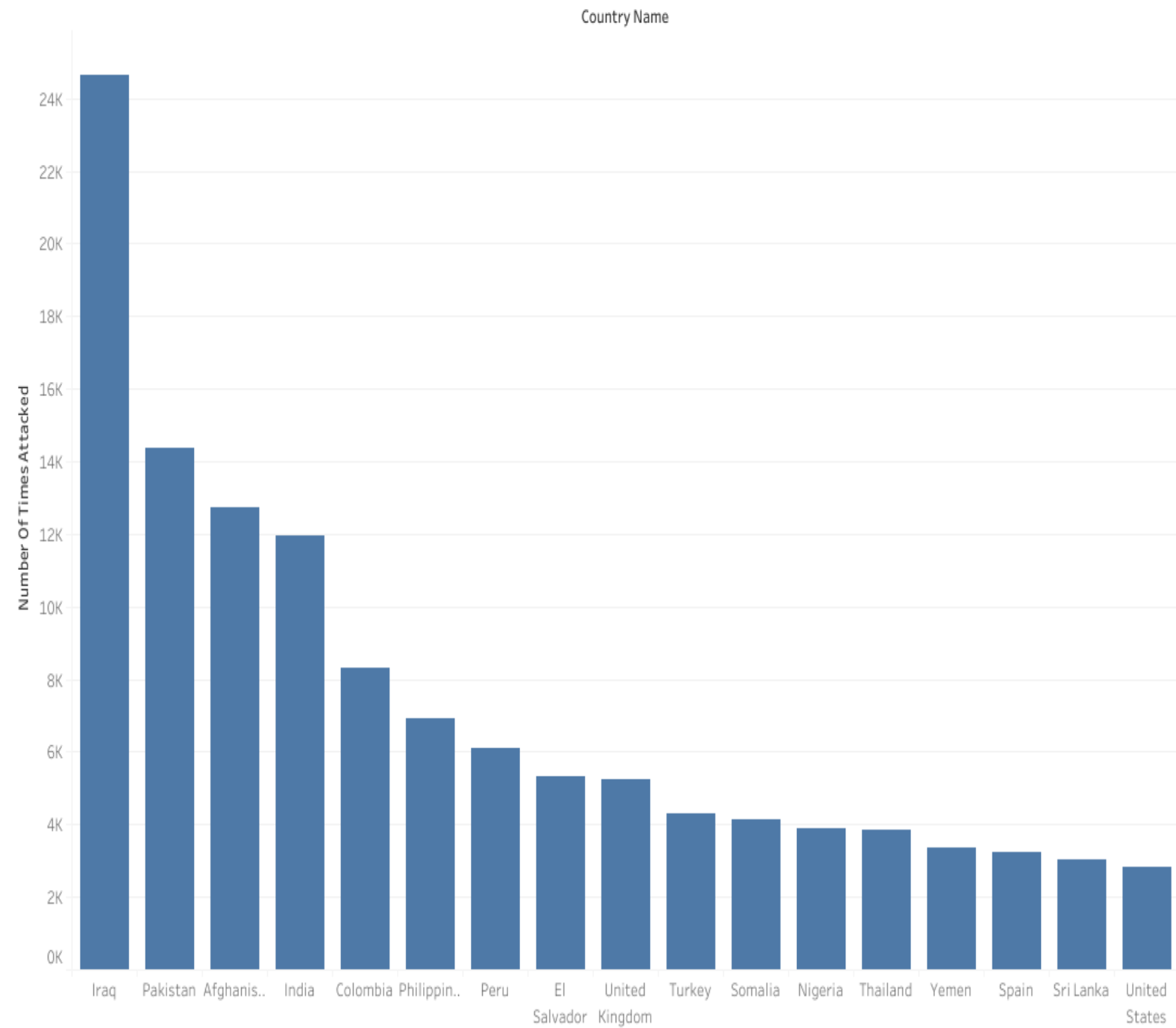
Visualization 1: Target type vs number of times attacked:



Inference:
Private citizens are most vulnerable to attacks, followed by military personnel.

