William Kelly
MBA 562
Data Visualizations

For this assignment I used the World Happiness Report 2021 from Kaggle.com
Reference to Data: https://www.kaggle.com/ajaypalsinghlo/world-happiness-report-2021

The tools I used for the Data Visualization assignment are Tableau and Excel. I've created two different plots for each tool in the form of a bar plot and line plot.

Capability:
I feel like the capability of Tableau is similar in functionality when compared to excel. Tableau provides many functionalities to customize the title, axis, data labels, legend, color scheme and so forth. Excel also provides these capabilities but is a little bit more involved when setting up the capabilities & customizations to set. I also like that Tableau has many resources online to model which provides various templates to use. Also, Tableau and Excel do a good job in overlaying different categorical data sets such as in the Happiness Report giving the ability to overlay different characteristics of the Happiness Report like GDP, Generosity, Freedom of Life Choices, and Perception of Corruptions. Also, both tools give a range of different charts to create data visualizations which provide flexibility in analyzing the data sets. In addition, what is good about Excel is that you can easily copy and paste chart into a Word Document allowing the user to edit the chart within the Word Document rather than go back to original tool to make edits.

Ease of Use:
I think that Tableau is a straightforward tool to use when creating Data Visualizations. Since it's my first-time using Tableau, I used some tutorials online to set up the chart customizations at first, but in the end the user interface and importing the data was a simple process. Through Excel, there were a few more steps to perform before creating the plots such as calculating the SUM of each category which in comparison to Tableau it calculates the SUM automatically or can adjust to a different measurement method such as AVG. I also like how you can click and drag what data you would like in the Rows and Columns of Tableau application making it easy to use. Overall, both tools provide a simple user interface, but I feel like Tableau's user interface simplifies the process even more than excel but just takes some practice getting used to the tool functionality.
