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BIDD 330A

Module 07

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

Intermediate Power BI and Jupyter Notebook

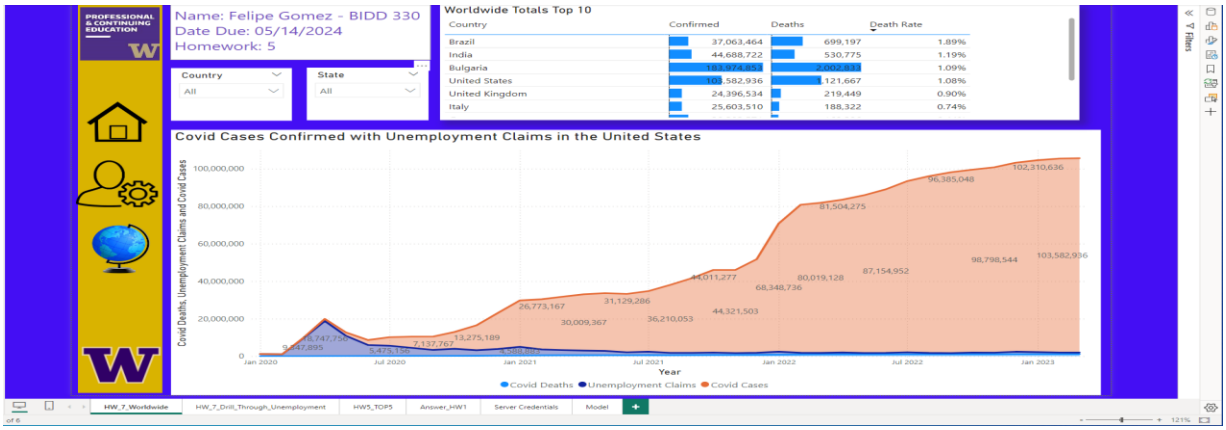
Introduction:

For module 07, we focus on developing an Advanced Power BI report that builds from our previous HW5 and HW1 Power BI assignments. We also investigate reviewing our SQL quizzes and reviewing the presentation from our guest speakers from TekSystems.

Power BI:

