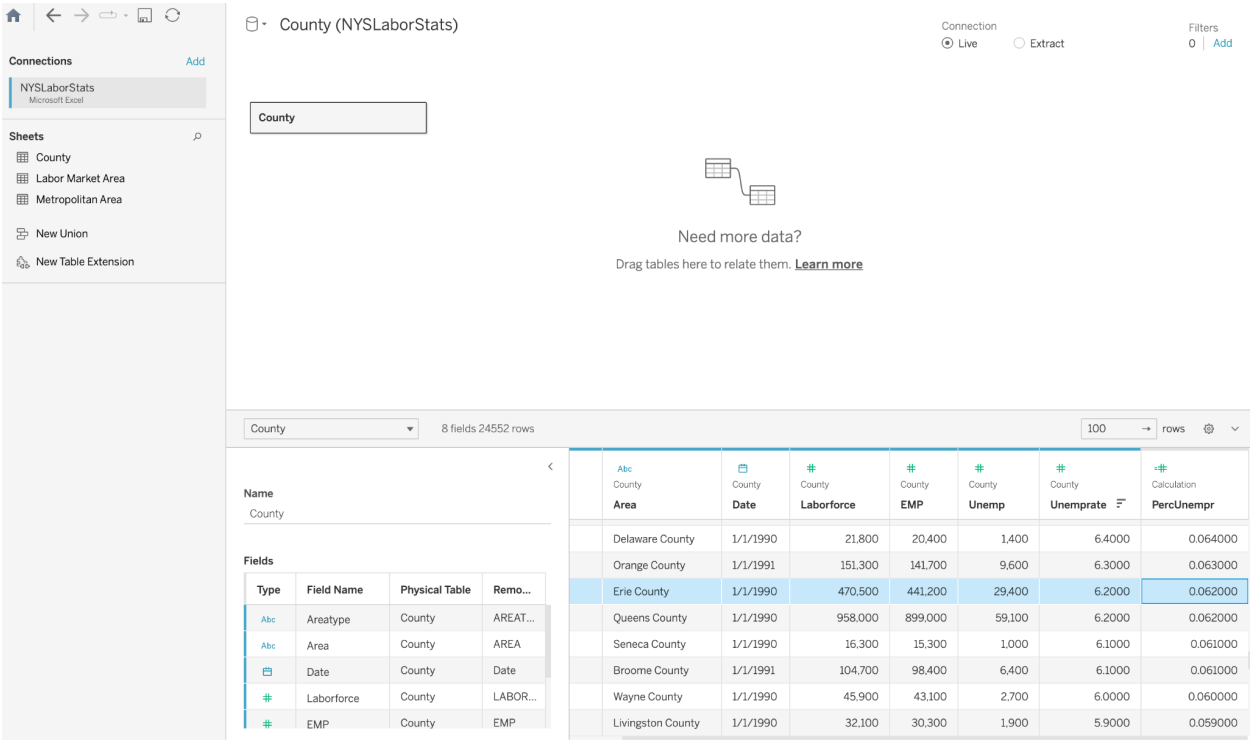
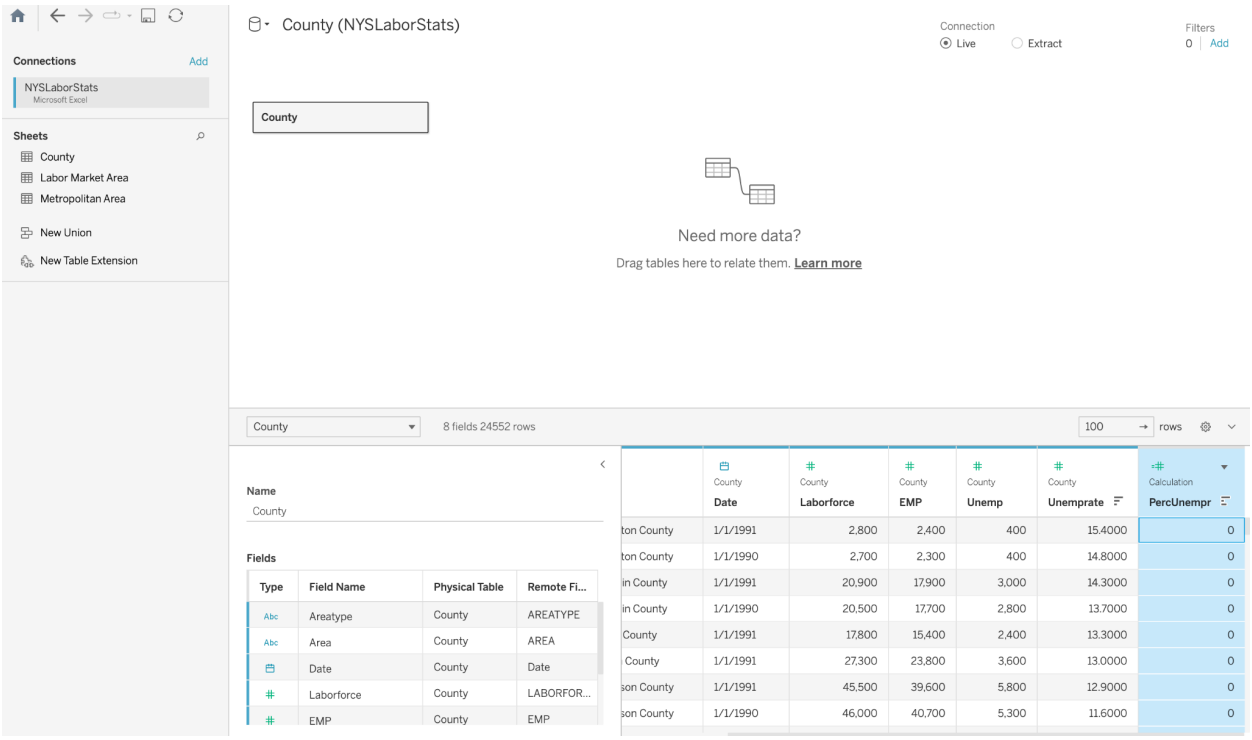
Storytelling thru Data Viz
Homework
VUDA SAI CHANDAN- 50495338

