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D601 – Data Storytelling for Varied Audiences

Task 1: Building an Interactive Dashboard

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Instructions: Interactive Tableau Dashboard

**Part 1: Introductory Steps to Open Tableau and Dashboard**

1. Start the Tableau Desktop application by double clicking on the desktop icon.
2. Hover your mouse over the ‘File’ tab at the top of the application window.
3. Move the mouse down and click ‘Open’.
4. Find ‘D601 Task 1 Tableau Dashboard.twbx’ among the files.
   1. If not available in the current folder:
      1. Click on the ‘Desktop’ icon from the horizontal list to the right.
      2. Click on the search bar in the upper right-hand corner and type part or all of: D600 Task 1 Tableau Dashboard.twbx
         1. If present, continue to Step 5.
         2. If not present, download the file.
5. Click on ‘D601 Task 1 Tableau Dashboard.twbx’, making sure that the file is highlighted grey and the name is populated in the text box below.
6. Click the ‘Open’ button. The correct dashboard should appear on the screen.

**Part 2: Visuals**

The interactive Tableau dashboard features several notable components. At the top of the dashboard, there are two maps of the United States. On the left, there is a map of featuring percent of readmission by state. On the right, there is a map featuring the average number of medical conditions by state. Both of these maps have interactive controls that allow the user to filter the respective minimum and maximum values are displayed geographically. Instructions are below in Part 3. Below the maps, there are two charts. On the right, a chart featuring 6 bars, illustrating whether or not a patient is readmitted based on the initial number of days hospitalized and complication level. To the left is a line graph featuring the percent of readmission by patient dietary habits, which is a combination of the number of meals per day and whether they consume more than three soft drinks per day. This line graph can be modified in the dashboard by selecting filters on conditions diabetes, overweight, and gender, as explained in Part 3.

**Part 3: Interactive Controls and Instructions**

The maps are controlled by the sliding scales positioned at the top of the right-most vertical container. The hue of the states on the maps represent the comparative value of percent of readmission or number of medical conditions per state. A darker hue represents a comparatively higher value. The states that appear can be modified using the appropriate filters. The line graph at the bottom right corner can also be modified with the filters at the bottom of the right-most vertical container. Usings these filters will adjust the graph to include or exclude patients with or without diabetes, categorized as overweight, or patient gender. To use the filters, follow the instructions below:

1. Determine which filter will be applied.
   1. For filters with a sliding bar (for each map):
      1. Slide each of the end slider until the desired numbers appear. The number on the left represents the minimum and the number on the right represents the maximum.
   2. For filters with checked boxes, all options for each category will appear next to a box, including the option ‘All’. These box will be either checked or unchecked:
      1. If box is presently checked:
         1. Uncheck to remove dimension from calculation.
      2. If box is not presently checked (empty):
         1. Check to add dimension to calculation.
      3. Check ‘All’ if you prefer for all options within a dimension to be used for calculating the respective readmission and dietary habits.
      4. Uncheck ‘All’ if you prefer for all options within a dimension to be removed from calculations of readmission and dietary habits.