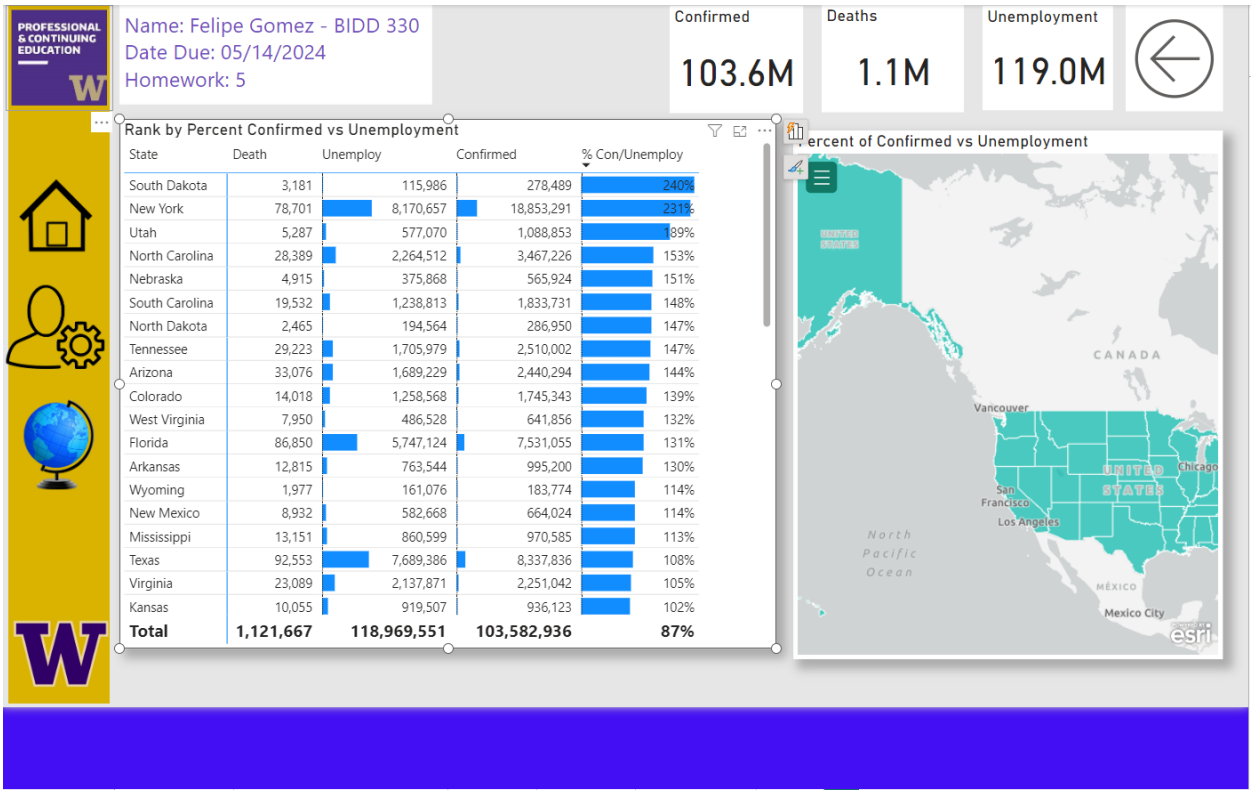
In our advanced Power BI report. We focus on including features such as drillthroughs, drill downs and additional bookmarks to our report. We create two new report pages, named HW_7_Worldwide and HW_7_Drill_Through_Unemployment. The first report is for displaying the Convid confirmed cases and Deaths in the United States as well as showing the Top 10 world wide death rates. We create two different slicers, one by Country and the other by State. We add a line chart for displaying the covid cases confirmed with unemployment claims in the United States over time as well as the covid deaths over time. We have the ability to drill up or down by Date, such that we can view the data by month or year. Our second visualization is a matrix that dispalys our confirmed covid cases, deaths from covid and the Death Rate %. In this case we are showing the Top 10 countries by the Confirmed cases around the world. We also include the ability to drill through our Worldwide Totals Top 10 