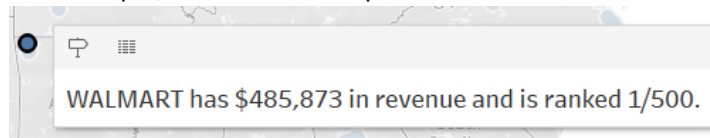


Maps and tooltips with Tableau

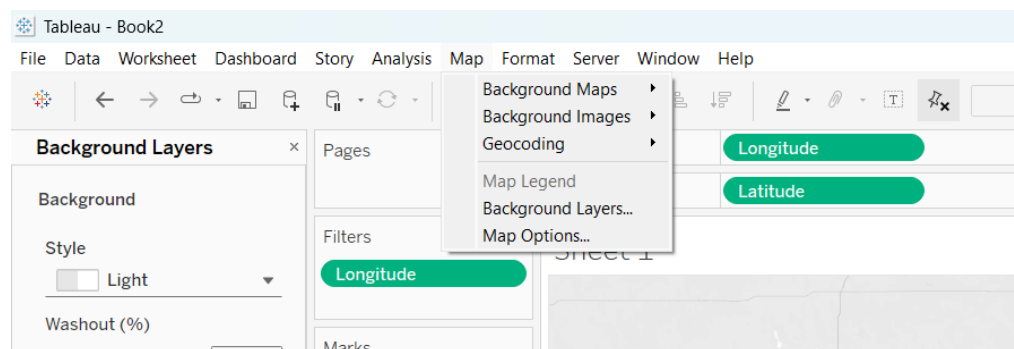
Use the data in *Fortune_500_Corporate_Headquarters.csv*.

Complete the following steps:

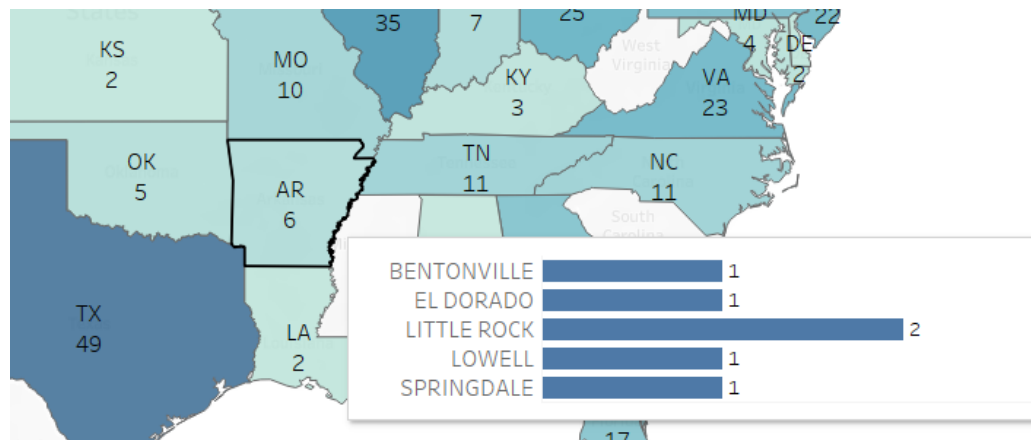
1. Create a **map chart** to show all headquarter locations using the latitude and longitude from the data file (not the generated values).
 - a. Add the company name, revenue, and rank to the tooltip.
 - b. Update the tooltip to show “*company name* has \$## in revenue and is ranked ##/500.” For example, Walmart’s tooltip should show as



- c. Have cities and streets shown on the map (from Map->Background Layers). Can we find the Lawrence Starbucks locations?
- d. Explore more of the Background Map and Background Layers options.



2. Create a **bubble map** to show the number of headquarters per city.
 - a. Observe the results. Is there an error message on the bottom-right corner? How should we fix that?
 - b. If there are any errors remaining, filter out the results or hide the indicator. **Never let such errors show on your plots.**
 - c. Update the tooltip to something more meaningful.
3. Create a **choropleth map** that shows the number of headquarters per state.
 - a. Display the state abbreviation and count on each state.
 - b. De-emphasize the background map so people can more easily focus on the states that are included in the data.
4. Create a bar chart to show number of headquarters per city.
5. Replace the tooltip on the choropleth map with the bar chart from step 4.
 - a. Update the size of the tooltip window to maximum 500 by 700.
 - b. See if there are any styling changes you can apply to the bar chart to make it more readable as a tooltip pop-up window. Try to make it look like this screenshot.



6. Create a **choropleth map** to show the total (or average) revenue per state.
 - a. Style it to make it more interesting and to practice updating tooltips.

References:

https://help.tableau.com/current/pro/desktop/en-us/viz_in_tooltip.htm