Visualization 2: Country vs Number of times attacked:

Sheet 9

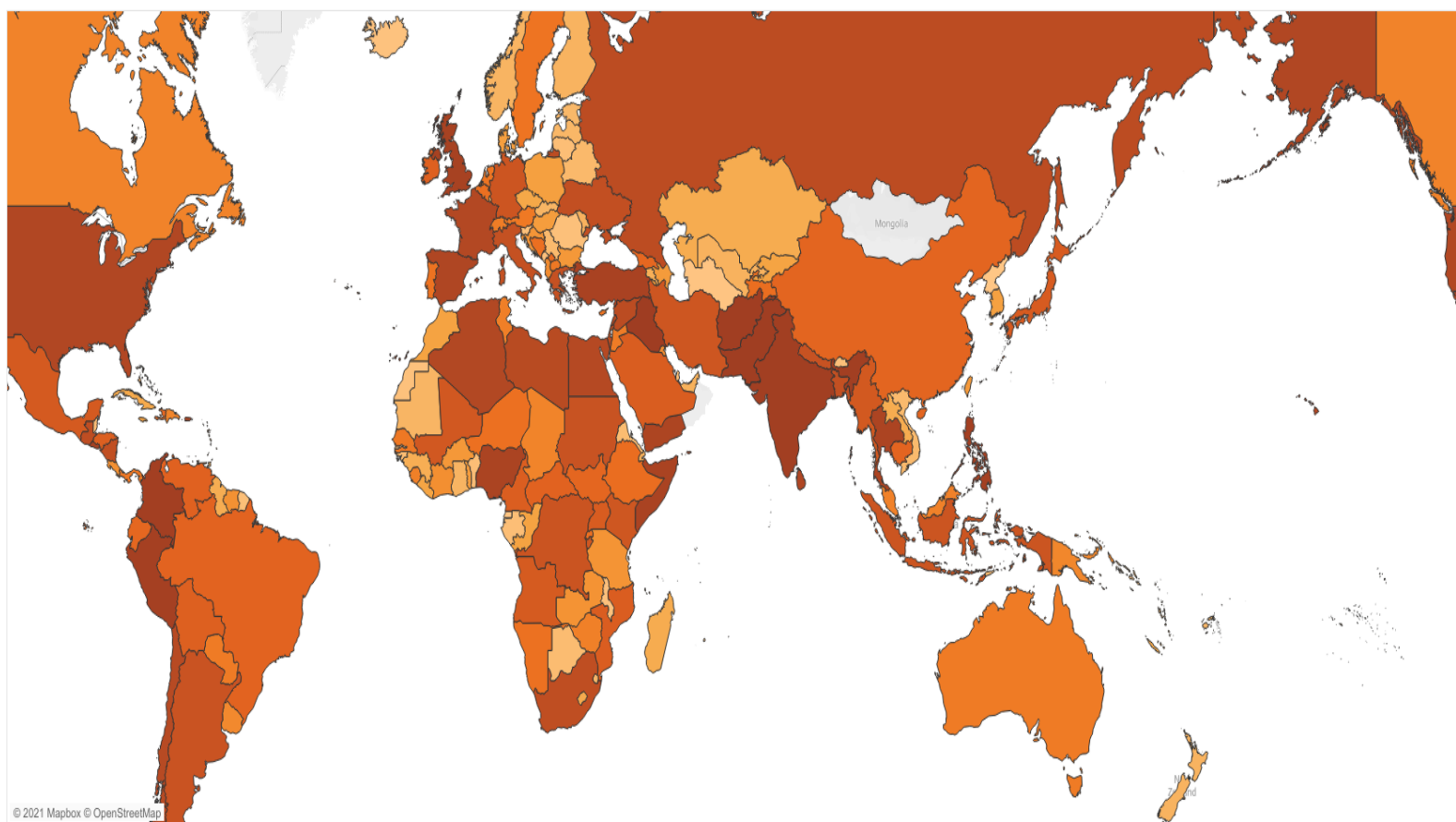


Inference:

Iraq is the country which experienced highest number of attacks, followed by Pakistan and Afghanistan

