**A1: Visualization Basics with Tableau**

In this assignment, I worked with the life expectancy dataset. This dataset contains life expectancy at birth data from various countries over several years. The columns available are Entity, Code, Year, and Period life expectancy at birth – Sex: all – Age: 0. The column "Entity" refers to the country or region, while "Code" refers to the code of the country/region. The columns "Year" and "Life expectancy" are self-explanatory.

The first view I created is the Median Life Expectancy view, which is a line plot with years on the x-axis and the corresponding median life expectancy on the y-axis. I added a linear trend line and the number of distinct values in the "Entity" column as a tooltip. As expected since World War II, there is a steady increase in life expectancy, although there are more fluctuations in earlier years, likely due to wars and/or insufficient data.

In the second view, the world map is coloured green according to life expectancy in 2021, the latest date in the dataset. It shows that life expectancy is generally high in Europe, Australia, and North America, moderate across Asia and South America and low in Africa.

The third view is a scatter plot where each datapoint represents a year, and the coordinates represent the maximum and minimum life expectancy values for that year. This plot indicates a positive correlation between the minimum and maximum life expectancy values.

I also created a bar chart showing the number of observations for each country. It reveals that European countries, along with the United States, have the most data observations. Additionally, these countries generally have high life expectancy, as indicated by the bars colored according to the maximum life expectancy value.

My dashboard consists of these four views, allowing users to filter by a specific country or subset of countries using the map view. This feature facilitates focused analysis of the data for selected countries or subsets using the other three views.

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Link for the dashboard: [link](https://public.tableau.com/views/A1_17107720704030/MapDashboard?:language=en-US&publish=yes&:sid=&:display_count=n&:origin=viz_share_link)