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Data Analytics With Cognos
Phase-3
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Visualization Strategies:

Geographic Insights:

One of the primary objectives is to gain geographic insights from the mental health survey data. Visualization techniques will be employed to illustrate the distribution of survey respondents across different countries and states. By using color-coded maps or charts, we can depict the concentration of survey participants in various regions. This analysis will help identify regions with high and low levels of participation in mental health surveys, shedding light on geographic trends in survey engagement.

Age-Based Analysis:

Another key aspect of the analysis pertains to the age distribution of survey participants. Through the use of histograms or bar charts, the survey data will be employed to reveal the distribution of respondents' ages. This will provide an understanding of the most common age groups among survey participants. Moreover, age ranges can be grouped to analyze specific demographics. By visualizing the age distribution, we can gain insights into the demographic profile of survey respondents.

Self-Employment Insights:

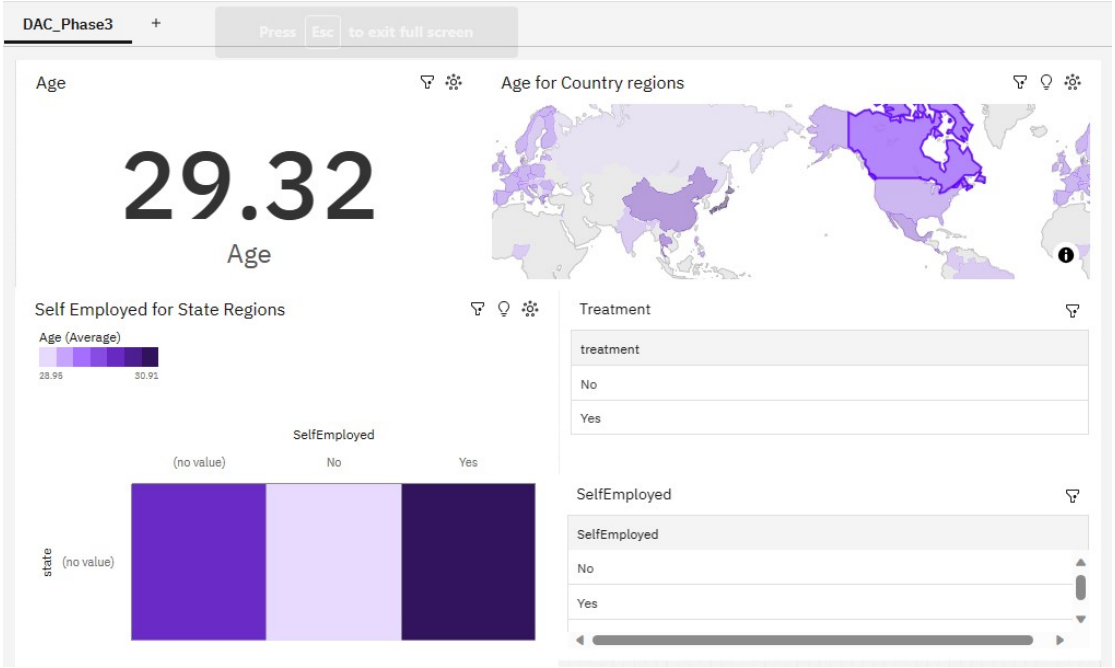
The survey data will be used to investigate the relationship between self-employment status and survey participation. Visualization tools such as bar charts or pie charts will be utilized to compare the proportion of self-employed and non-self-employed respondents. This analysis will provide insights into whether self-employment status has an influence on participation in mental health surveys. It will help in understanding whether there are variations in survey engagement based on employment status.

Treatment Analysis:

The survey data will be employed to explore responses related to mental health treatment seeking. A visualization method, such as a pie chart or stacked bar chart, will be utilized to represent the proportion of participants who responded "Yes" or "No" to the question about seeking mental health treatment. This analysis will offer insights into the prevalence of treatment-seeking behavior among survey respondents. By visualizing the responses, we can gain an understanding of the proportion of individuals who are actively seeking treatment for mental health issues.

In summary, the visualization of the mental health survey data based on geographic location, age, self-employment status, and treatment-seeking behavior aims to provide valuable insights into the survey participants' demographics and behaviors. These visualizations will assist in identifying patterns, trends, and variations within the data, contributing to informed decision-making in the context of mental health awareness campaigns and interventions.

Dashboard:



The given dataset is pre-processed and cleaned using python libraries like numpy, pandas using Jupyter Notebook and then uploaded to IBM Cognos for Dashboard Visualization

About the Dashboard:

Age: Provides the Average Age for Respective Countries/States on clicked
Age for Country Regions: Provides the average age of every country
Self Employed for State Regions: Provides insights in the form of bar graph based on Age
Treatment: Whether Treatment administered or not
SelfEmployed: Whether self employed or not

Link:
https://us1.ca.analytics.ibm.com/bi/?perspective=dashboard&pathRef=.my_folders%2FDAC_Phase3&action=view&mode=dashboard&subView=model0000018b3e2ab0fb_00000000