

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

#### Part I: Filter & Represent Activity Worksheet

Use the following link to complete the Filter & Represent Activity Worksheet  
<https://tinyurl.com/Filter-and-Represent-Worksheet>

Your responses will be emailed to you. Save your responses as a PDF file.

You should create a minimum of two visualizations from the same data set (the Tableau data set)

For each visualization provide a paragraph to support the visualization (in a separate file). 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:

**This pie graph represents the 10 most popular baby names in the United States between the years 1910 and 2012. It shows that the names Mary and Michael are two of the most popular baby names in the US between this time as they are the largest sections of the graph.**

Add more pages if needed.

**Fig2 Caption:**

**The data represented in the bar graph shows the top 10 baby names in the US from 1910-2012 and their occurrences. From the graph, we can see the names Mary and Michael occur much more often, more than 500K than any other of the popular baby names listed.**

**Fig3 Caption:**

**This visualization shows the most popular male and female baby name in each state in the year 2012.**

**Fig4 Caption:**

**This visualization shows a map of the top baby names in each state in 2012.**