Scroll down the data preview table, and take a screenshot of the table when you find "Erie County" on "1/1/1990". Be sure to include the PercUnempr value in this screenshot.

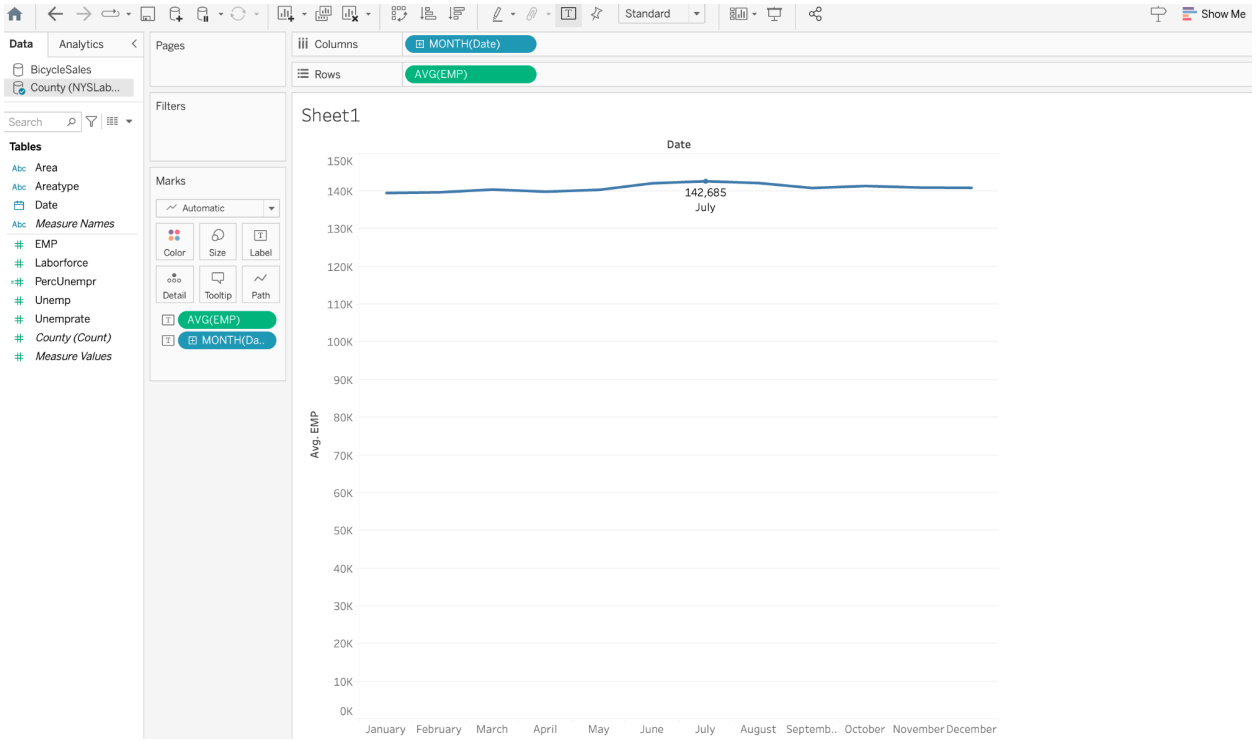


What is the resulting output? Why might this be bad for your data analysis?

- The resulting output will be "0" for the Column values. It will be