matrix visualization to go deeper into the details of these country's data. We include our 3 bookmarks that take us to one of the following bookmarks: Our Home page report, our Admin report and our Drill Through bookmark. The last Drill Through bookmark is used to navigate to our Drillthrough page without having to drillthrough a specific country.

Below is a screenshot of our first report:



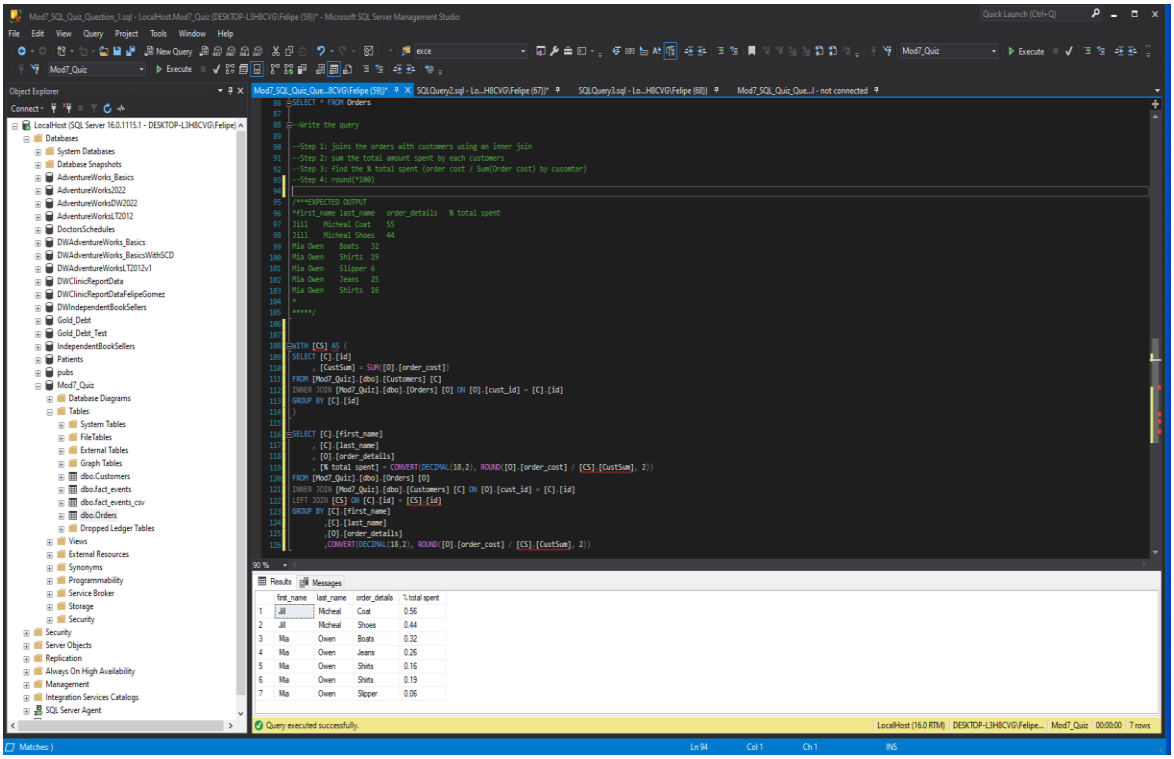
Our second report, which is our main drill through page and bookmark Drill Through page that has information for a specific country. We have multiple cards that display our total Confirmed covid cases, Deaths and Unemployment. We also have a matrix and include an ArcGIS map visualization. With our matrix visualization, we have State, Death, Unemployment, Confirmed and % Confirmed/Unemployed. Our ArcGIS map visualization includes similar information for our data points. We also have our bookmarks on the side that take us to our Home page, our Admin page and our World Wide report.

