



Tableau Mini-Projects

Data Boot Camp
Lesson 18.3



Class Objectives

By the end of this lesson, you will be able to:



Perform exploratory data analysis using Tableau.



Clean data before creating visualizations.



Create Tableau dashboards.



Present a Tableau Mini-Project



Activity: Global Superstore Warm-Up

In this activity, you will work with sales from a fictitious company to find insights through visualization.

Suggested Time:
20 Minutes



Instructions:

Activity: Global Superstore Warm-Up

- Explore the data by creating visualizations of your choosing.
 - Focus on data exploration rather than obtaining predefined visualizations.
 - You are encouraged to come up with interesting and creative visualizations, and you are free to bring additional data sources into the workbook.

- **Bonus:**
 - If you finish early, try combining your visualizations into a dashboard!

- **Hint:**
 - Don't forget to save to Tableau Public once finished.





Let's Review



Activity: Airline Safety

In this activity, you will explore the safety of the world's airlines.

Suggested Time:
15 Minutes



Instructions:

Activity: Airline Safety

- Perform an open-ended exploration of the data. some questions to consider include:
 - What are the safest airlines in the world, and how do we define the idea of safety?
 - Can we group airlines by region to determine whether some regions have better track records than others? What are the potential fallacies of this approach?

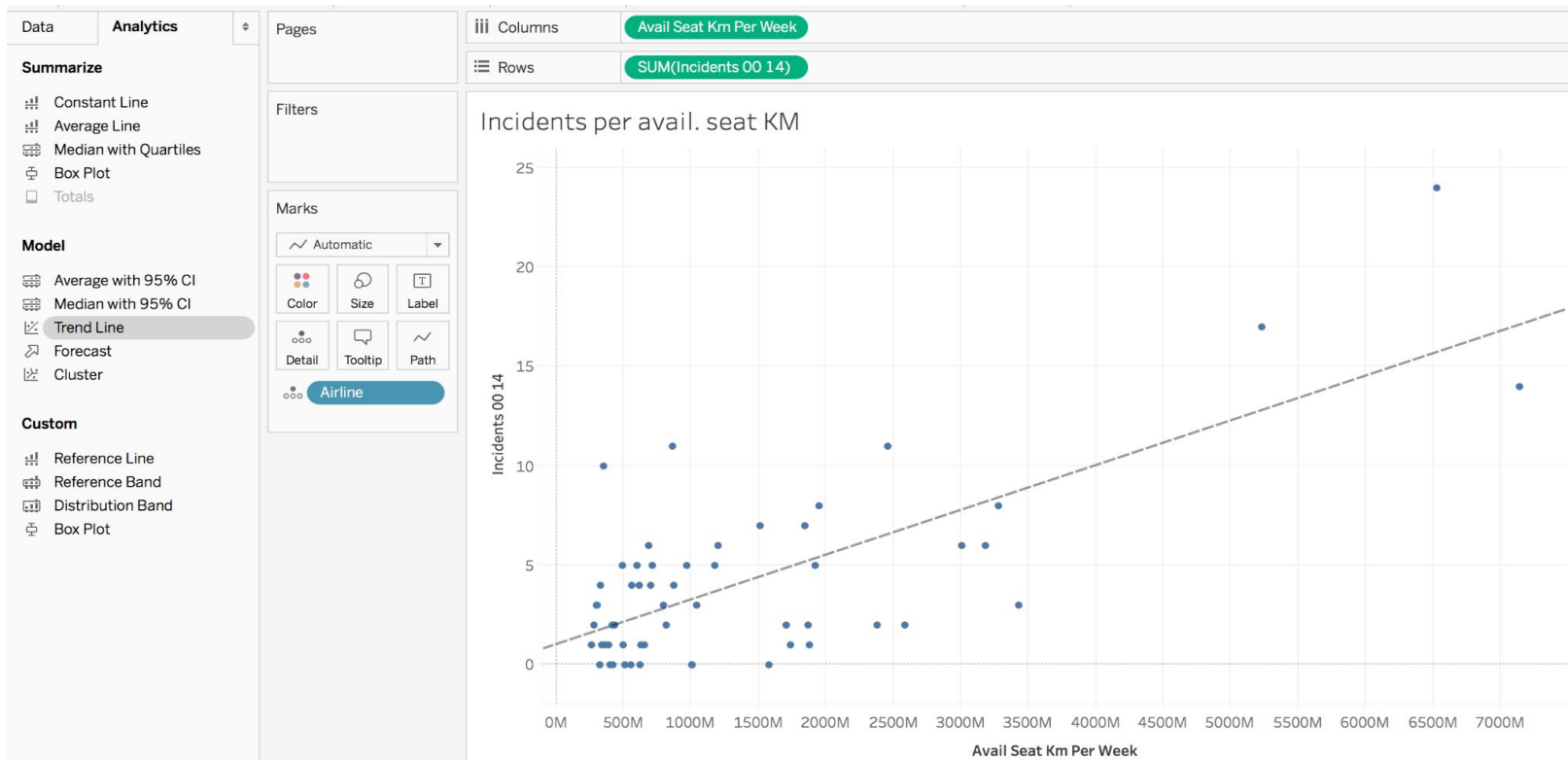
- **Bonus:**
 - If you finish early, try combining your visualizations into a dashboard!