difficult for our data analysis to calculate the accurate result. So we changed back to the original format.



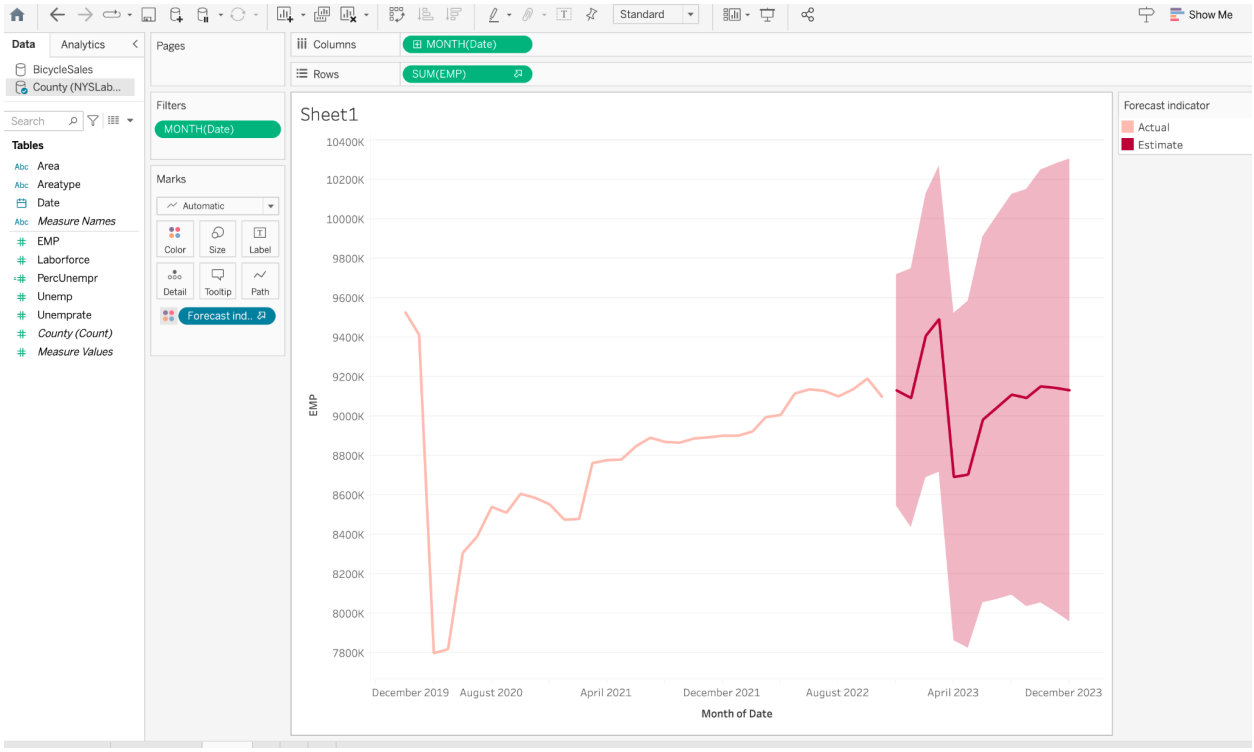
We'll learn how to make these charts more aesthetically pleasing in a bit, but for now, hover over the different points on the chart. On average, which month had the highest employment numbers across the dataset?



