

Introduction

Analysis of Global Terrorism Dataset (1986 - 2017)

Description:

The Terrorism Database contains information about terrorist attacks worldwide. It includes details such as the date, location, attack type, weapons used, number of casualties, and responsible groups. Your task is to create a Power BI dashboard that provides a comprehensive overview of global terrorism trends and patterns.

•Data Source:

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



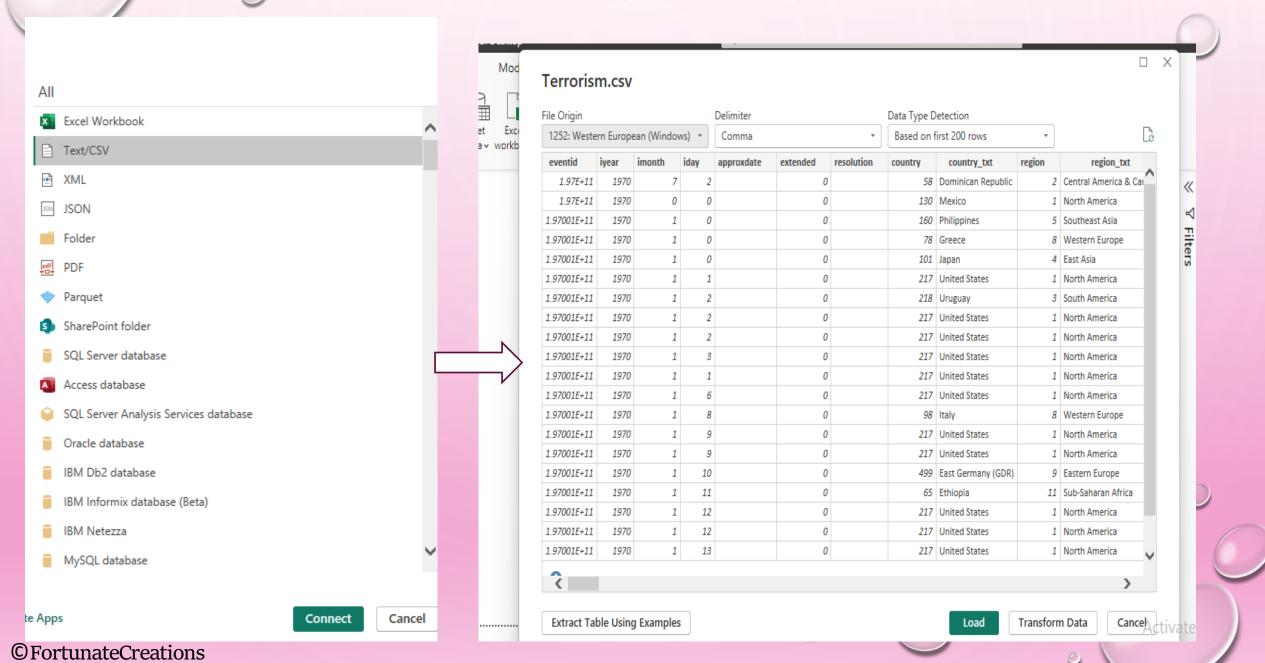
Objectives

- 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

Overview

- Data Loading
- Data Transformation
- Time Series Analysis
- Geospatial Analysis
- Trend Analysis
- Dashboard
- Insights
- Recommendation
- Reference and Acknowledgements

