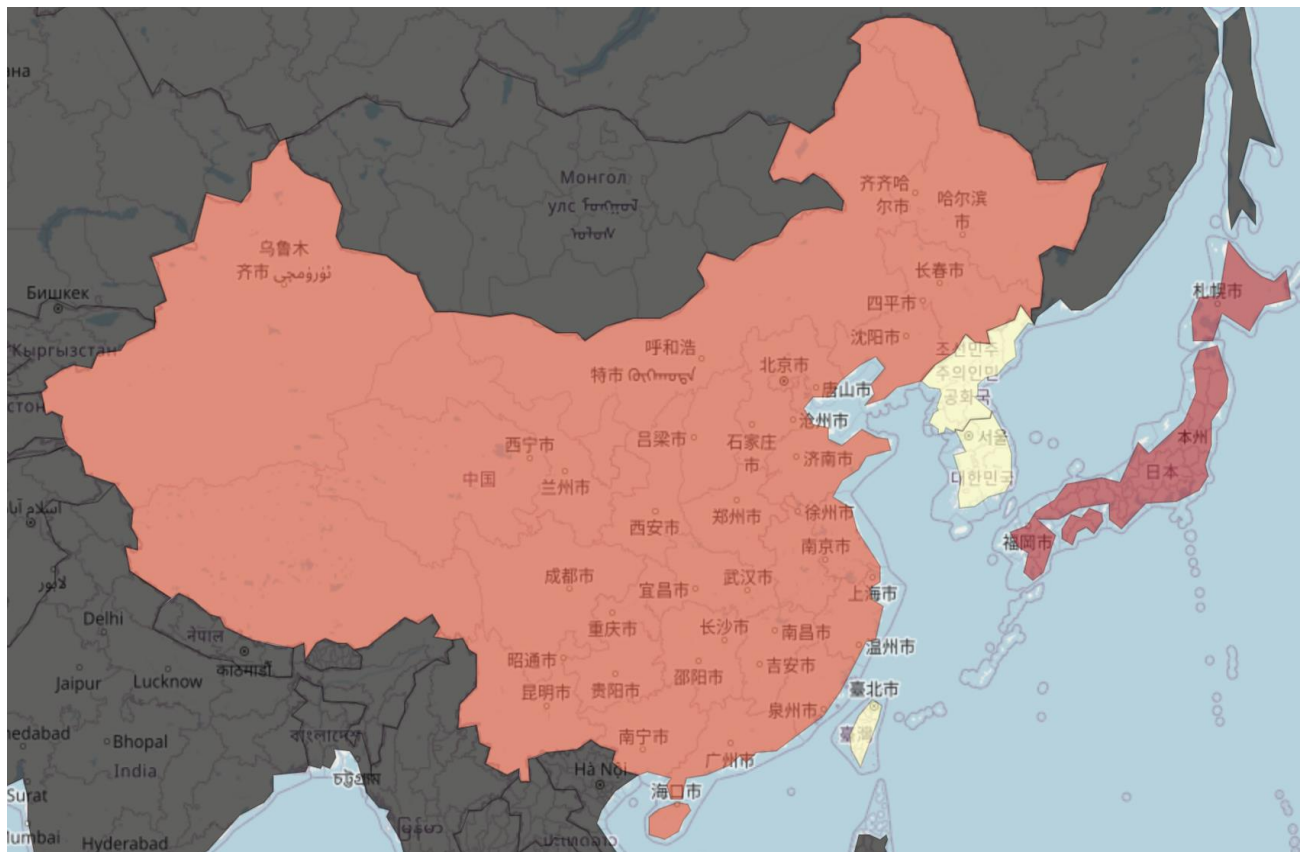


HomeWork 2

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- **Geographical distribution of incidents**

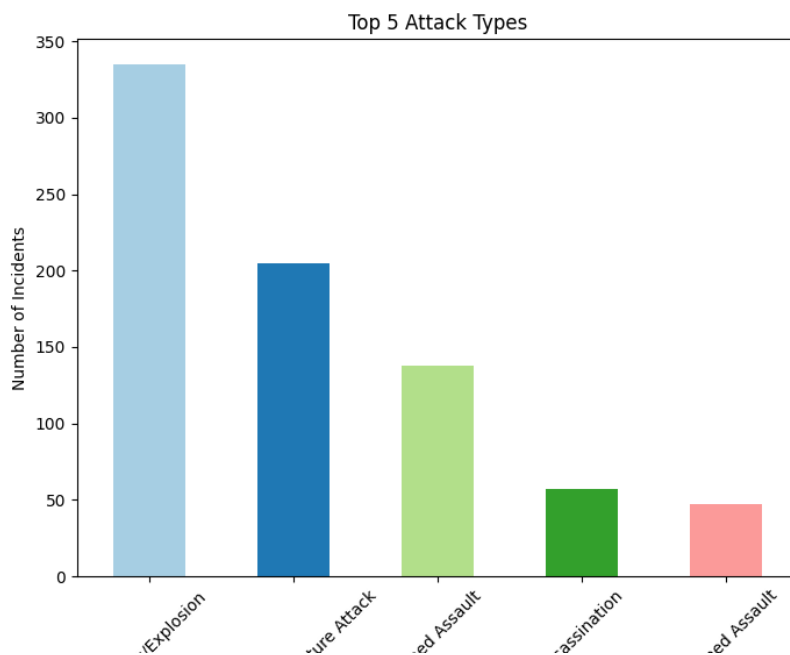
- The choropleth map highlights the varying distribution of incidents across different countries.
 - Countries with darker shade indicates regions with higher terror incidents occurred.
 - Through the map we can identify countries with high terror activities in that region (Ex: China and Japan have been subjected to terror attacks more in the SEA (southeast Asia) region than any other countries.)
- For detailed distribution of incidents, we can get insights from the heatmap where we can notice which parts of the country have been more targeted to terror attacks.





- **Most Common Attack Types**

- A frequency analysis reveals that the most prevalent attack types are:
 - Bombing/Explosion
 - Facility/Infrastructure Attack
 - Armed Assault



- **Trends and patterns observed in the time series analysis**

- From the line plot and decomposition analysis.

- **Overall Trend:**

- The trend line shows a steady rise from the late **1970s**, peaking around **1990–1995**, followed by a gradual decline.
 - This suggests that the number of incidents increased significantly during this period and then declined in the early **2000s**, potentially due to improved security measures or policy changes.

- **Seasonality:**

- The seasonal component exhibits regular oscillations, implying a cyclical pattern of incidents recurring annually.
 - The seasonality is relatively consistent, indicating that there may be certain times of the year when incidents are more likely though the magnitude is not very high.

- **Residual:**

- There's a relatively random distribution around zero, but some noticeable spikes and drops suggest the presence of external shocks or anomalies.

