Activity 1.4: Using Chart Builder in SPSS

This exercise is designed to provide the opportunity to practice the techniques covered in Module 1, Lesson 4. The activity consists of three parts:

A. Defining variable properties in variable view
B. Frequency distributions and Descriptive Statistics
C. Chart Builder

This activity uses the file **health_funding.sav** which has been adapted from real data collected from the Health Department, City of Aubrey. The dataset contains six variables on 50 observations. The data has been tidied up a little, but is fundamentally as it was when initially collected.

The variables are as follows:

- funding (Scale)
- disease (Scale)
- visits (Scale)
- citycode (Label = municipal registry, measure = ordinal; Categories: 1 = 1 thru 10, 2 = 11 thru 20, 3 = 21 thru 30, 4 = 31 thru 40, 5 = 41 thru 50).
- Region ((Label = location, measure = ordinal; Categories: 1 = Northside, 2 = Wellsprings, 3 = Checkersville, 4 = Martinsdale; Decimals = 0).
- Status ((Label = status of funding case, measure = nominal; Categories: 0 = closed, 1 = current; Decimals = 0).
- index (Label = record index, measure = Scale; Decimals = 0).

Part A. Defining Variable Properties.

Complete the following steps.

1. Open the SPSS file **health_funding.sav** in SPSS
2. Make column widths adequate if they are not.
3. In the values column, code the categorical variables with the codes given above.

4. In the Measure and Decimals columns, make the changes to the values as given above.
5. Save the new file to an appropriate directory, clicking on **Paste** to create the syntax file.

Part B. Frequency Distributions and Descriptive Statistics.

1. By writing in the syntax file, get the frequency table for the variable Region.
2. By writing in the syntax file, get descriptive statistics for the variables **funding, disease**, and **visits**.
3. Run the syntax to create the output.

Part C. Using Chart Builder to Create a Stacked Bar Chart.

1. Select **Graphs > Chart Builder** to bring up the dialog box.
2. Select *Stacked Bar* from the Gallery.
3. Drag the stacked bar chart picture to the Chart preview canvas.
4. Drag the column variable, **Region**, to the X-Axis?
5. Drag the variable, **Status**, to the **stacked set color** (cluster) box.
6. Click **Element Properties** to open the Element Properties dialog box if it is not already open.
7. Select **Percentage(?)** from the Statistic drop down menu.
8. Click **Set Parameters** and select **Total for Each X-Axis Category**. Click **Continue**.
9. Up at the **Elements Properties** main menu, click on the **Chart Appearance** menu.
10. Under **Cycle order**, highlight **Category 1**, then from **Available Colors**, choose a color for the top stack of the bars.
11. Under **Cycle order**, highlight **Category 2**, then from **Available Colors**, choose a color for the bottom stack of the bars.
12. Click on the **Elements Properties** main menu scroll down to Title 1. Inspect the title SPSS gave to the chart under **Automatic**. If you are okay with this title leave it on automatic. If not, click the radio button on **Custom** and write in the title you prefer.
13. Click **Apply**
14. Click **Paste.**
15. Run the syntax to create the output.

★ Please create a copy of the Excel file and use the duplicate to complete the activity. Ensure no changes are made to the shared file