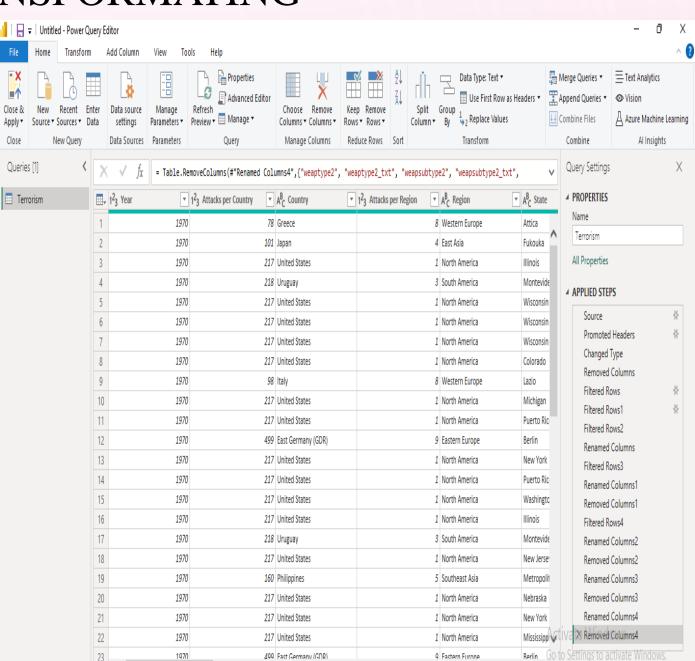
DATA LOADING





DATA TRANSFORMATING

- Filtered Rows
- Removed unnecessary Columns
- Renamed Header
 Columns



TIME SERIES ANALYSIS

Analyzed the number of terrorist attacks over time

Chart Type: Line Chart

Conclusion:

The highest number of attacks is 16903 in the year 2014



Analyzed the number of terrorist attacks per Country

Chart Type: Clustered Bar Chart

Conclusion:

Iraq has the most terrorist attacks – 24636
Pakistan has 14 368
terrorist attacks

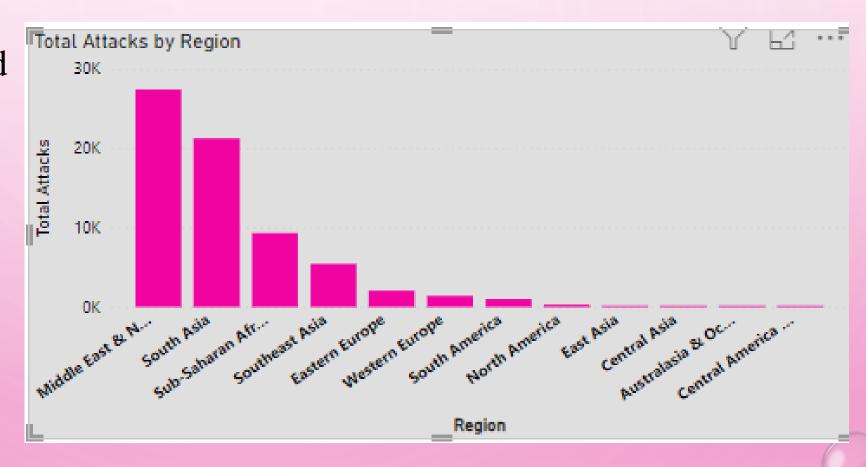


Analyzed the number of terrorist attacks by Region

Chart Type: Clustered Column Chart

Conclusion:

Middle East and North Africa has the most terrorist attacks – 27 430 South Asia has 21 264 terrorist attacks





GEOSPATIAL ANALYSIS

Visualized successful attacks on a map

Chart Type: Map

Conclusion:

Most successful attacks are in Iraq, Afghanistan and India



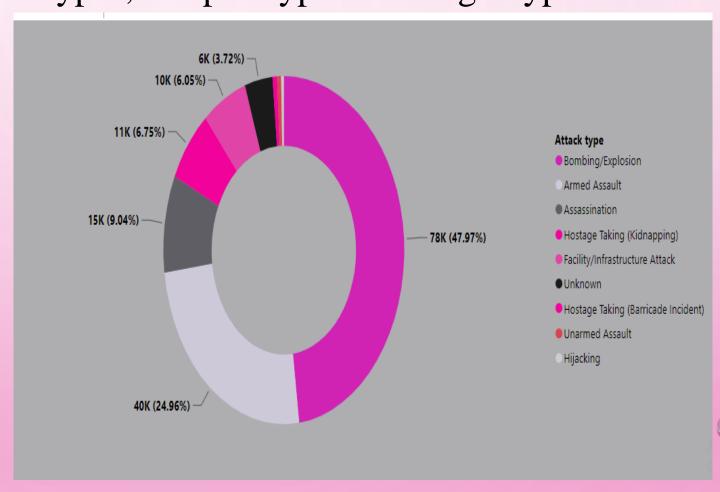
Analyze attack types, weapon types and target type

