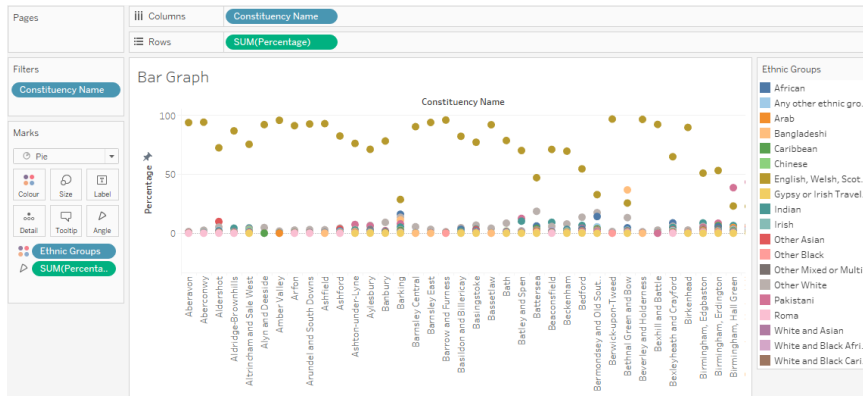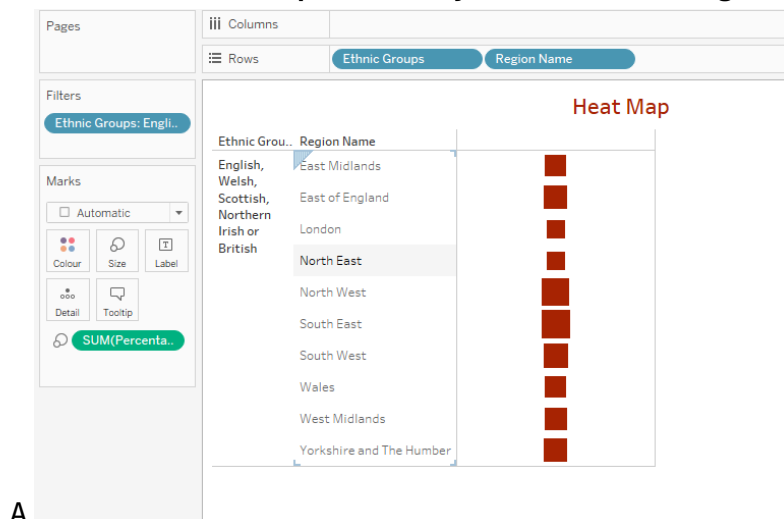# Data Visualization

I have analysed, cleaned and prepared the data set before I started visualizing it. I have inserted columns in excel to complete the data set as it had missing information.

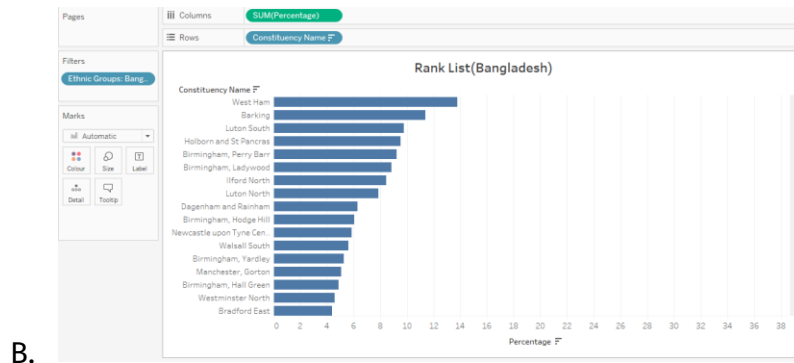**1. What is the ethnic composition of each constituency?**

Above I have prepared and cleaned the data set to show the ethnic composition of each constituency visualised in a bar graph.

2. How does ethnic composition vary across different regions?

A.

B.

Above I have compared the distribution of broad ethnic groups (English, Welsh, Scottish, Northern, Irish or British) visualised in a heat map for question A, and for B I created a ranked list focusing on Bangladesh.

3. **How do regional and national percentages of ethnic groups compare to constituency percentages?**

Above I have created a scatter plot displaying national percentages of ethnic groups compared to constituency percentages.
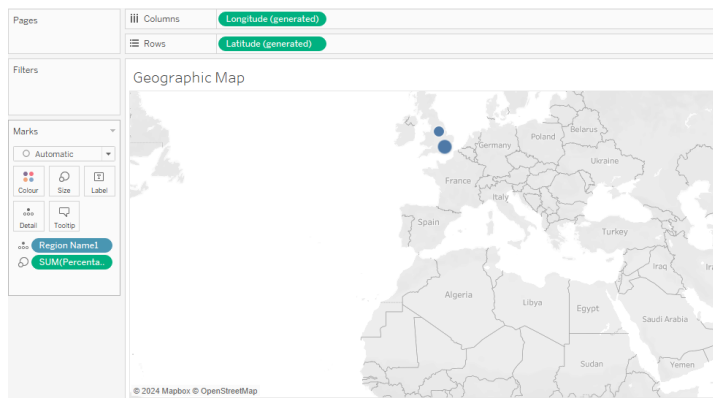
4. **What are the trends in ethnic diversity over time (if historical data is available)?**

   Unfortunately, I couldn't recover any historical data to analyse a trend.

5. **Is there a correlation between ethnic diversity and socioeconomic indicators (e.g., income, education)?**
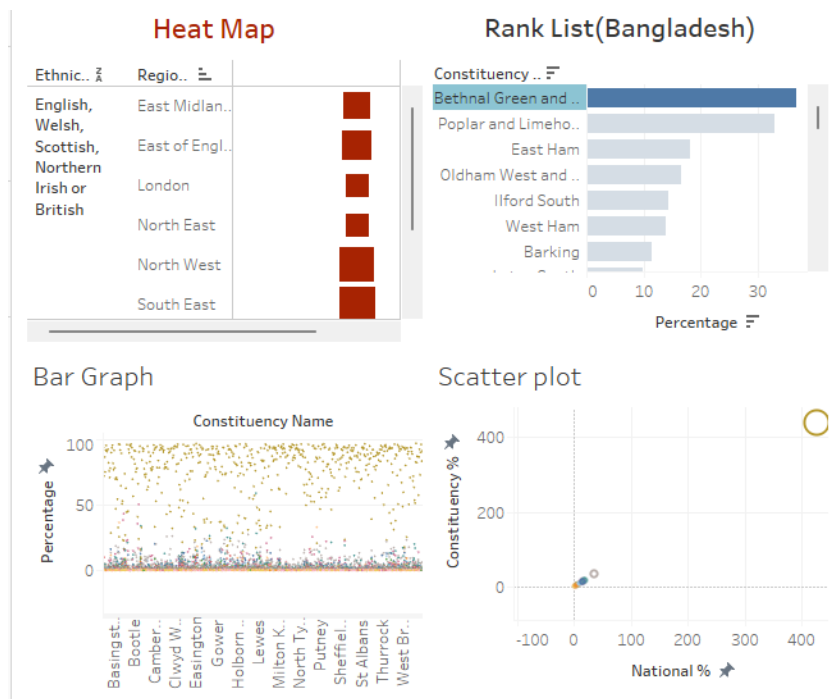
   There is no correlation as there is no income or education or socioeconomic indicators in this data set.

6. How is ethnic diversity distributed geographically?

Above I have created a Geographic map displaying ethnic diversity.

7. Can we create interactive dashboards for real-time data exploration?

Above I have created a dashboard displaying visualizations that I have created on tableau. This includes a heat map, rank list, bar graph and scatter plot. These visualizations display actionable insights to policy makers.