Instructions for Project 7: Comparing Life Expectancies

For this final Excel project, you will showcase the Excel skills that you have gained this semester, including filtering, creating scatterplots and working with linear regression. In the Project 7 Solution Template, please answer all the questions with complete sentences and proper grammar.

Instructions:

Life expectancy at birth is defined as how long on average a newborn can expect to live, if current death rates do not change. The data for this project comes from the Organisation for Economic Co-operation and Development and considers the life expectancies at birth for several different countries.

Steps:

1. In Excel open the Project 7 document, and open the tab labeled Comparing Life Expectancies

2. Use the spreadsheet entitled Life Expectancy Data to filter the data to find the life expectancy for Japan, United States of America and Slovakia from 1970 to 2011 and copy and paste the data into the spreadsheet entitled Comparing Life Expectancies.

3. Use the data to create a scatterplot of all three data sets on the same set of axes.

    - See Project 6 instructions about how to create a scatterplot

    - Make sure to properly label the graph (titles, axis titles and legend titles)

        - To change the series name in the legend right click on the data and click on select data.

        - On the left hand side select Series 1

        - On the right hand side in the text box entitled name type in the name of the country that corresponds to Series 1

        - Repeat the above for Series 2 and Series 3

    - Rescale the vertical axis (like in the last project) to start at 67

    - Paste your scatterplot as the answer to Question 1C. Note that if you change your scatterplot in Excel after pasting, the changes might automatically update to the pasted version in Word! One way around this is to make a second scatterplot to use for the rest of this project.

4. Add the linear regression line, equation and R^2 value as you did in Project 6 to each of the three sets of data.

- Click anywhere in the chart
- In the top menu bar select the Layout/Chart Layout tab
- In the Analysis section click on Trendline
    - If you don't see an "Analysis" section, click on the chart, look for Chart Design tab > Add Chart Element > Trendline > Linear
- Click Trendline options in the dropdown menu (if applicable)
- Select the series you want to add the line to
- In the line menu, select Weights and Arrows to change the type of the line and the thickness of the line
- Add the equation and R^2 value as you did in Project 6