Success Rate by Attack
 Type

Chart Type: Donut Chart

Conclusion:

The most successful attacks are done using Bombing/ Explosives - 47.97%



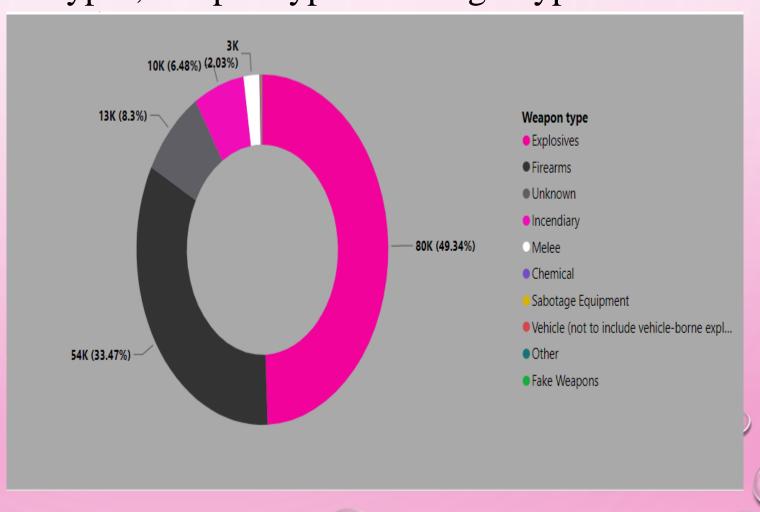
Analyze attack types, weapon types and target type

 Success Rate by Weapon Type

Chart Type: Donut Chart

Conclusion:

Explosives is the most commonly used weapon type in carrying out terrorism attacks with at percentage of 49.34%



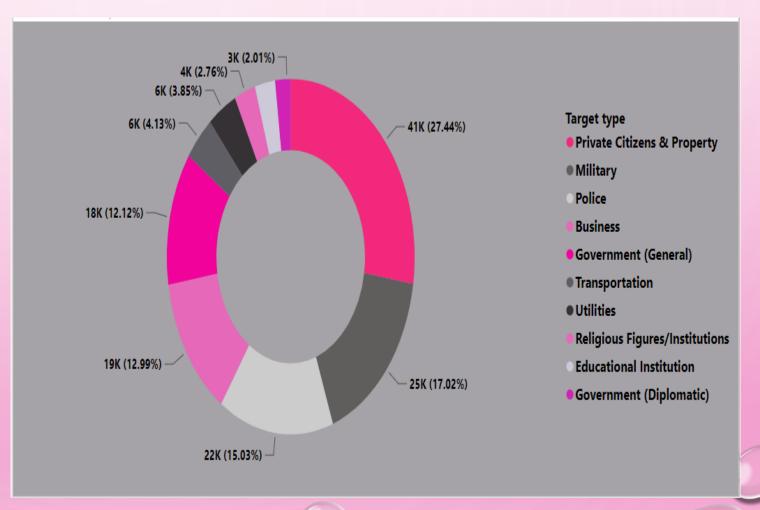
Analyze attack types, weapon types and target type

Success Rate by Target Type

Chart Type: Donut Chart

Conclusion:

Private Citizens and Property is the most targeted group at 27.44% followed by the Military at 17.02%

