

# **INTRODUCTION**

#### • Overview:

- This project aims to analyze global terrorism trends using the Global Terrorism Database.
- Understanding these patterns is crucial for developing effective counter-terrorism strategies.

#### • Data Source:

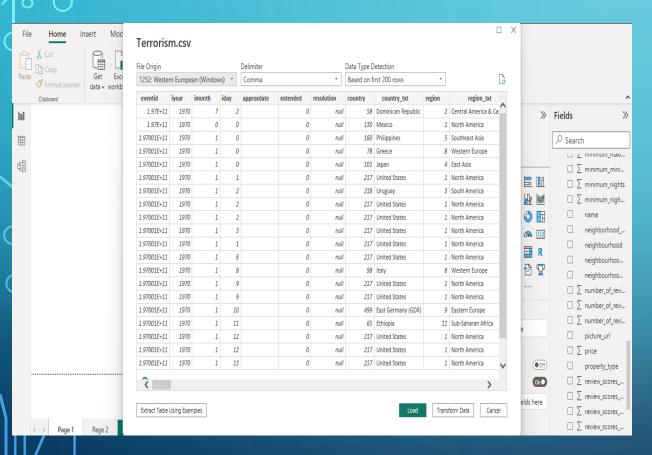
 Global Terrorism Database (GTD), maintained by the National Consortium for the Study of Terrorism and Responses to Terrorism (START).

## **OBJECTIVES**

### • Main Objectives:

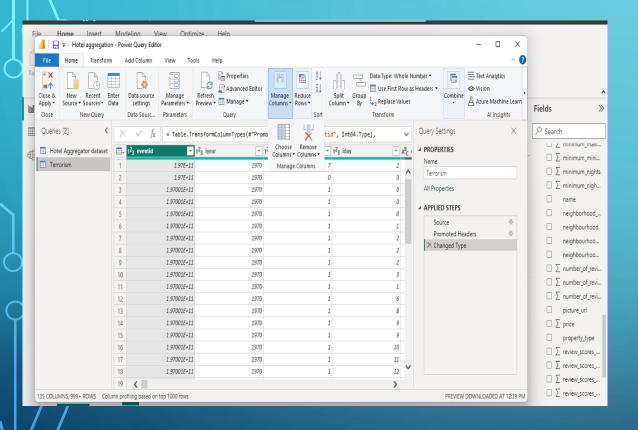
- Identify the most targeted facilities by terrorist groups.
- Analyze trends over time and geographical distribution.
- Understand the methods and impact of terrorist attacks.
- Identifying the most deadly terrorist groups
- Understand types of weapons mostly used by Terrorist groups
- Identifying countries and regions prone to terrorist attacks

# **DATA LOADING**



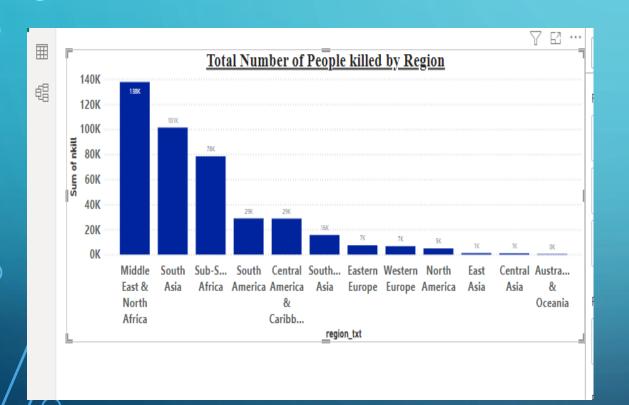
 Loaded Terrorism Dataset which was in CSV formart.

## DATA PREPARATION AND TRANSFORMATION



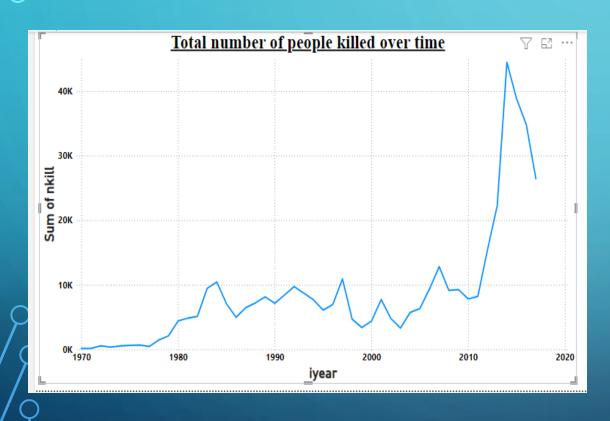
- Removed unnecessary columns and duplicated entries.
- Replaced Categorical columns with missing values by 'Unknown'.
- Checked data types for each column, ensuring correct data type.