- **Hint:**
 - Don't forget to save to Tableau Public once finished.



Activity: Airline Safety

Ex. A scatter plot of the number of incidents per seat km across all airlines





Let's Review

A close-up, high-angle shot of a computer keyboard. The central focus is a large, white, rectangular key with rounded corners. On this key, there is a dark blue icon of a coffee cup with three wavy lines above it representing steam. Below the icon, the word "Break" is printed in a dark blue, serif font. The key is slightly raised from the keyboard's base. Surrounding this key are other keys, including one with a double quote symbol to the left and one with a dash/underscore symbol to the right. The keyboard has a light-colored, possibly wooden or bamboo, textured surface.

Break



Activity: Popular Baby Names

In this activity, you'll create visualizations using data on popular baby names and surnames, along with demographics and popular name-surname combinations.

Suggested Time:
20 Minutes



Instructions:

Activity: Popular Baby Names

- Create several visualizations of names and their popularity, including the following:
 - The most popular baby names during the period from 2000 through 2017
 - The popularity of surnames and the proportion of Hispanic individuals with this surname
- Create a visualization for the provided popular name combinations.
- Create more specific visualizations:
 - For example, you could study how the popularity of your name, or someone you know, has changed over the years.

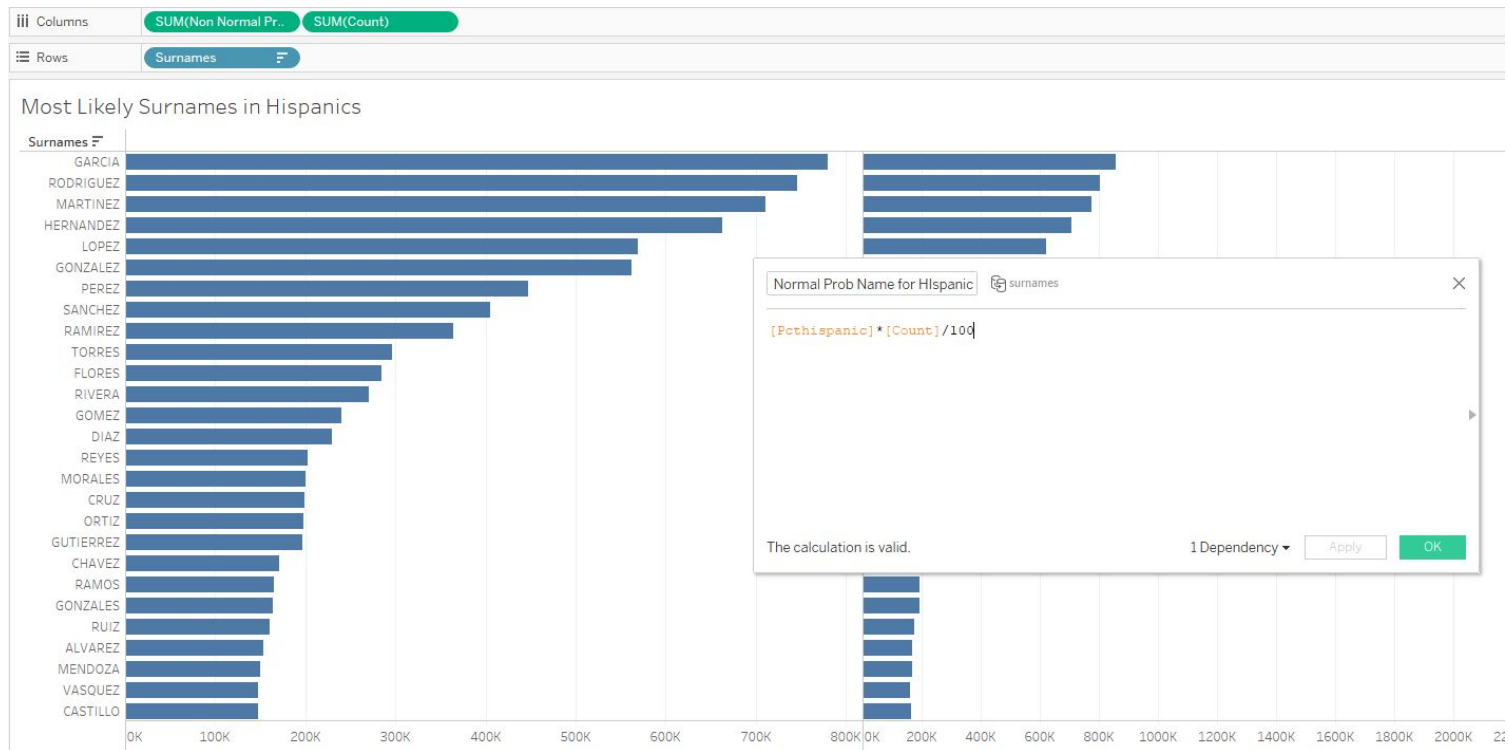
- **Hint:**



- Don't forget to save to Tableau Public once finished.

