Using Tableau for Analyzing Health and Policy Data Class Outline

- 1. Import data file. Note that we can change the names of variables and also variable type (like geocoding for state)
- 2. Create calculated measures, for example, create Current smoker from "smoke everyday" and "smoke some days" and fix the date field: DATE("01/01/" + ([Year]))
- 3. Create a choropleth map
 - a. Drag desired measure into the data area
 - b. Drag state into the columns area
 - c. Change to a map in the Show Me box
 - d. Add a year filter using the calculated year
 - e. Change the colors and the scale and also the scale title
- 4. Create a bar chart of smoking by state by year
 - a. Drag state to columns and current smoker to rows.
 - b. Show how you can reverse this to transpose.
 - c. Add a year filter again.
 - d. Let's adjust our axis so it's constant across years
 - e. We can also have it sort our axis ascending/descending
 - f. In the analytics tab, add some reference lines
 - g. Show how to create a sort on State under Default Properties, and sort.
- 5. Create a line chart.
 - a. Add year to columns and current smoker to rows.
 - b. Show how dragging another measure will create a second axis. And how putting it on the axis will add it to the existing axis.
 - c. Show how to edit colors and change the name of the legend.
 - d. Explain how the sum is being calculated and why that's not especially meaningful for us. Change it to avg, which will be the average across all states.
 - e. Show how to add a state filter and also how state has to be added to the rows to get them to show as individual panes.
- 6. Show how to add everything to a Story
- 7. Show how to add everything to a Dashboard
- 8. Show how to export a packaged workbook
- 9. Show how to export a static image