You might be thinking "That forecast is too wide of a forecast!" and you would be right! Forecasts are directly driven by past data. If our past data has a high amount of variation, the forecasts for the future will be less predictable. What is happening in our current chart that you feel is contributing to the increase in "uncertainty" in our forecast? Set your filter to happen after that event (September 2020). Does doing that increase the "certainty" of your forecast? Paste a screenshot of your forecast.

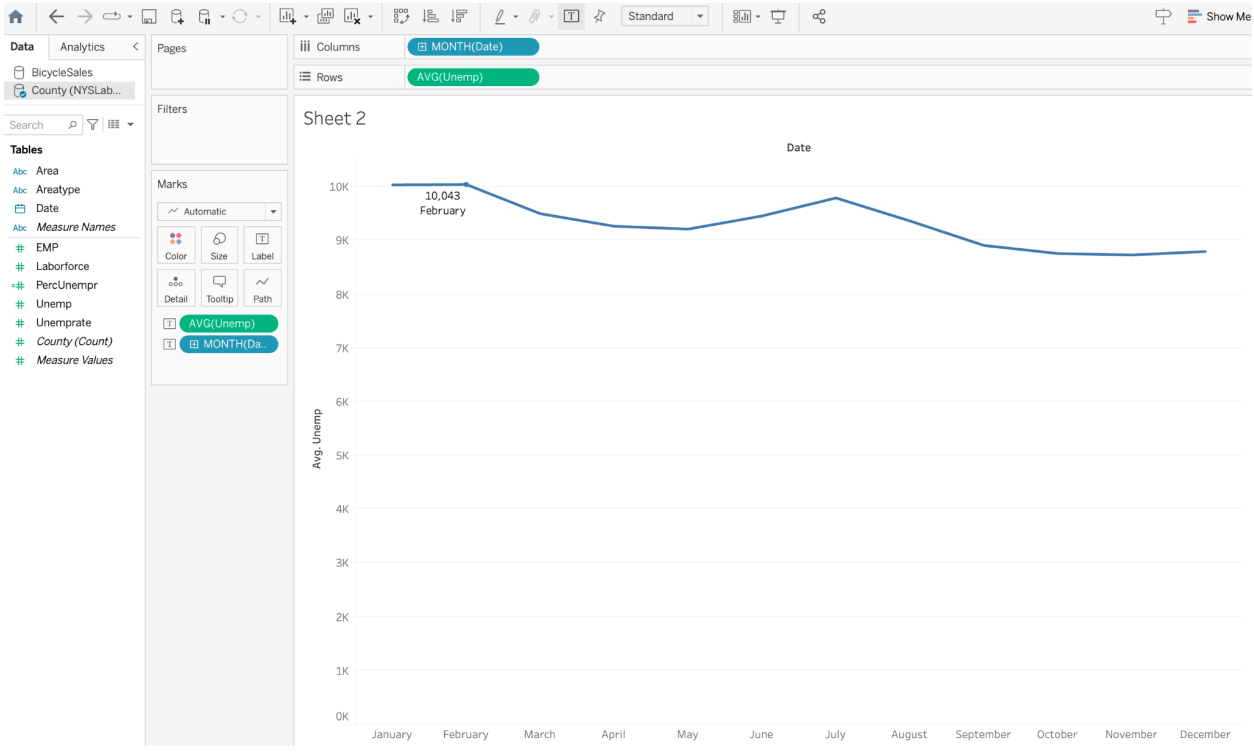
Answer:

In our chart, we can observe that there was a significant increase in uncertainty in the forecast which might be because of a specific event or series of events that impacted past data. From the past data, we can identify potential causes for this uncertainty, such as sudden market fluctuations, economic downturns etc..