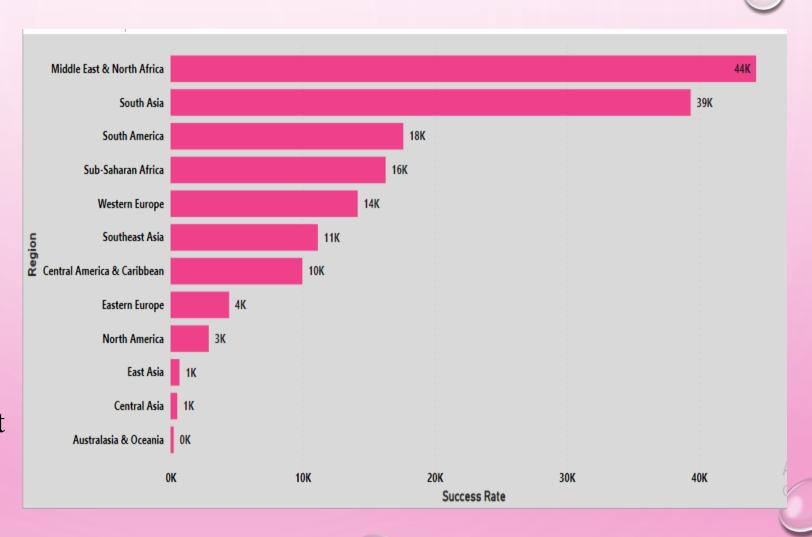


Success Rate by Region

Chart Type: Clustered Bar Chart

Conclusion:

Terrorist Attacks are more successful in the Middle East & North Africa and South Asia

