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BIDD 330A

Module 04

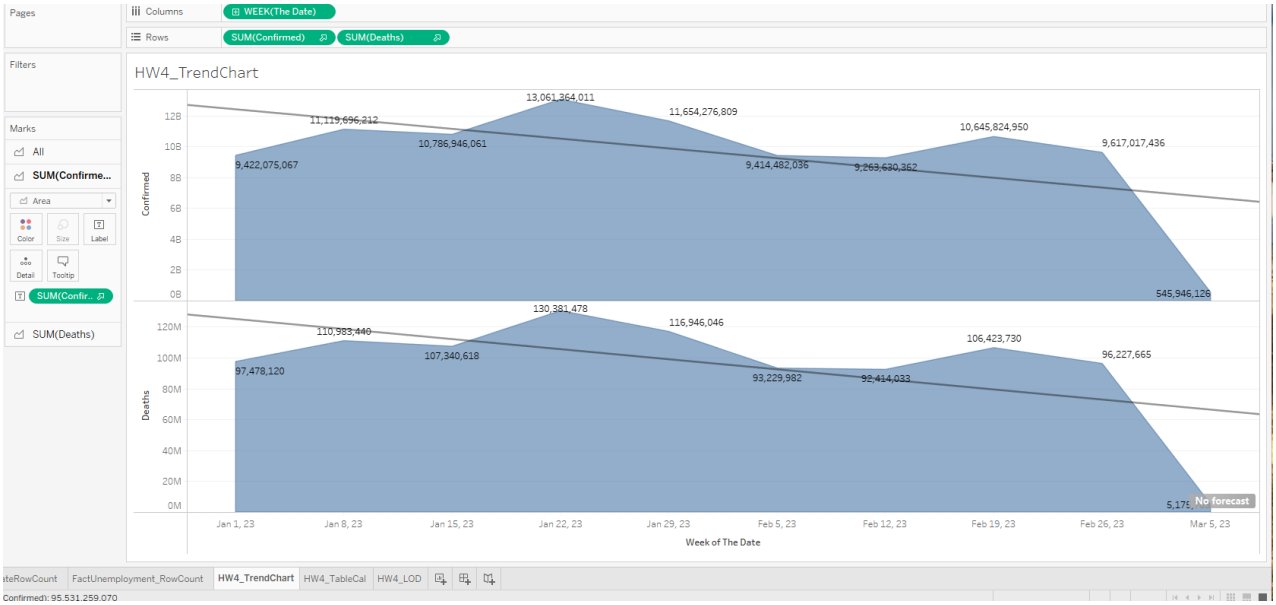
GitHub BIDD 330_Spring2024 Link: https://github.com/Phillips094/BIDD330_Spring2024

Intermediate Tableau

Introduction:

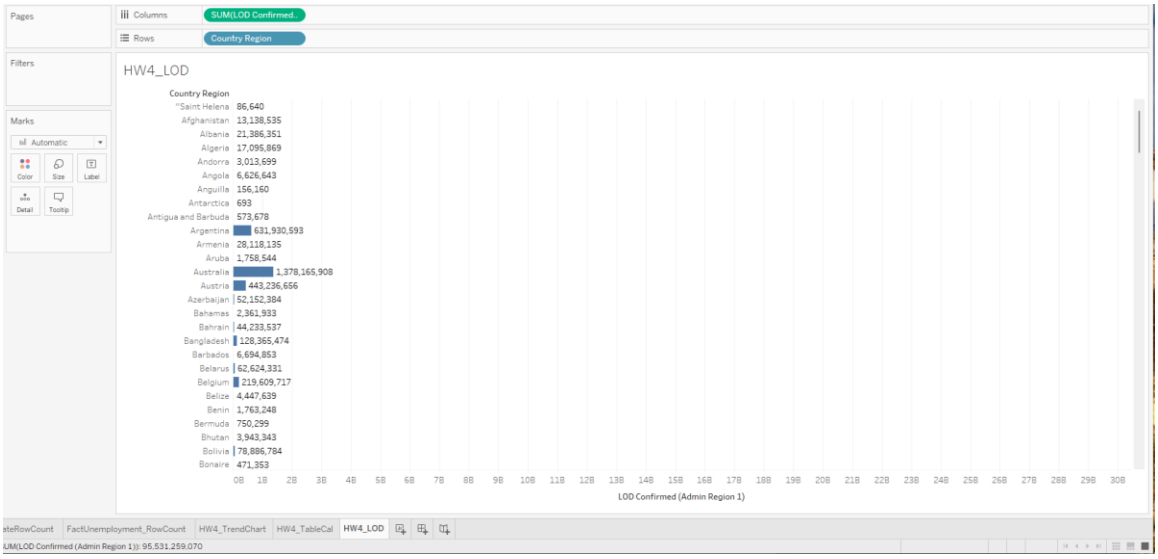
For module 04, we focus on developing an Intermediate Tableau report using our previous submitted Tableau assignment. We further develop our previous report and enhance our visuals by expanding our measures with calculated measures and LOD calculated measures. The assignment is more about getting comfortable with Tableau and using it at a professional level. We continue connecting to our UW server using our credentials which were provided at the beginning of the course. We utilize the same Database, Black_Unemployment, in SQL Server and continue with our previous data model from assignment 2. This data model focuses Covid cases and has the ability to dissect our data with 3 dimensions, DimState, DimDate and DimCountry. We developed 3 reports in this Tableau assignment which are HW4_TrendChart, HW4_TableCal and HW4_LOD.

Starting off our module 04 project, we make sure that our data model is correct (which it should from our module 02 assignment). Once we have this established, we focus on building our 3 reports. For our first report, HW4_TrendChart, we include a trend chart that illustrates a table calculation for the total summed confirmed and summed deaths from COVID. We use a shaded area chart to display over time the confirmed cases and deaths. Our first report is below:



For our second report, HW4_TableCal, we continue our report development by creating a new report that encompasses additional table calculations: RunningAVgConfirmed and ConfirmedPlusDeaths. We utilize the Clustered column charts where we display our new table calculations by our field 'The Date'. These calculations were interesting to show because our running averages seem to level out to a specific number towards the end of our clustered column charts. For our second calculated table, we create a measure that calculates the confirmed cases plus the number of deaths from covid to illustrate the total impact of covid throughout time. We see some major spikes throughout our clustered column charts. Below we include a screenshot of our data displayed with these measures and selected visualizations. Notice that we also include in our Filters pane our RunningAVG and Confirmed Plus Deaths table calculations.

In our final report, HW4_LOD, we create a visualization where we develop a level of detail (LOD) table calculation named LOD Confirmed (Admin Region 1). We develop our calculation by selecting one of our measures and our category fields from our Fact Covid table, right-click on the category field (in this case we selected Admin Region 1), select 'Create' and then select LOD. After finishing developing our LOD table calculation, we continue displaying this calculation by using a bar chart visualization to display our new measure. We display a LOD for each of the countries in our fact table. Below is a screenshot of our final report HW4_LOD.



Summary:

In summary, we further investigate our Covid dataset by utilizing Tableau for analyzing our data. We create new table calculations from our covid dataset and use different visualizations to display our data. Tableau is a very intense software for Business Intelligence. Although I was able to get more comfortable with Tableau, I still feel as though there is a lot to learn. I think in comparison to Power BI, Tableau has a steeper learning curve. I feel as though Power BI for myself is still more of my flavor and go to for Business Intelligence. I think having a foundation in Tableau is still essential. I think Tableau can display our data in a different way than Power BI.

Our final dashboard looks like this!