**PMG - Progress Summary**

To arrive at my findings, I used many data visualizations for each survey question regarding COVID-19 and dining in restaurants as well as demographics.

I wanted to visualize the number of observations in the survey to demonstrate different levels of comfortability and frequencies when it comes to dining or ordering from restaurants SINCE COVID-19. That way I can get a better understanding of how customers have reacted, felt and how often they attended dining at restaurants since COVID-19.

I also visualized number of selections from list of choices that people chose from regarding what restaurants should do to help customers be more comfortable when dining indoors/outdoors onsite at a restaurant. This would help restaurants adapt to what customers recommend for their optimal experience during the pandemic.

Furthermore, I visualized number of observations displaying different levels of frequencies when it comes to dining onsite or ordering from a restaurant. This was to understand how restaurants have been affected with the number of customers they had PRIOR and SINCE COVID-19 started.

Another area of interest is to visualize number of observations showing different levels of satisfaction customers rated based on their experience with restaurants SINCE COVID-19.

Also investigated visualizing importance of a list of different aspects of a restaurant that customers chose from to get a better understanding of what they value more in their experience especially SINCE COVID-19.

In addition, investigated average spending PER PERSON when dining at a restaurant to see how much customers usually/are willing spend so that restaurants can adapt their budgets/costs and price at a reasonable rate.

Another visualization of the number of observations of number of selections from customers from a list of choices on how restaurants should provide information regarding health and safety protocols.

Also investigated number of selections from a list of choices into what customers intended actions are in returning to normal as COVID-19 regulations and protocols are lifted. This information could help restaurants adapt their plan with a smooth transition to a normal experience according to customers. In addition, investigated what people prefer from two choices and visualized number of selections based on their preferences.

Another area of interest is to see which websites are accessed more frequently by customers by visualizing number of selections for each website. This way restaurants can target their advertisements through these most visited websites and social media to attract/target a large audience or get more exposure to their brand.

Furthermore, visualized number of observations of different categories for each demographic such as relationship status, level of household income, any kids, level of education, gender status, area classification, and province reside/live in. Also visualized age in the entire survey data. This was to see what kinds of customers or people participated in the survey.

Lastly, as further analysis, visualized mean averaged amount of money spent PER PERSON dining at a restaurant based on certain demographics such as province residence, household income, and area classification. The reason for this was for restaurants to open their services to places where mean average money spent is higher for more revenue. Although the data doesn’t consider into any costs such as rent and grocery in those provinces or locations.

**To summarize, I just analyzed and visualized all the results of every survey question in the research study here regarding restaurants in relation to COVID-19 pandemic and demographics of the survey data. I used many bar plots and some cat plots / scatter plots to visualize the data for each of the questions. I concluded my findings based on those plots and results and interpreted the statistics in relation to the main research question. Only limitation is that the survey does not consider costs of the restaurants on average.**