Below is a screenshot of our drill through page:

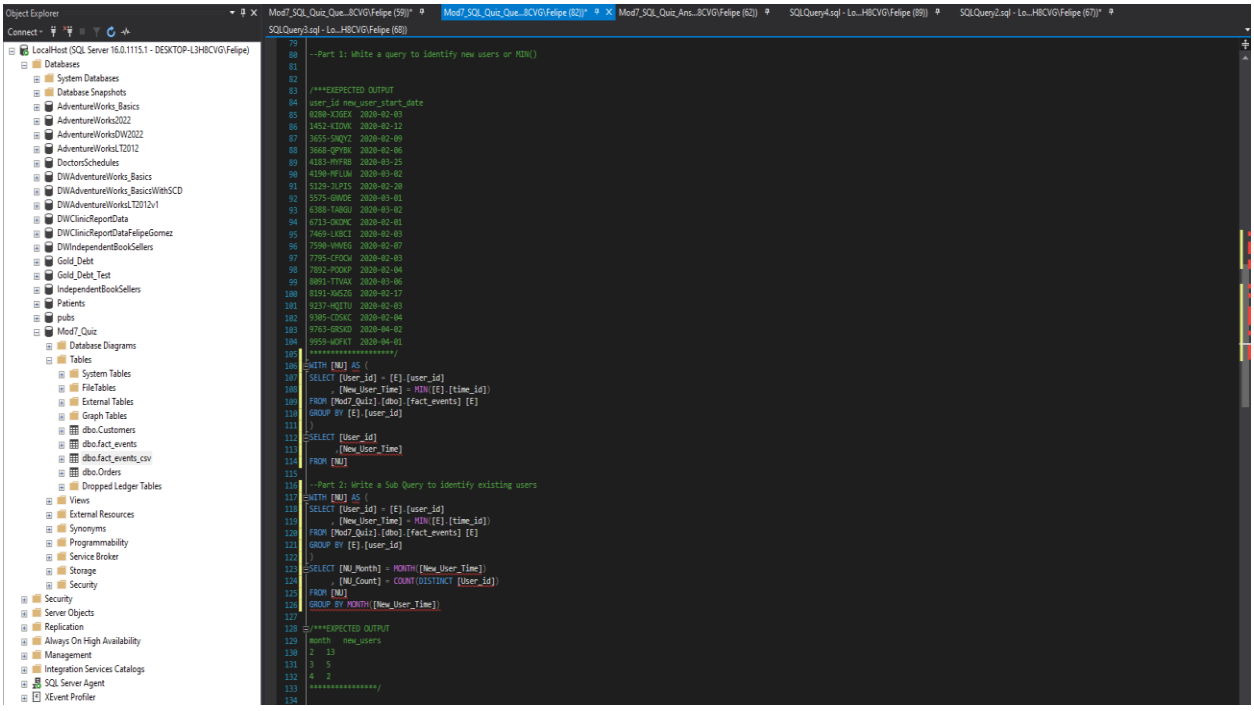


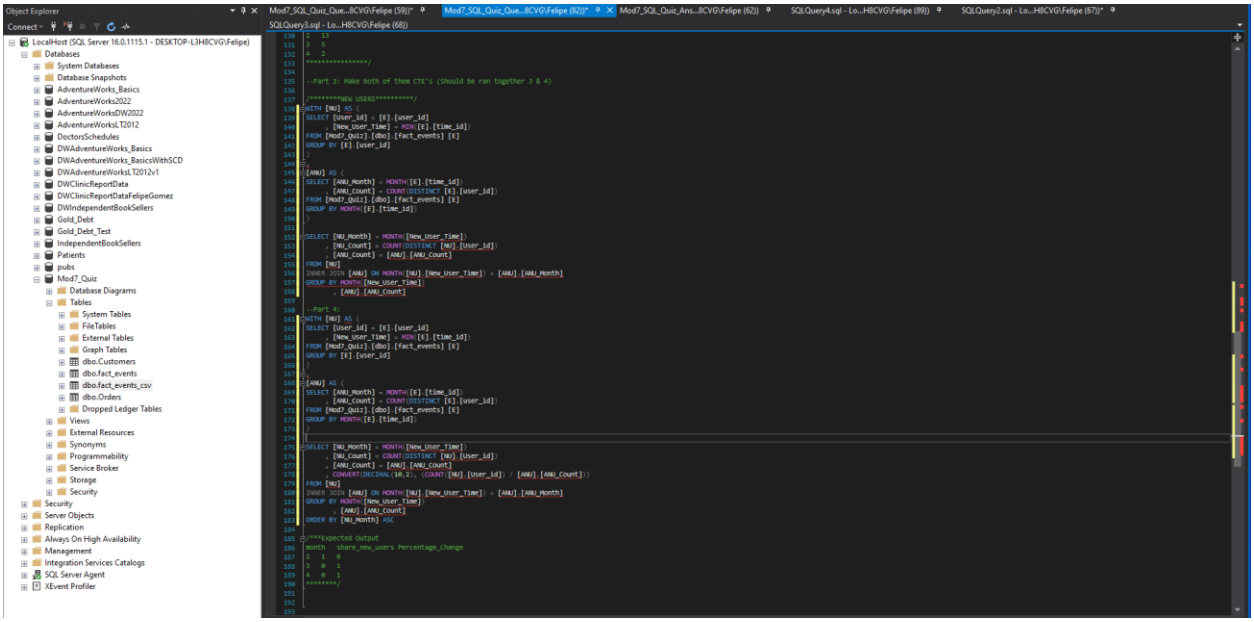
When it comes to my Advanced Power BI report, I will remember to apply cool and interesting features like the Drill Through and Bookmark features for developing powerful Power BI applications. I value the difficulty from building these types of Apps, especially when it involves difficult DAX equations and understanding how to work with Data Models in Power BI.

SQL Quiz: Question 1 Solution:



SQL Quiz: Question 2 Solution:





Overall, these SQL questions were tricky, I liked how they built on top of one another. I also think that they were good practice and review, especially when it comes to tricky SQL questions. I think they did help me in practicing CTEs and applying my SQL skills with interview questions.

TekSystems:

Overall, I enjoyed hearing from tech recruiters who provided valuable feedback on the current market and process for hiring and contracting in Tech. I will use their advice and knowledge for my next career step. I am glad I was able to hear the perspectives from two Tech recruiters on what they look for in candidates.

Summary:

In summary, these 3 topics discussed in this Lessons Learned really provided valuable knowledge in understanding and implementing concepts in Power BI, SQL and in real life career scenarios. I thought the last few lectures provided much needed information to feel confident in the next steps of my career. I know I will apply all I have learned these past few lectures in my personal career. I found the SQL quiz interesting because it forced me to actually think about how to solve SQL questions on the spot and in a quickly time manner. As for the TekSystems guest speakers, I will make sure to keep in touch after the course is over. For the Power BI report, I will continue to improve my skills on DAX and applying advanced features in Power BI for my daily work.