## **DEATHS ANALYSIS BY REGIONS**



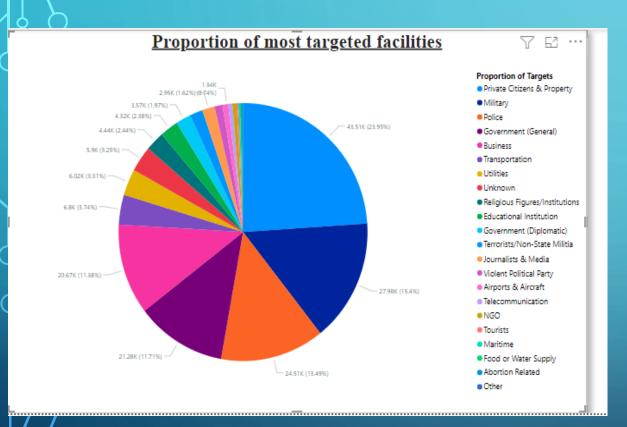
- Stacked column chart was chosen to represent total deaths by Region.
- Middle East and North Africa account for 138k deaths followed by South Asia going on as represented from 1986 to 2017
- This indicates that these regions are prone to terrorist attacks and lack sophisticated deterrence to terrorist attacks.

## **DEATHS ANALYSIS OVER TIME**



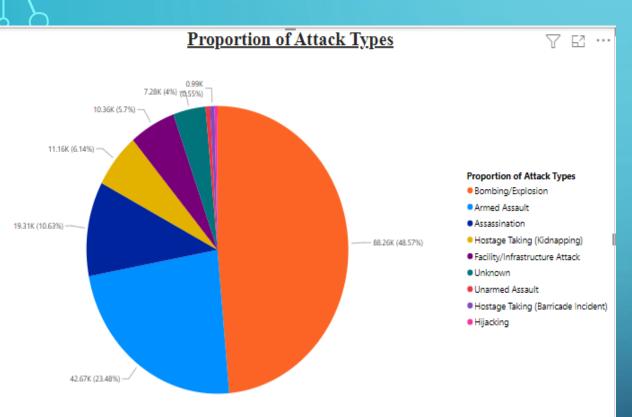
- Line chart was chosen to trace total deaths over time.
- From 1970 to 2010, there was gradual increase in the total number of deaths in the world.
- In 2014 there was a sharp increase in the number of terrorist groups.

## **ANALYSIS OF TARGETED FACILITIES**



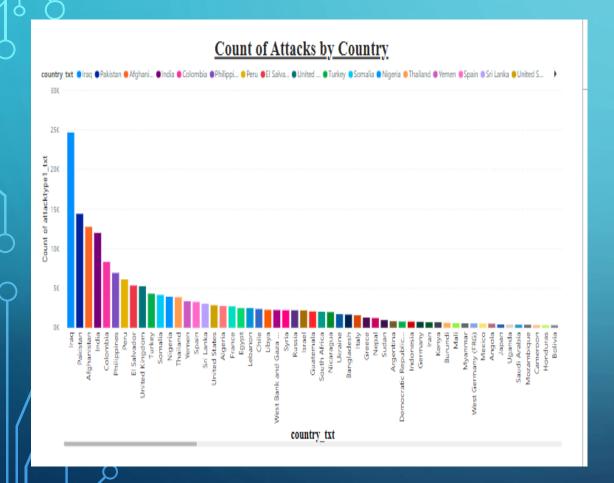
- I chose Pie Chart to represent the proportion of targeted facilties by terrorist groups.
- From the chart, Private Citizens and Property are the most targeted facilities accounting for 23.95%, followed by Military Facilities accounting for 15.4%, followed by Police Facilities accounting for 13.49% going down the rank.

## **ANALYSIS OF ATTACK TYPES**



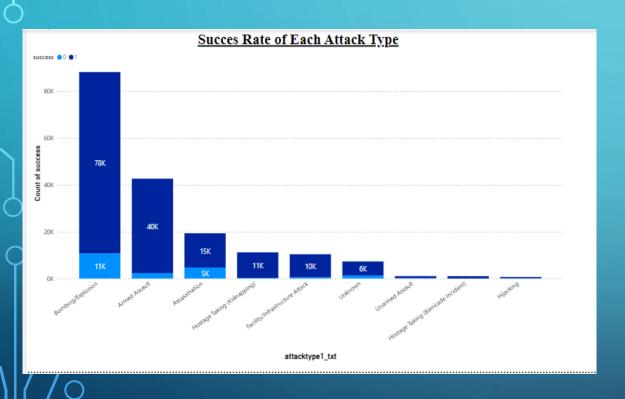
- Pie Chart was chosen to represent the proportion of Attack Types.
- The most type of attack in world terrorism is Bombing accounting for almost 50%, followed by Armed Assault account for 24% of the overall attack types.