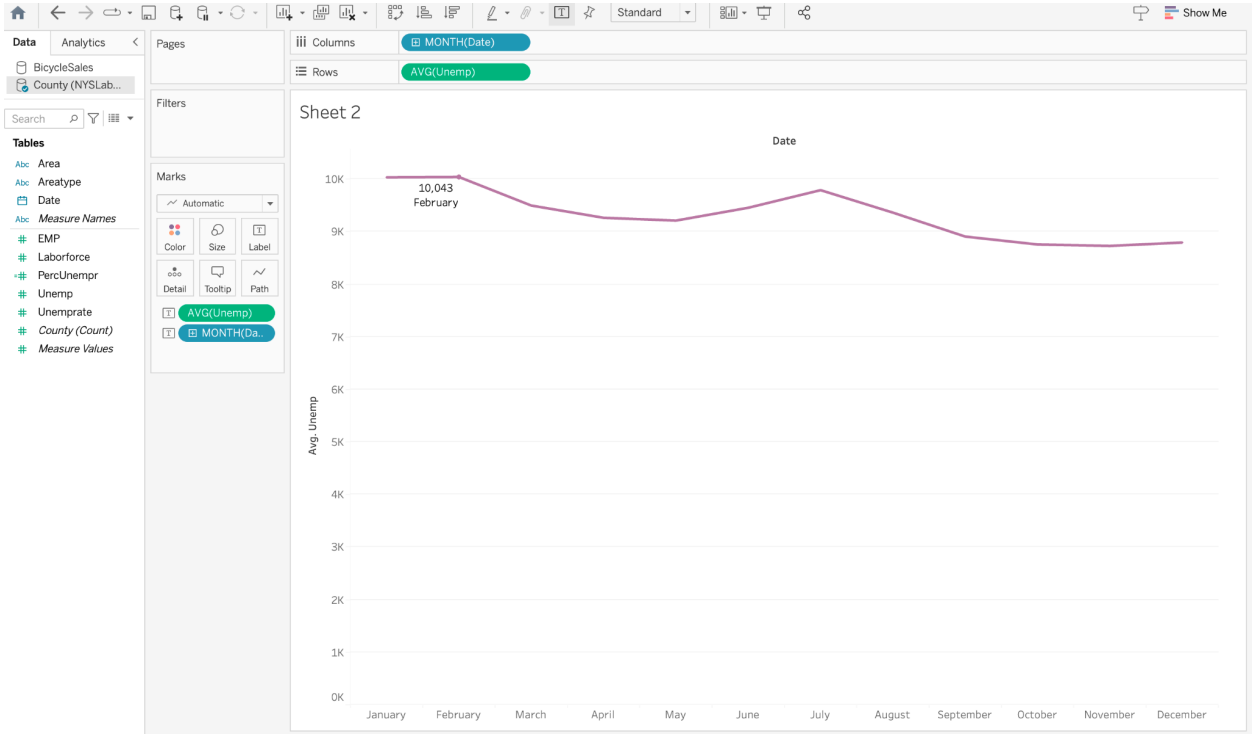


Trying it on your own:

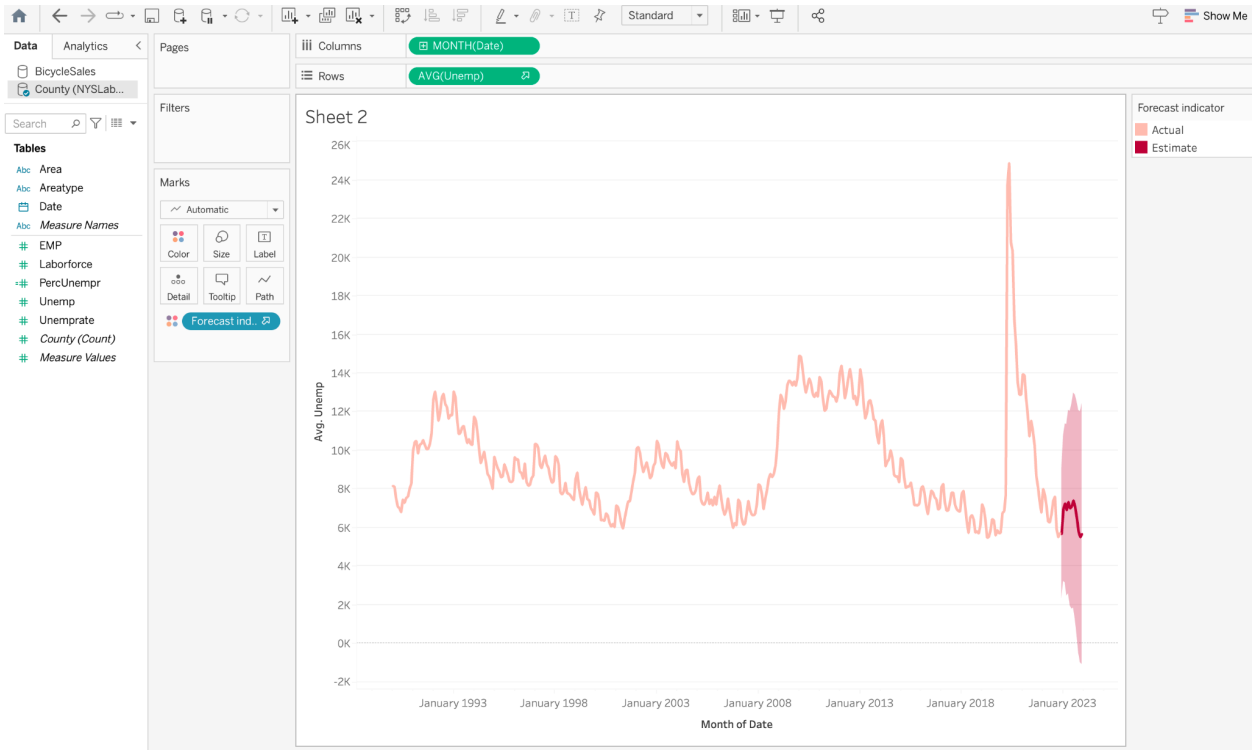
1. Now that you have the basics down, create a second sheet with a line chart using the "Unemp" field.



