Homework 4

# Tableau Tasks

### Global Terrorism Heatmap

Eastern Europe Heatmap showcasing the number of attacks in each country.

Converted Year (Number) -> Date. Gradient for colors based on the count of events (attacks). Set alias for West Germany as Germany

* Most attacks seem to have been concentrated in UK, Spain, France, Italy and Germany
* UK has had 200+ attacks 4 times.
* There were a lot of attacks across Europe during 1979.
* Recently the attacks seem to have been reduced.

### Terrorist Group Comparison

Stacked area chart showing the activity of the top 10 terrorist groups by year. Setting a filter on Group Name to select the top 5 based on the *EventID* count.

* Most Terrorist attacks have been from Unknown groups.
* IRA has been responsible for a lot of attacks.
* ETA has also been responsible for significant attacks.
* Neo-nazi extremist had a lot of attacks in 1992.
* PKK conducted lot of attacks in 1995
* Most attack groups have been unknown since 1996.

### Attack Types and Casualties

Scatter plot showing a comparison in attack types based on the casualties and no. of attacks.

* Bombings and explosions had the biggest impact with most attacks and wounded.
* Assassinations turned out with most kills.

### Monthly Trend Analysis

* Bombing is the most common attack type across all the top 5 countries and months.
* Most Assasination events in Spain.
* Most Attacks in UK.
* Rise in attacks around new year and middle of the year around May.

# PowerBI

### Geospatial Analysis of Attacks

Bubble size based on casualties (wounded + killed). Red accents on white map for clarity and association with *harm.* Slicer and drop down for year and region. Transparent background so that they don’t block the visualization.

* Most attacks seem to have been concentrated in UK, Spain, France, Italy and Germany
* Most attacks have been seen centered around big cities.

### Terrorist Group Comparison

Multi-row card visual showing key metrics for the top 5 terrorist groups. Rounded corners and shadows for better visibility. Slider to easily filter data based on years.

* IRA has the most attacks and kills and wounds.
* FLNC has the highest success rate.

### Weapon Type Analysis

Treemap of different weapon types with drill down functionality including the subtypes.

* Explosives have been the most commonly used weapon type by far.
* Followed by handguns.

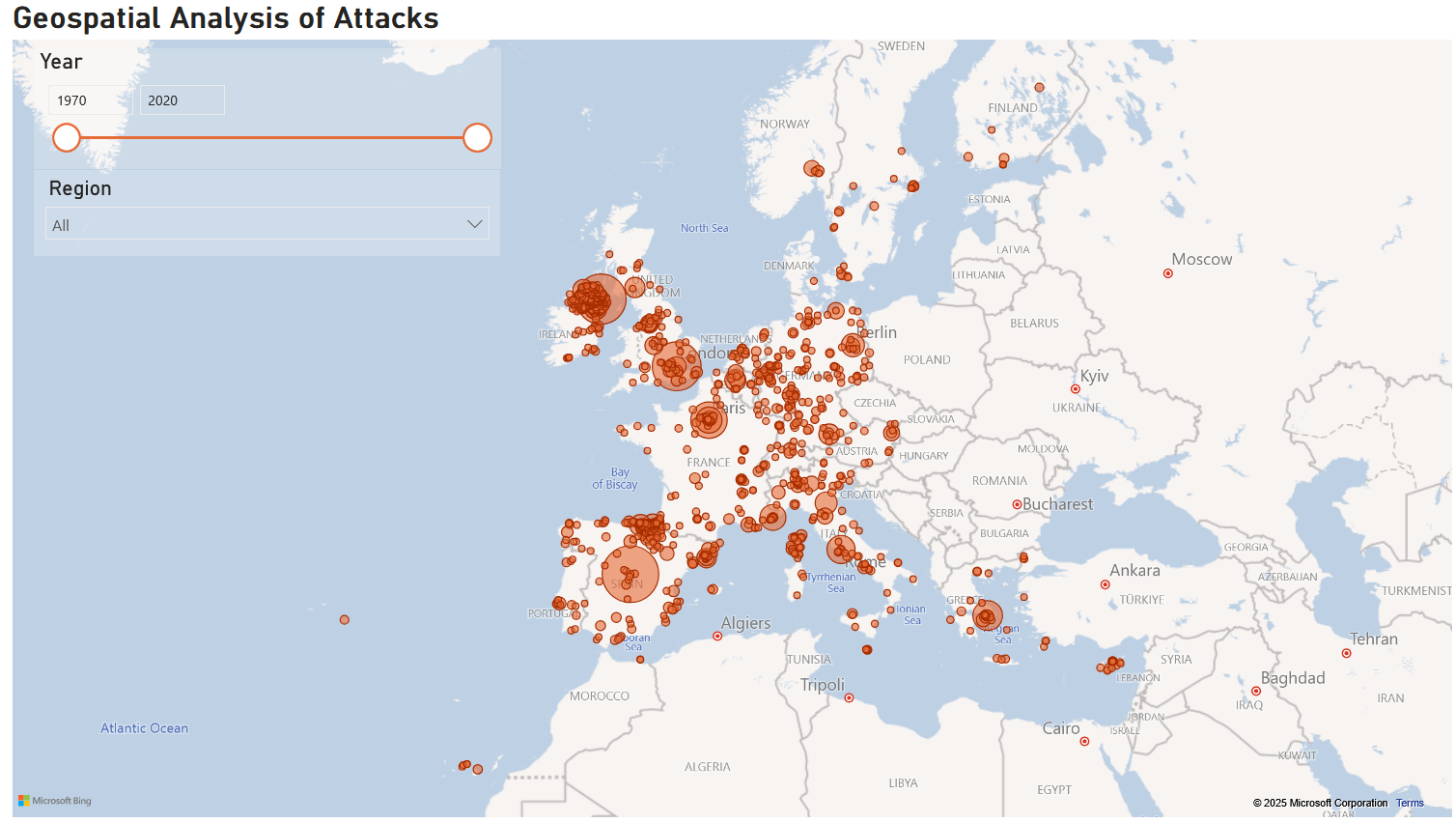
### [Target Analysis Dashboard](https://app.powerbi.com/groups/me/dashboards/7340063f-10d9-49bb-b71a-4c387599220b?experience=power-bi)

Comparing wounds and kills in clustered chart. Since the graph is interactive kept the low values in the donut chart. Legend only displays the top Targets.

* Businesses specifically Banks have been a target for most attacks.
* Most casualties are of civilians on a Train in Spain.
* Most deaths Boeing 747 aircraft attack.

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A map of europe with orange and white colors

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