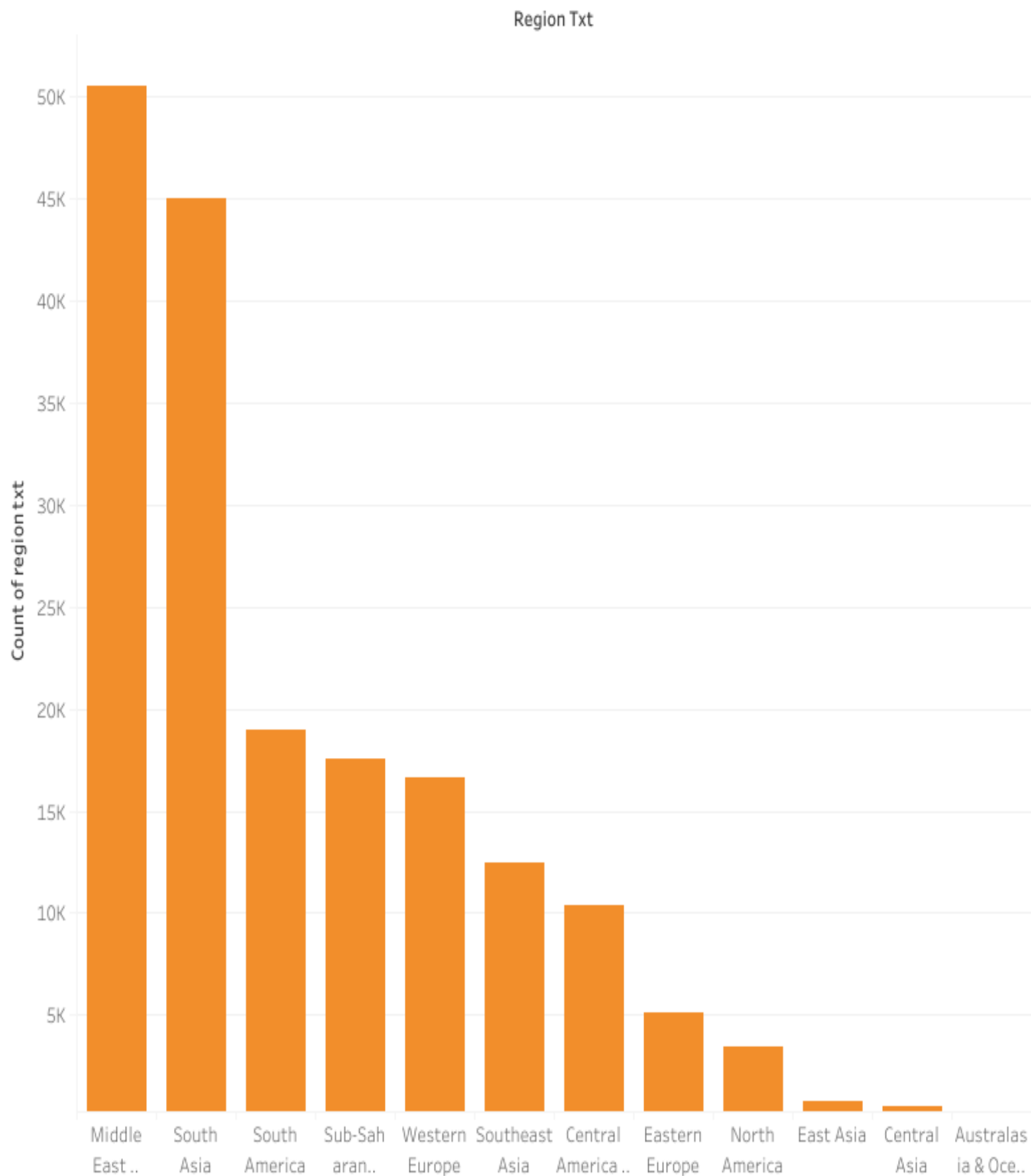
Visualization 3: Country-wise vs the number of attacks