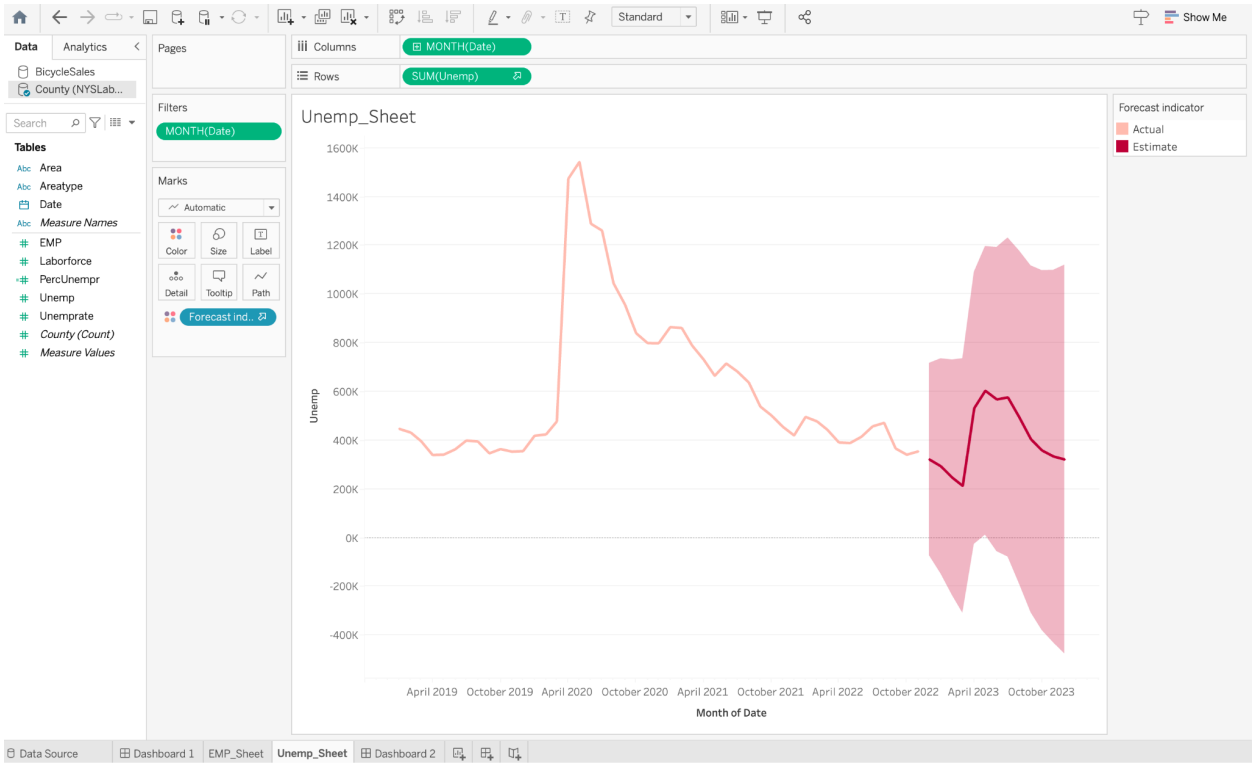
2. Change the color of the line chart to something other than blue. Paste a picture of the new line chart in your report.