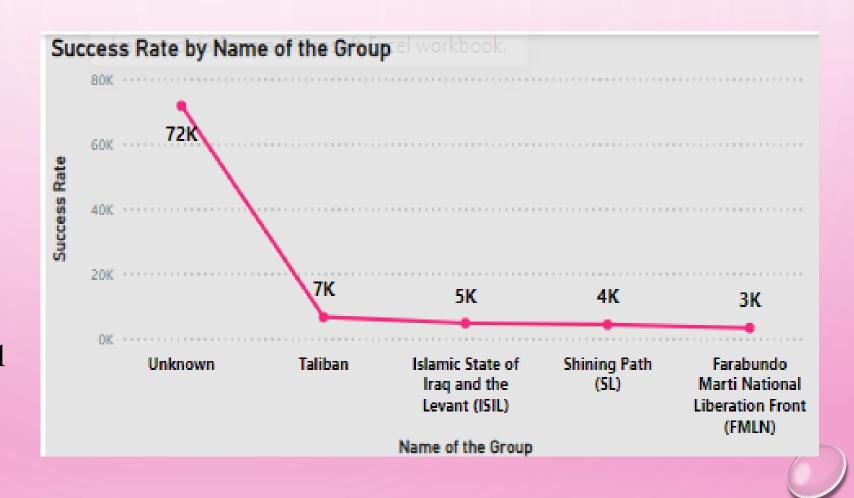


• Success Rate by Group Name

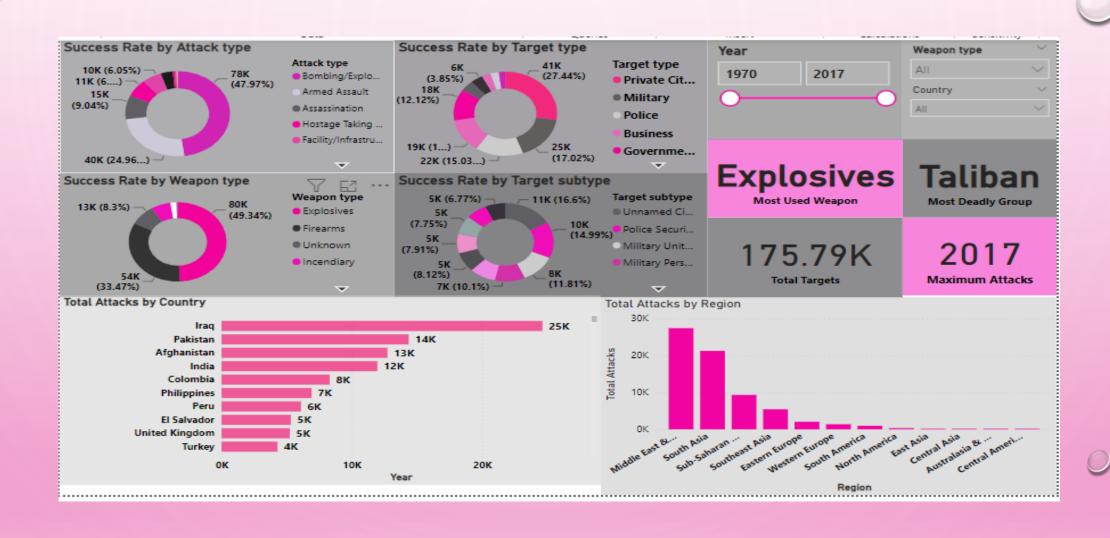
Chart Type: Line Chart

Conclusion:

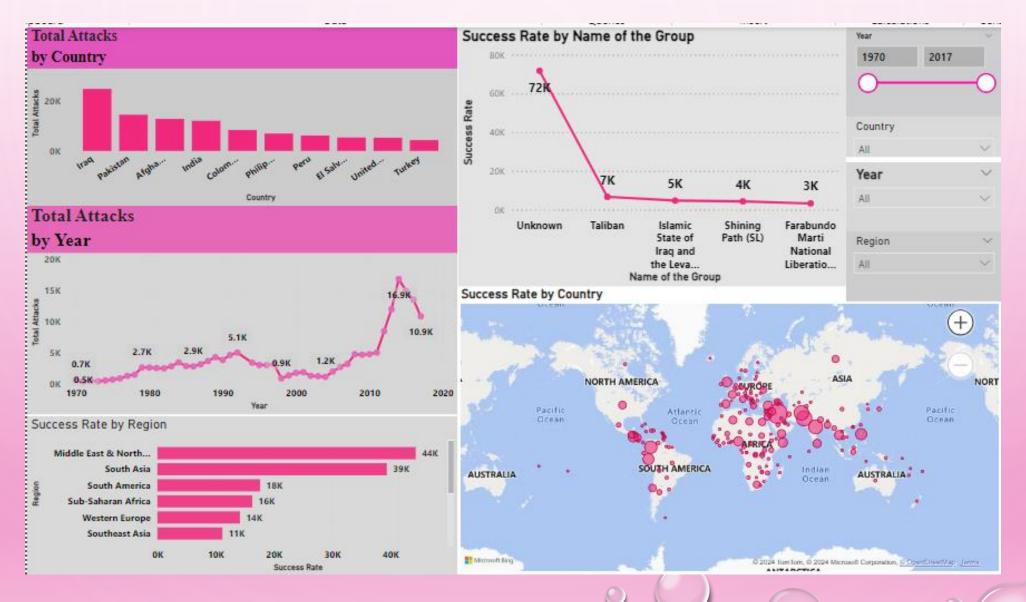
The most successful terrorist group is the Unknown with 71 748 successful attacks followed by the Taliban with 6680 successful attacks



GLOBAL TERRORISM DASHBOARD

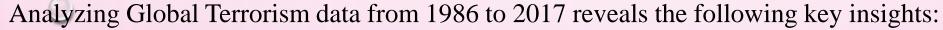


GLOBAL TERRORISM DASHBOARD

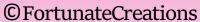




Summary and Key Insights



- 1. Most affected Countries are Iraq, Pakistan, Afghanistan and Colombia
- 2. The most affected regions are Middle East & North Africa, South Asia and South America
- 3. The highest number of attacks is 16903occurred in the year 2014
- 4. The most successful terrorist group is Unknown the followed by the Taliban Private Citizens and Property are the most targeted group at 27.44%
- 5. Explosives are the most commonly used weapon type in carrying out terrorism attacks with at percentage of 49.34%
- 6. The maximum number of attacked occurred in 2017





RECOMMENDATIONS

•Actionable Recommendations:

Enhance security at high-risk facilities.

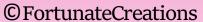
Increase international cooperation in intelligence sharing to combat terrorist attacks.

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:

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