country_wise attacked visualized



Visualization 4: No of times attacked w.r.t. a region

regions

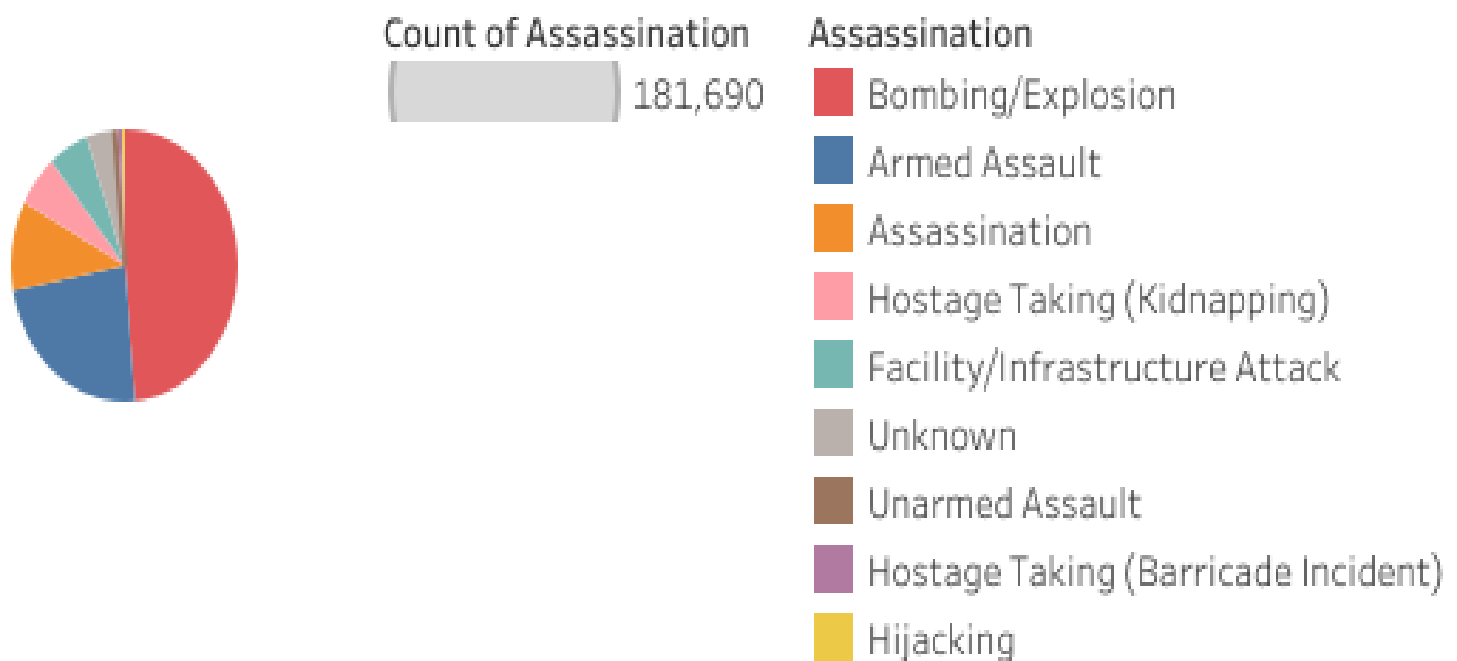


Inference:

Middle east and south Asia are attacked the most

Visualization 5: Assassination Type

Assassination
type

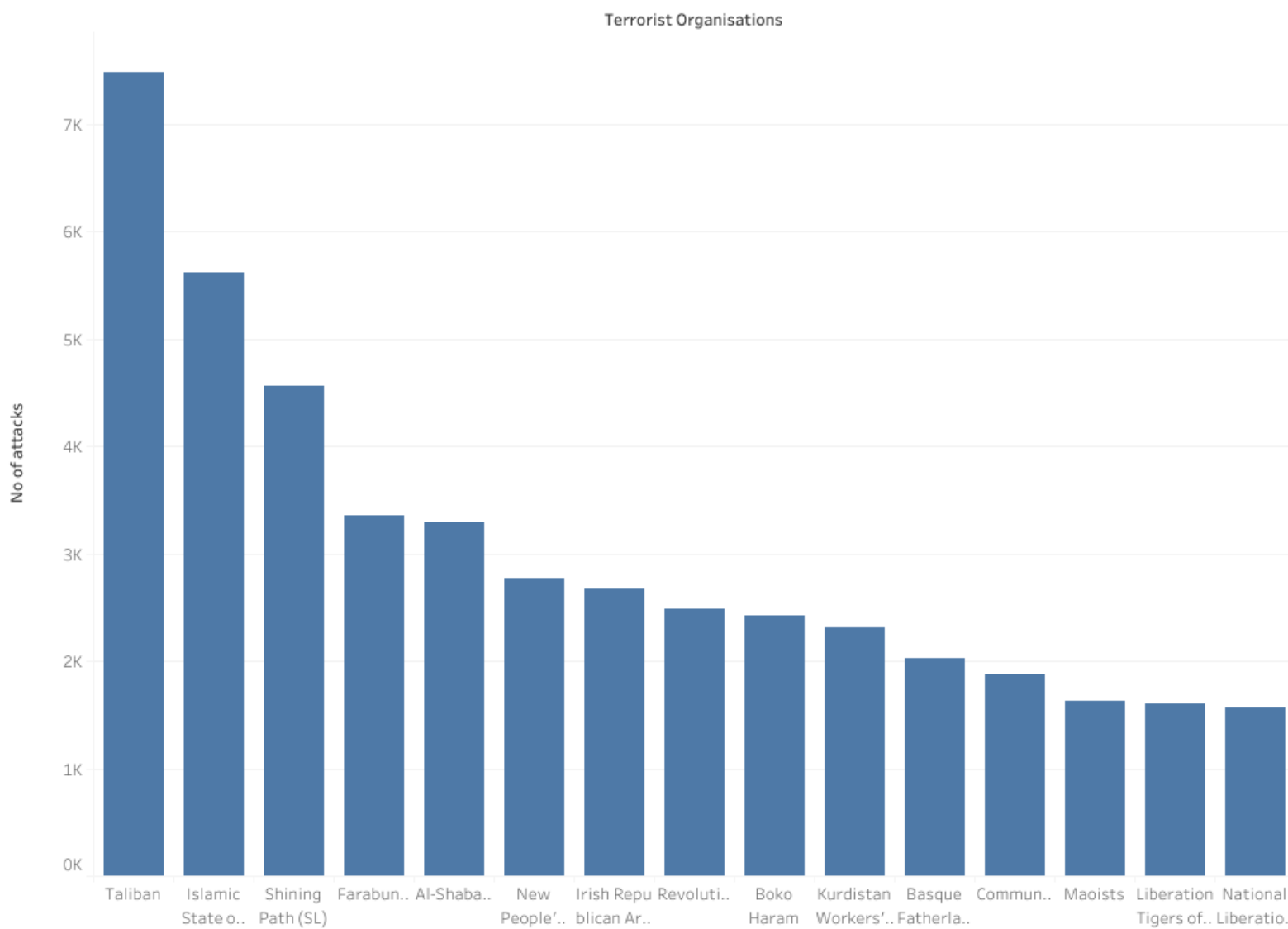


Inference:

Bombing is the means terrorists use for many number of times, hence by controlling the accessibility of bombs/ explosives, large number of attacks could be avoided

Visualization 6: Active terrorist organizations:

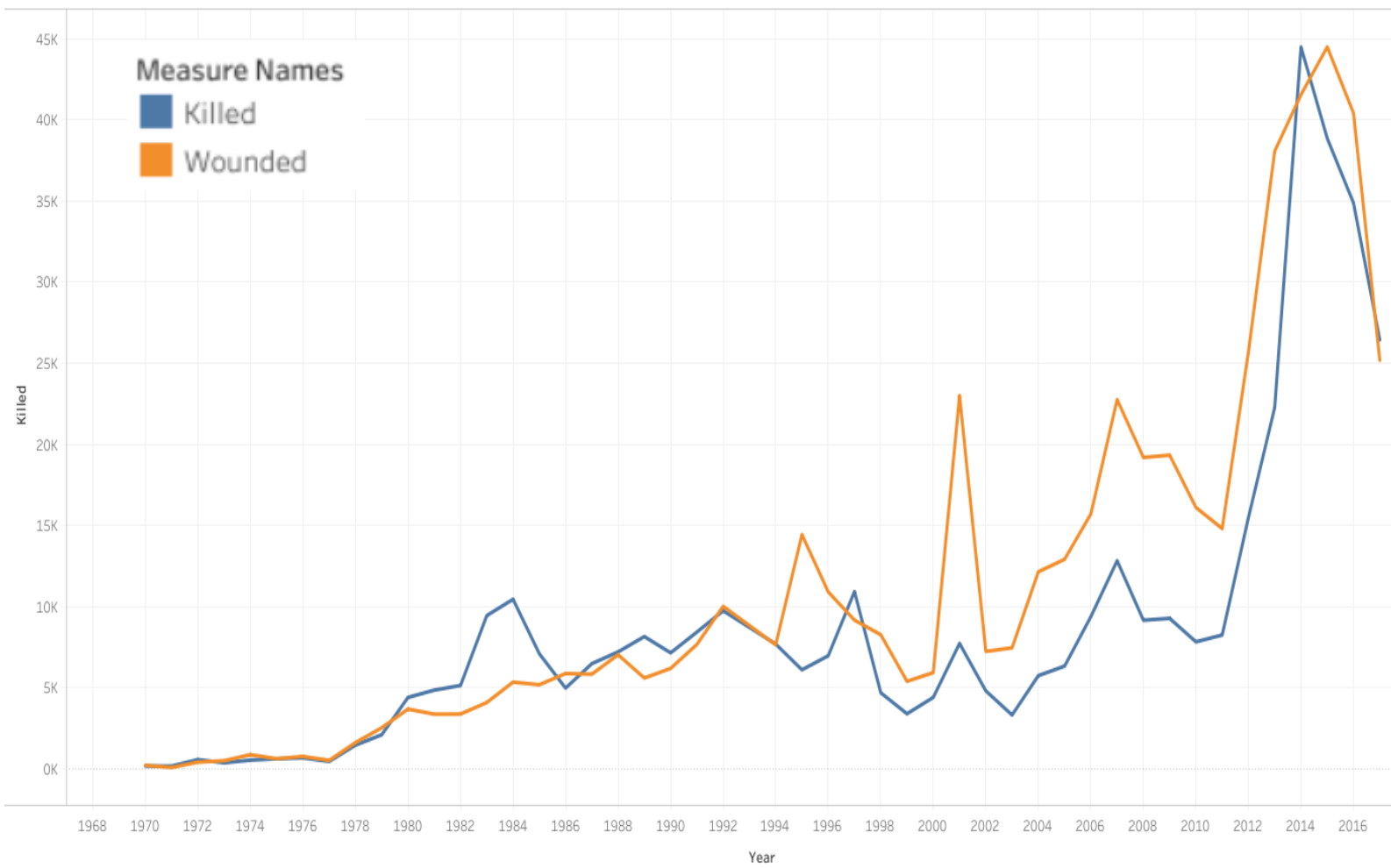
Sheet 10



Inference:
Taliban, ISIL, SL are the most active organizations

Visualization 7: number of people killed and wounded over the years

Year vs Killed, Wounded

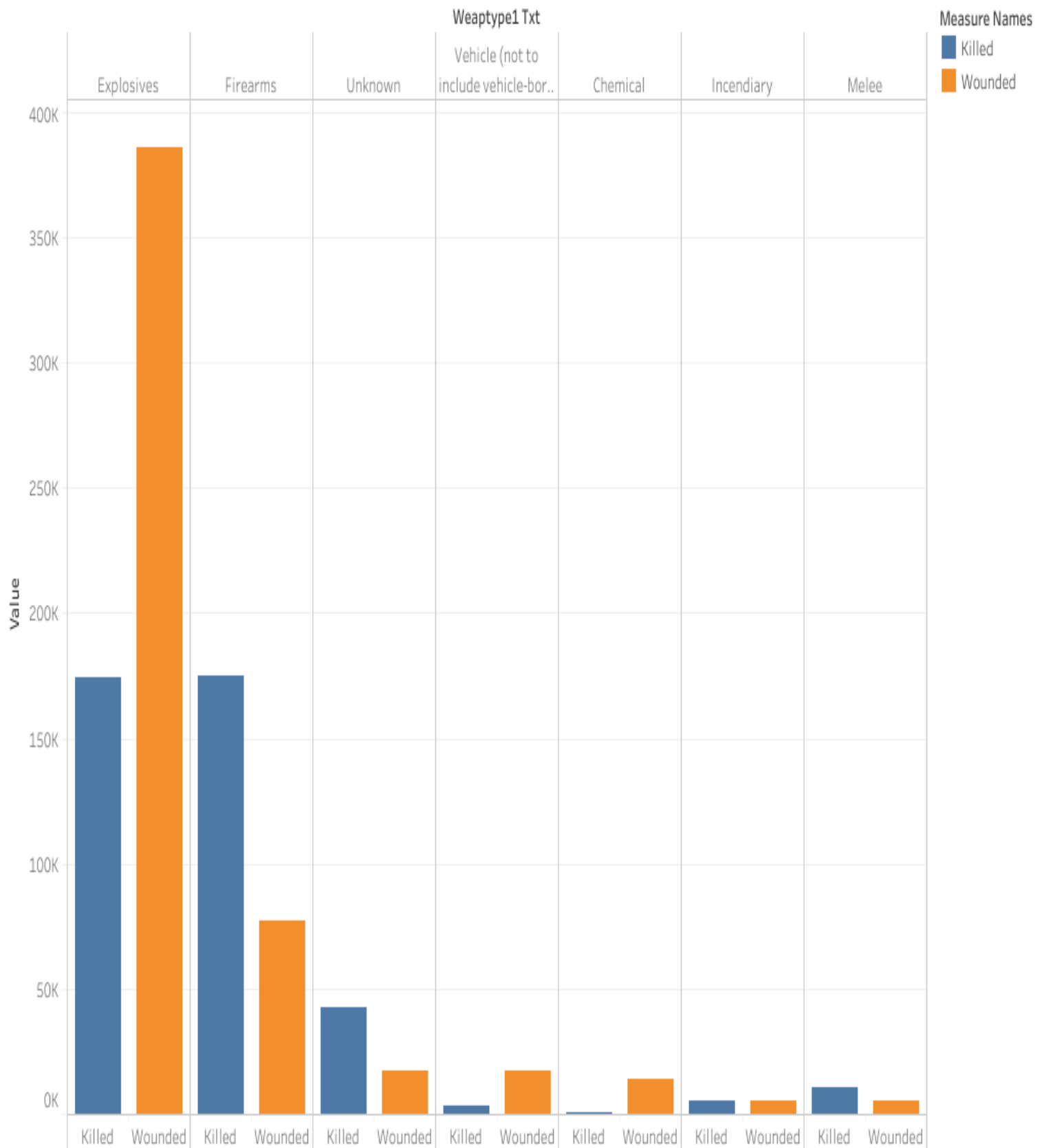


Inference:

- Year 2014 saw an all time high for the number of people killed