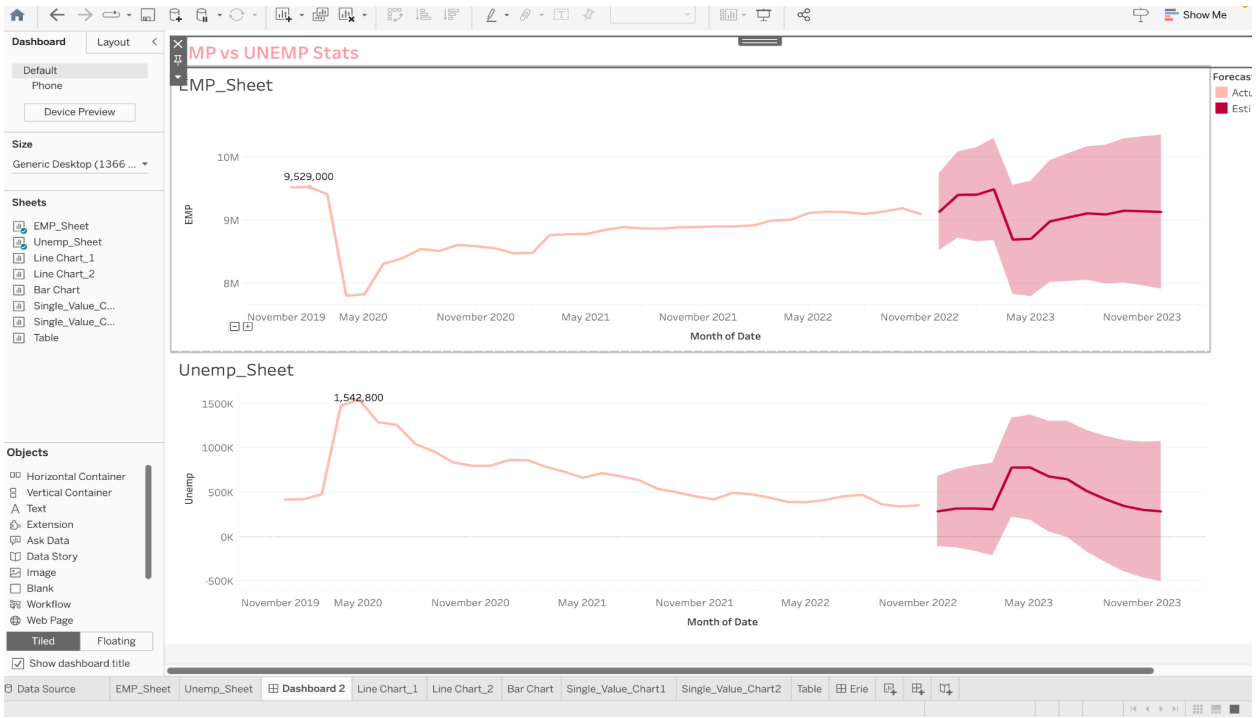
3. Create a forecast, setting the model to custom and the season to additive. Paste a picture of the line chart in your report.