## **ANALYSIS OF ATTACKS BY COUNTRY**



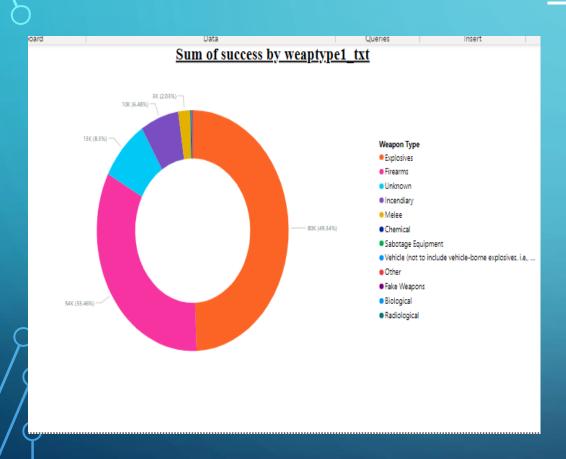
- Stacked column chat was chosen to show total number of attacks by each country.
- Iran followed by Pakistan has the most number of attacks indicating that they're prone to terrorist attacks.
- This also indicate that the countries need to improve their security services to curb deadly terrorist attacks.

# ANALYSIS OF SUCCESS RATE PER ATTACK TYPE



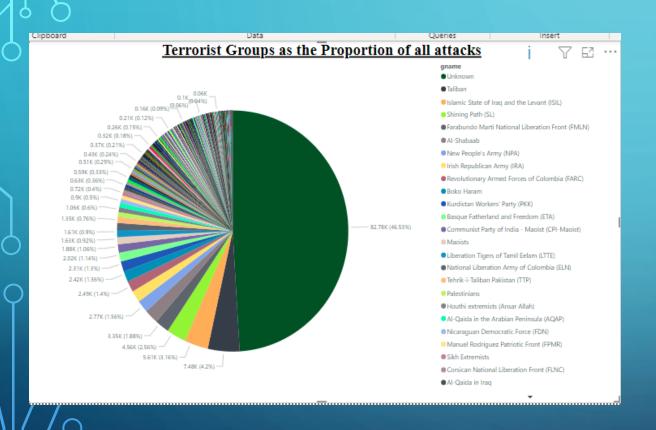
- Stacked column chart was used to show the success rate of each type of attack.
- From the chart, Hostage taking(Kidnapping)
   has the highest success rate of almost 100%
- This indicate that there's serious need to develop solutions to counter Hostage taking especially in countries like Iraq and Pakistan with highest numbers of attacks.

# ANALYSIS OF SUCCESSFUL ATTACKS BY WEAPON TYPE



- Pie Chart was chosen to analyze the proportion of successful attacks by weapon type.
- Explosives has the highest success rate accounting for almost 50% of the successful attacks followed by firearms and so forth.

# ANALYSIS OF TERRORIST ATTACK GROUPS.



 The most terrorist attacks are carried out by Unknown attack groups accounting for almost 50% of total attacks followed by Taliban, Islamic State of Iraq and the Levant, Shining Path going down the list.

# ANALYSIS OF WHICH GROUP IS MOST ACTIVE IN WHICH REGION



- I used a Geospatial Map to show the proportion of each terrorist group in different regions across the world.
- In Sub-Saharan Africa, the most active group is Al-Shabaab accounting for 42% of all the terrorist attacks followed by Boko Haram with 32%.
- This indicates that Al-Shabaab and Boko Haram are the most active terrorist groups in Sub-Saharan Africa all constituting 74% of the total terrorist activities.

# **CONT.. OF TERRORIST GROUPS**



- In the Middle East and North Africa, Houthi Extremist is the most active terrorist group constituting 17% of the total terrorist activities, followed by Al Qaida with 14%.
- In Western Europe, Basque Fatherland and Freedom is the most active group with 44% of the total terrorist attacks, followed by Corsican Liberation Front.

## **CONCLUSION**

#### **Summary of Key Findings:**

- Government and transportation facilities are primary targets of terrorist groups.
- Bombings are the predominant method, with severe impacts on civilian populations.
- The most used and successful weapon types are explosives.
- Europe and North America have managed to minimize terrorist attacks and total deaths due to terrorism.

#### **Implications**:

- Insights can inform policy and security measures.
- Important for strategic planning and resource allocation.

# **RECOMMENDATIONS**

#### • Actionable Recommendations:

- Enhance security at high-risk facilities.
- Increase international cooperation in intelligence sharing to combat terrorist attacks.
- Invest in community resilience programs to mitigate impacts of terrorism.

#### • Future Research:

- Deeper analysis of socio-economic factors influencing terrorism.
- Study the effectiveness of counter-terrorism measures over time.

# REFERENCE AND ACKNOWLEDGEMENTS

#### • References:

- Global Terrorism Database (GTD)
- National Consortium for the Study of Terrorism and Responses to Terrorism (START)

### • Acknowledgements:

Thanks to mentors, colleagues, and data providers.