- On 2015, highest number of people were wounded.

Visualization 8: weapon type vs number of people wounded and killed.

Weapon Types

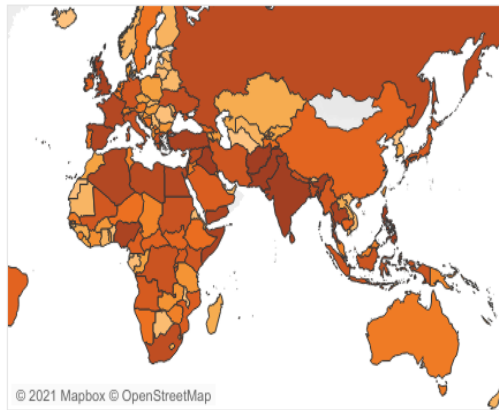


Inferences:

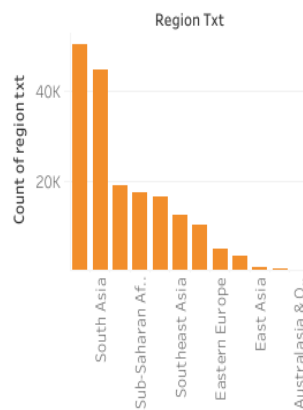
- whenever there's an explosion, the number of people wounded is more
- whenever firearms arms are used, more people are killed