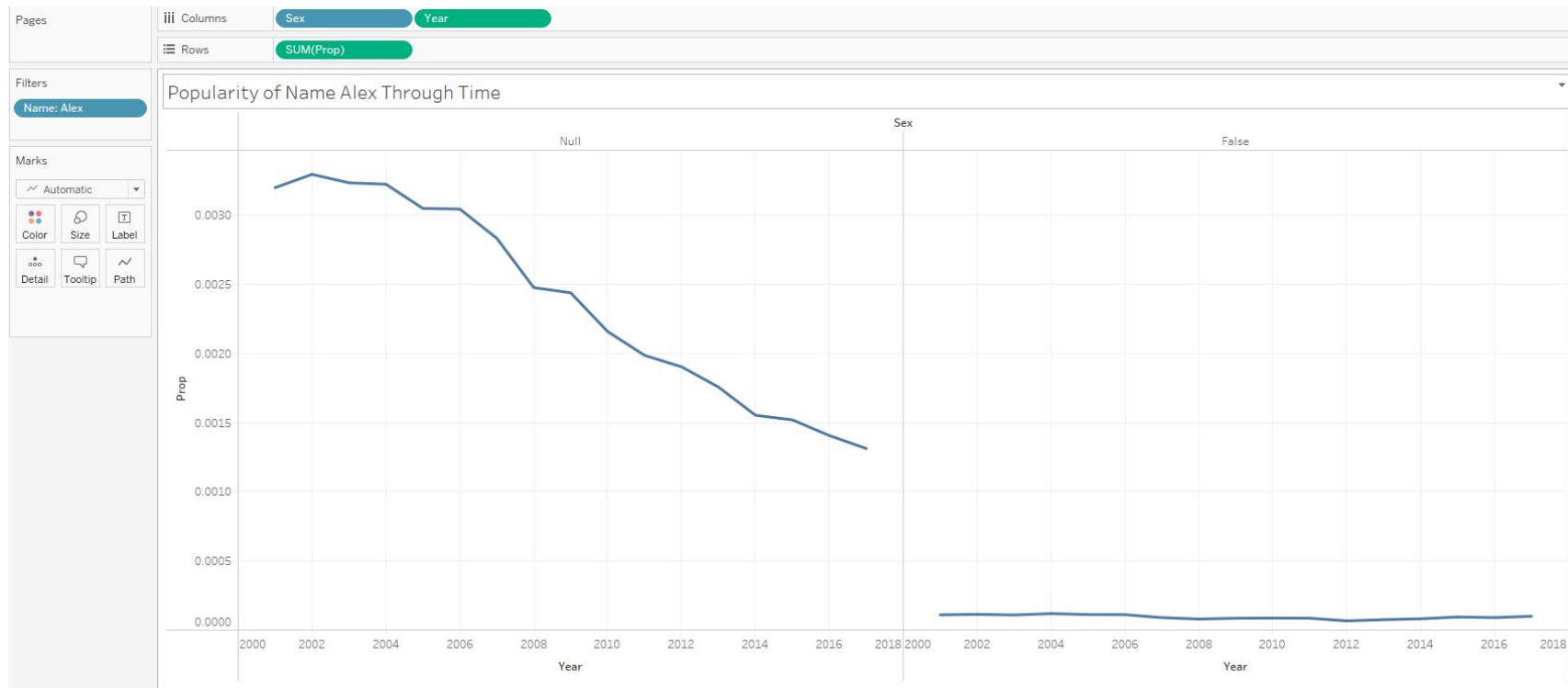
Activity: Popular Baby Names

Ex. The most likely names for a Hispanic subject



Activity: Popular Baby Names

Ex. How name popularity has evolved over the years





Let's Review



Activity: Mini-Project

In this mini-project, you will use your Tableau skills to explore data and create visualizations. After, you will give a brief (3 to 5 minutes) presentation with a summary of your visualizations and findings.

Suggested Time:
55 Minutes



Instructions:

Activity: Mini-Project

In this mini-project, you will use your Tableau skills to explore data and create visualizations.

- You will work in pairs or groups of three.
- It is preferred to use at least two data sources.
- You can use your previous group projects for inspiration; however, you should not simply replicate your old projects in Tableau.
- When working with data, you may need to clean it with a tool like Pandas before bringing it into Tableau.
- You will give a brief (3 to 5 minutes) presentation with a summary of their visualizations and findings.

- **Hint:**



- Don't forget to save to Tableau Public once finished.



Let's Review

*The
End*