4. Change your line chart to filter for a Relative date showing items since 2019



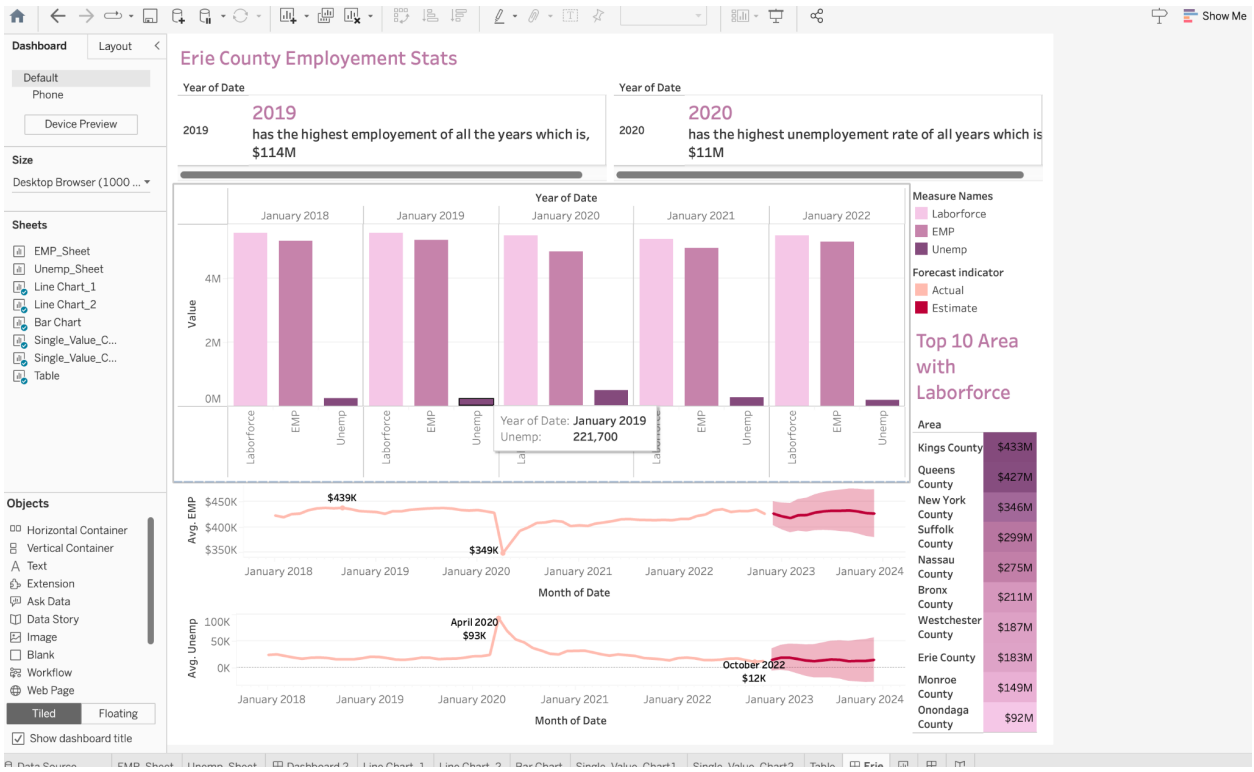
5. Create a Dashboard and add your two sheets to it in a configuration of your choosing. Paste a screenshot of this dashboard in your report. Tableau has a dashbard button on the bottom row of options, which allows you to combine multiple charts into one "dashboard" view.



6. Write 2-4 sentences in your report detailing any insights you can draw from these two line charts.

1. From the 1st line chart, we can see that there was a drastic change which went down during the start of the year 2020 March and eventually, the employment rate increased to normal.
2. The highest employment rate is recorded in the year 2020 February which stands at **9,529,000**
3. From the 2nd line chart, the unemployment rate increased over a certain time period which is from March 2020 to May 2020. Later on, the unemployment rate is at normal.
4. The highest unemployment rate is recorded in the year 2020 May which stands at **1,542,800**

Paste a screenshot of your dashboard in your final report. You can also use the built in "Export to PDF" option in Tableau:



Write 1 page (double-spaced) describing your dashboard (tell your story!).

The dashboard which I created is basically the Employment Stats for an area in Erie County for a certain period of time. The Dashboard includes a total of 6 Visualizations which are 2 Line charts one for Emp rate and the other for UnEmp rate, a bar chart explaining the stats between Emp rate and UnEmp rate as well as the labor force, 2 Single value charts for highest Emp rate and UnEmp rate, and finally the table chart.

From the Dashboard, we can say that, the highest employment rate was recorded in the year **2019 with $114M** and the highest unemployment rate was recorded in the year **2020 with $11M.** The Barcharts illustrate the overall employment as well as unemployment rate over the years with the total labor force.

The two line charts define the total employment and unemployment rate for a certain time period. In the first line chart, The highest employment rate is in September 2018 with $439K and the lowest employment rate is in **April 2020 with $349K**. In the second line chart, the highest unemployment rate is in **April 2020 with 93K** and the least unemployment rate is in **October 2020 with $12K.**

From the Bar chart, the highest labor force was recorded in the year **2019** with **5,430,400,** and the highest employment rate is in the year **2019** with **5,208,800**, highest unemployment rate is in the year **2020** with **487,500**.

The table from the dashboard describes the top 10 Area with a labor force where the top 1 area is **Kings County** with a **$433M** labor force. The **Erie County** area has a **$183M** labor force.