FINAL DASHBOARD:

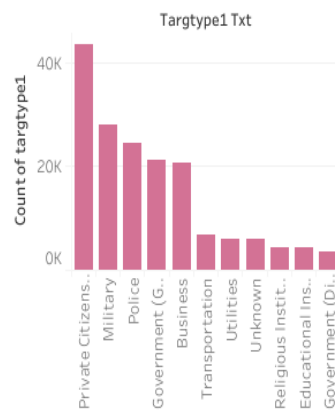
country_wise attacked visualized



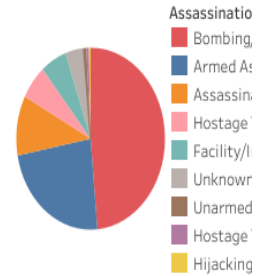
regions



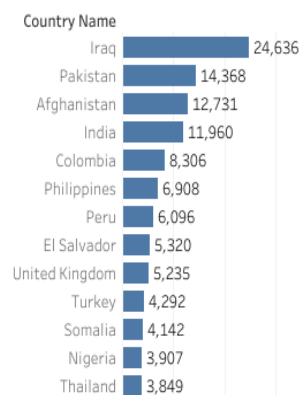
target type



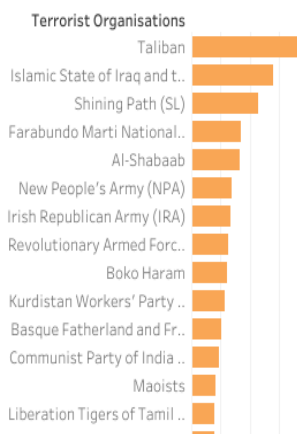
Assassination type



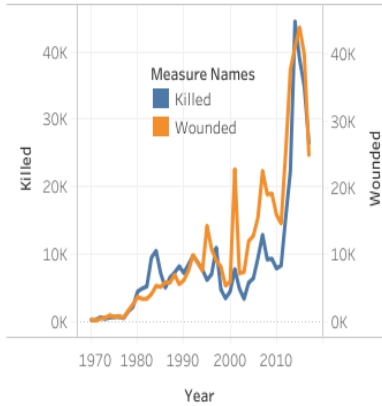
Country vs no of times attacked



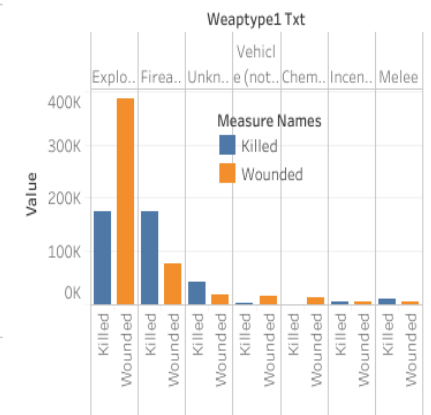
Terrorist organisation



Year vs Killed, Wounded



Weapon Types



CONCLUSIONS:

- Private citizens are most vulnerable to attacks, followed by military personnel.
- Bombing is the means terrorists use for many number of times, hence by controlling the accessibility of bombs/ explosives, large number of attacks could be avoided
- whenever there's an explosion, the number of people wounded is more
- whenever firearms arms are used, more people are killed

- Year 2014 saw an all time high for the number of people killed
- On 2015, highest number of people were wounded.

- Iraq is the country which experienced highest number of times attacked, followed by Pakistan and Afghanistan
- Middle east and south Asian regions are attacked the most
- Taliban, ISIL, SL are the most active organizations

- In terms of terrorist actions, the Middle East and North Africa are hot-spots in all areas.
 - Iraq has the highest terrorist rate in the world, with a sharp spike in terrorist activity after 2010.
 - Libya has a low terrorism activity overall, ranks second in terms of successful terrorist acts, and has seen a rise in terrorism rates since 2010.
 - Yemen has a low terrorism activity overall, ranks third in terms of effective terrorist acts, and has seen a rise in terrorism rates since 2010.