**COVID-19 And its Impact Around the World**

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**INTRODUCTION**

Welcome to the Covid-19 Worldwide impact analysis case study! In this case study, I will performing real-world tasks of a junior data analyst to get a better understanding of the data. I picked this topic as its affected each and every one of us in one way or another whether you’ve had covid yourself or had a family member or friend go through the symptoms. In order to effectively answer the questions that I considered important, I will be following these key steps of the data analysis process: **ask**, **prepare**, **process**, **analyze**, **share**, and **act**.

**SCENARIO**

I am a junior data analyst working for the healthcare data analyst department at Baptist Hospital of South Florida. The Director of the Imaging department wants to understand the forecasted population rate of the infected people in Florida, the United States and also around the world. Therefore, analyzing the most infected population by comparison, how many people are vaccinated, and how many are not vaccinated. From these insights, the team and I will help the hospital improve ways to get more people vaccinated and to try and decline the projected numbers. However, the Director must approve of the recommendations, so they must be backed with captivating data visualizations and data insights.

**Ask Phase**

The stakeholder who is also the Director has an objective to understand how much worse the infected covid-19 population rate was going to be for the entire state of Florida by drawing comparisons to the United States, and the rest of the world. The task was to identify how many people were not vaccinated in the United States and find ways to get the more people vaccinated to stop the infected rate from increasing. We will go through the data of those who are vaccinated vs those who aren’t to compare and assess the differences between them in different metrics. The audience as stated before is everyone as we all have come in contact with covid. By making a decision that’s constructed around the data this is the best way to come to a logical conclusion. By solving this problem we could use the insights to see why some people are still not vaccinated.

**Prepare Phase**

The information we are analyzing is real-world data that can be found on the website <https://ourworldindata.org/covid-deaths> for the purpose of studying our case and answering the questions that needs to be uncovered. For this project, the downloaded CSV file was from the earliest date of February 15, 2020 to February 2022 and stored the data in a folder of the capstone project folder. The data was imported from the csv file into a Microsoft SQL Server to be sorted and filtered to better understand the different types of information gathered. There is no bias as the data is gathered from a reputable .org website with only factual information of the matter. Therefore, the data is reliable, original, comprehensive, current, and cited. The data does not have any private information that reveals anything about anybody. This is all publicly collected information. So far there are no issues with the data as it is updated each and every day.

**Process Phase**

For this dataset, excel was used to get a quick glimpse data but because the dataset is so large. Microsoft SQL Server was utilized to sort and filter the data accordingly. By cleaning the data through filtering and sorting it makes the information more usable for analysis. Afterwards, Tableau was used to import the data from the SQL server to better visualize the data analyzed to create a dashboard that catches the eye in less than five seconds. As previously stated the data does not have any private information that reveals anything about anybody as this is all publicly collected information.