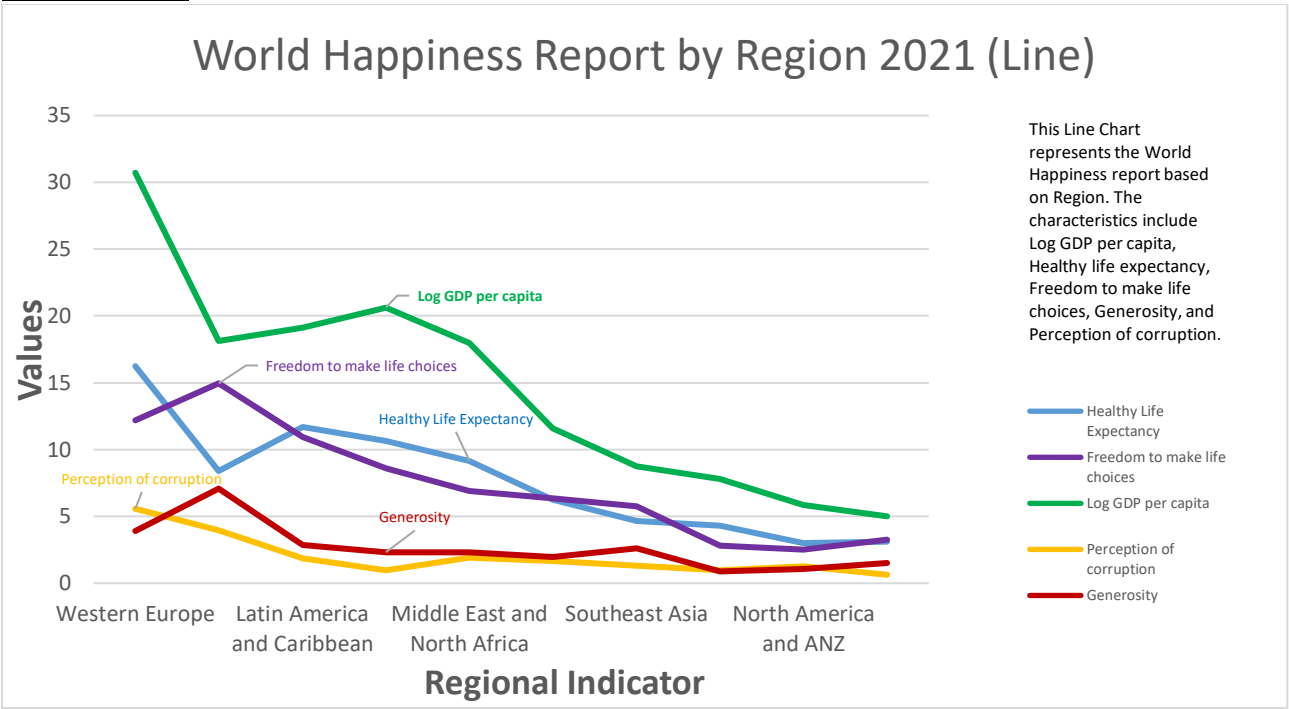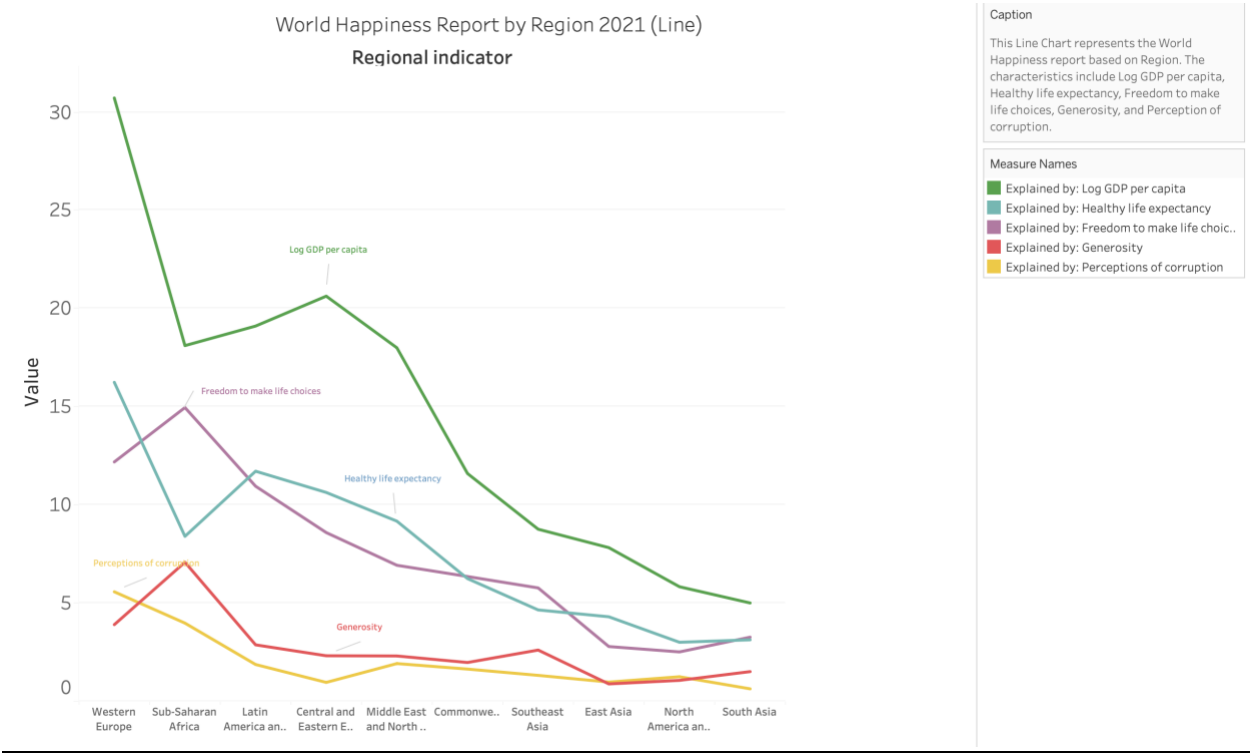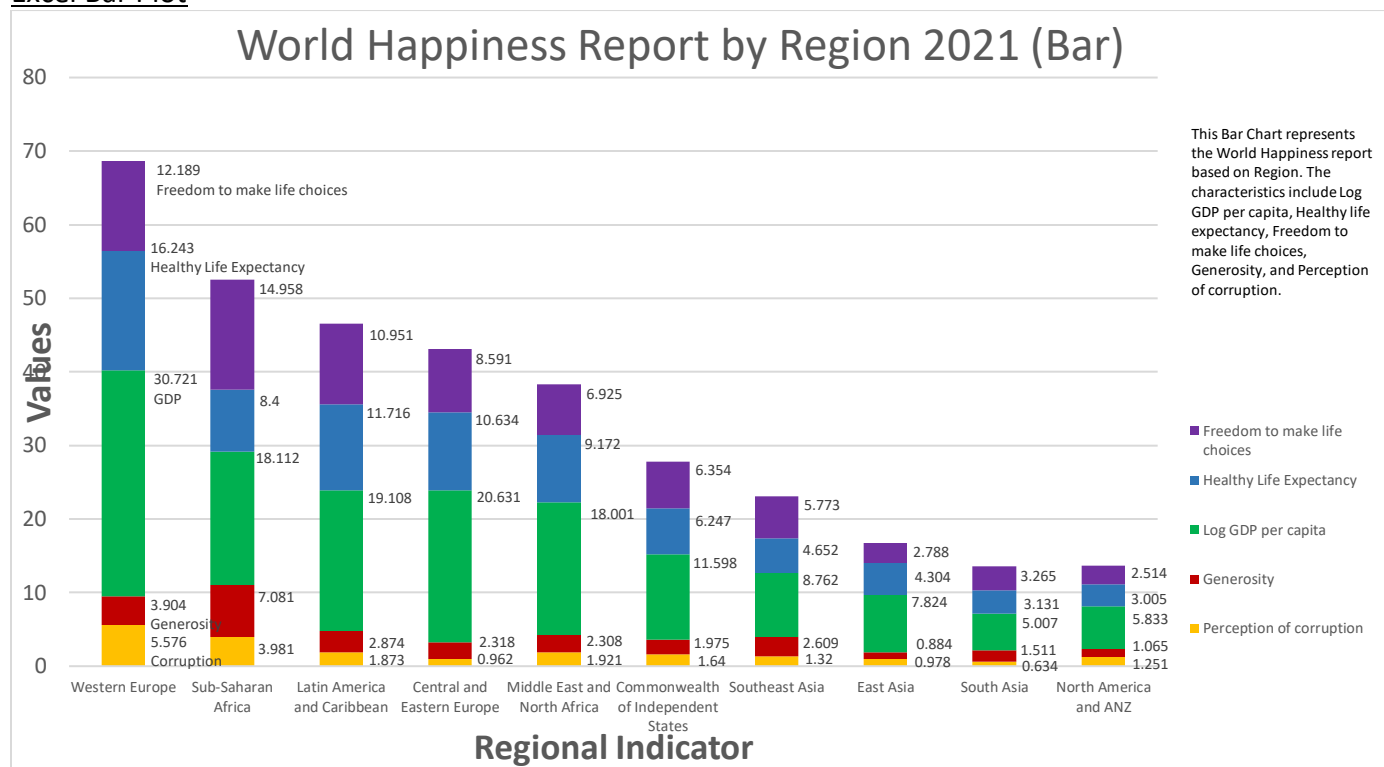
Excel Line Plot

World Happiness Report by Region 2021 (Line)

Tableau Line Plot

Excel Bar Plot

World Happiness Report by Region 2021 (Bar)

This Bar Chart represents the World Happiness report based on Region. The characteristics include Log GDP per capita, Healthy life expectancy, Freedom to make life choices, Generosity, and Perception of corruption.

Legend:
- Freedom to make life choices
- Healthy Life Expectancy
- Log GDP per capita
- Generosity
- Perception of corruption

Tableau Bar Plot

World Happiness Report by Region 2021 (Bar)

Caption

This Bar Chart represents the World Happiness report based on Region. The characteristics include Log GDP per capita, Healthy life expectancy, Freedom to make life choices, Generosity, and Perceptions of corruption.

Measure Names
- Explained by: Freedom to make life choices
- Explained by: Healthy life expectancy
- Explained by: Log GDP per capita
- Explained by: Generosity
- Explained by: Perceptions of corruption