CGT 270 Data Visualization Fall 2021

Module 1

Week 4

**Lab 4: Filter & Represent**

The goal of this lab is to filter and visually represent your **Tableau Training Data**. In this lab you will list two questions you want to answer with your Tableau Training data, filter the data to extract only the data needed to answer the two questions and generate visualizations of the filtered data.

By the end of this lab you should be able to:

|  |  |
| --- | --- |
| Remember | ***Describe*** what happens in the **represent** stage. |
| Understand | ***Describe*** what stages are impacted by the **represent** stage and how. |
| Apply | ***Demonstrate*** the ability to use the appropriate visualization tool/chart/layout for the task. |
| Evaluate | ***Determine*** if the data is sufficient or if additional data is needed. |
| Analysis | ***Determine*** if sufficient data is available to visually represent the data. |
| Create | ***Plan, generate, and produce*** insightful visualizations. |

You should create two visualizations. For each visualization provide a paragraph to support the visualization. You may use any visualization tool of your choosing. Make sure you use data visualization best practices (See Data Visualization Check list).

Take a screen capture of your visualizations and save each visualization as a separate .jpg file:

LastnameFirstInitial\_Fig1.jpg

LastnameFirstInitial\_Fig2.jpg

**(PNG files WILL NOT be graded)**

Upload your supportive paragraphs in this file.

Fig1 Caption: Which Athlete’s got paid the most in the year 2014?

I was able to create these visualizations in Tableau using the stacked bar feature. This turned out to be my favorite type of visualization for my dataset. Using the stacked bar graph feature I put the salary amount for my y-axis and the athletes name, endorsements and 2014 pay as my x-axis.

A picture containing text, measuring stick

Description automatically generated

Fig2 Caption: How many Athletes got paid the same amount?

I used the side-by-side bar feature to create the visualization for this question. By using the side-by-side bar feature I was able to compare the lines between two or more athletes and determine if they got paid the same amount or if one of them got paid more than the other.

**Chart, bar chart

Description automatically generated**