Power BI Visualization

Dashboard 1:

Link: https://www.kaggle.com/datasets/ronaldonyango/global-suicide-rates-1990-to-2022
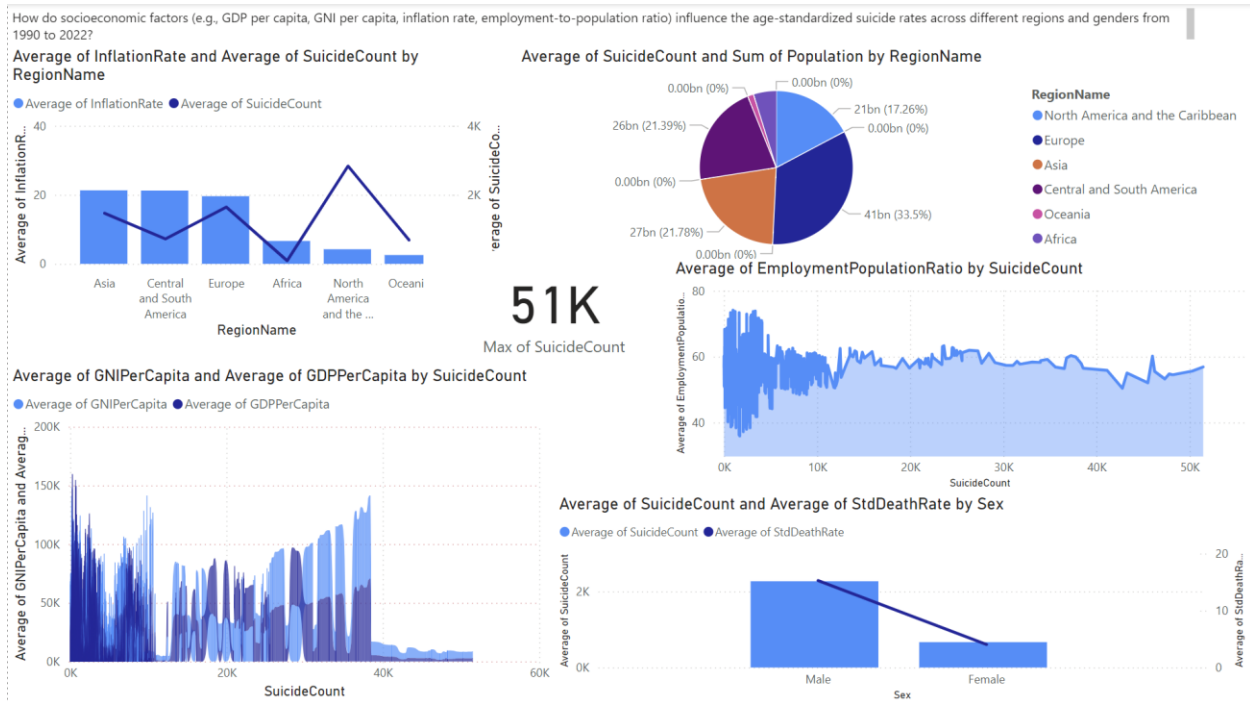
Purpose: To explore the relationship between socioeconomic factors and age-standardized suicide rates across different regions, genders, and time periods.

Content:

1. **Inflation Rate vs. Suicide Count:** Highlights the average inflation rate and its relationship with suicide counts by region.

2. **Suicide Count and Population Distribution:** Displays population size and suicide count distribution by region.

3. **Employment-to-Population Ratio Analysis:** This shows how employment ratios relate to suicide counts.

4. **GDP and GNI Per Capita vs. Suicide Count:** Examines economic metrics (GDP/GNI) and their link to suicide occurrences.

5. **Gender Differences in Suicide Rates:** Compares suicide counts and standardized death rates by gender.

Dashboard 2:

Link: https://healthdata.gov/dataset/Beneficiaries-receiving-a-physical-hlth-serv-among/s3n2-fbxq/about_data
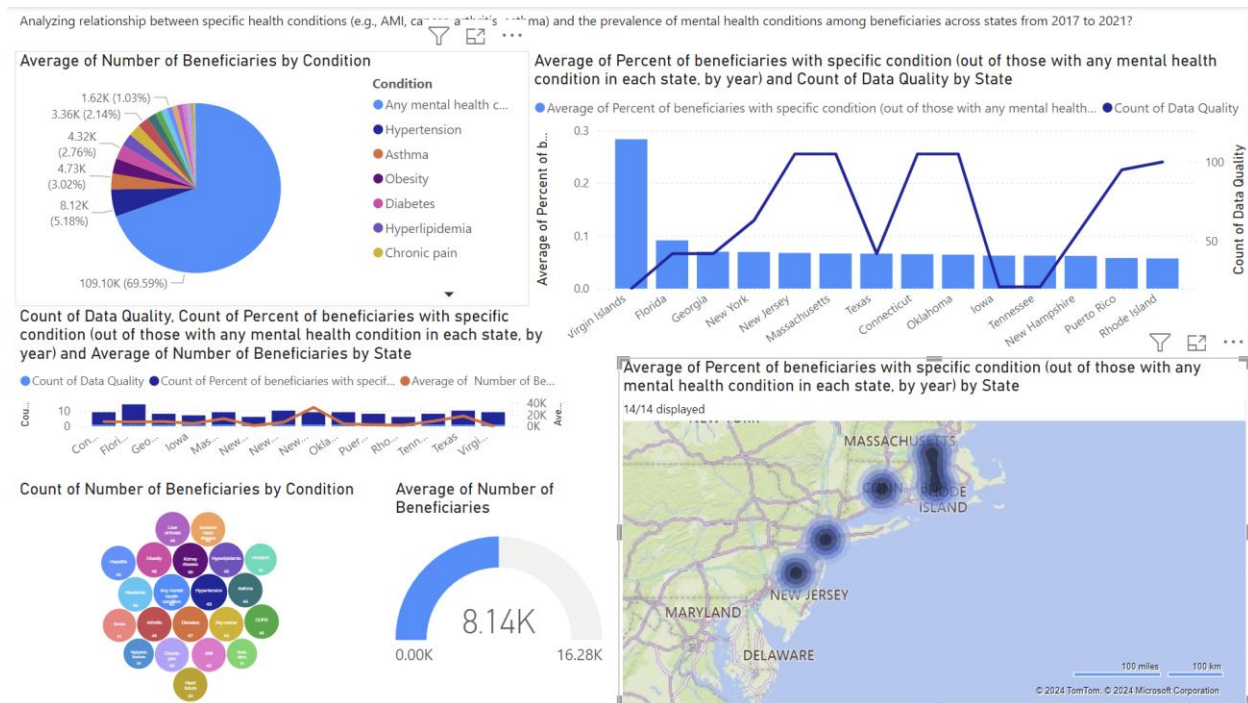

Purpose: To investigate the prevalence and distribution of beneficiaries with specific health conditions, including mental health conditions, across states.

Content:

1. **Condition Prevalence Breakdown:** Pie chart showing the proportion of beneficiaries with various health conditions.

2. **Percent of Beneficiaries with Specific Conditions:** Line chart linking condition prevalence to mental health conditions and data quality.

3. **Geographical Analysis:** Map and bar graphs show state-level data on condition prevalence and beneficiaries' distribution.

4. **Beneficiaries by Condition:** Bubble chart highlighting counts by condition for comparison.

Dashboard 3: Opioid Prescriptions and Claim Analysis

Link: https://www.kaggle.com/datasets/izzykayu/opioids-and-drug-deaths
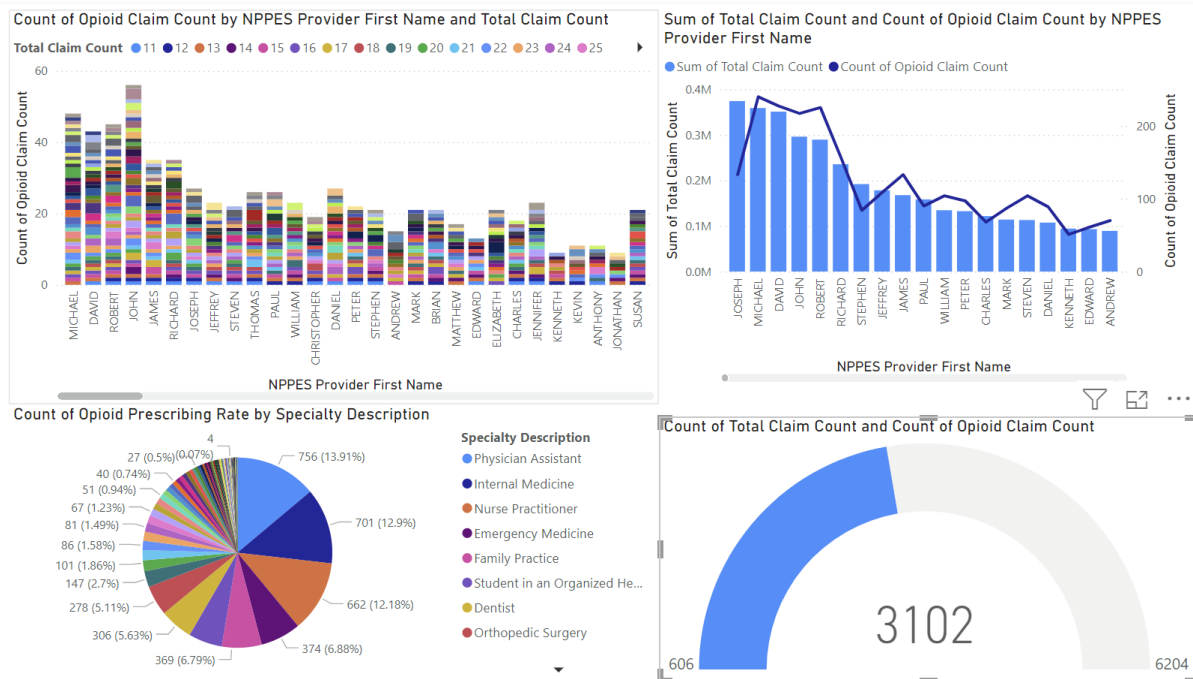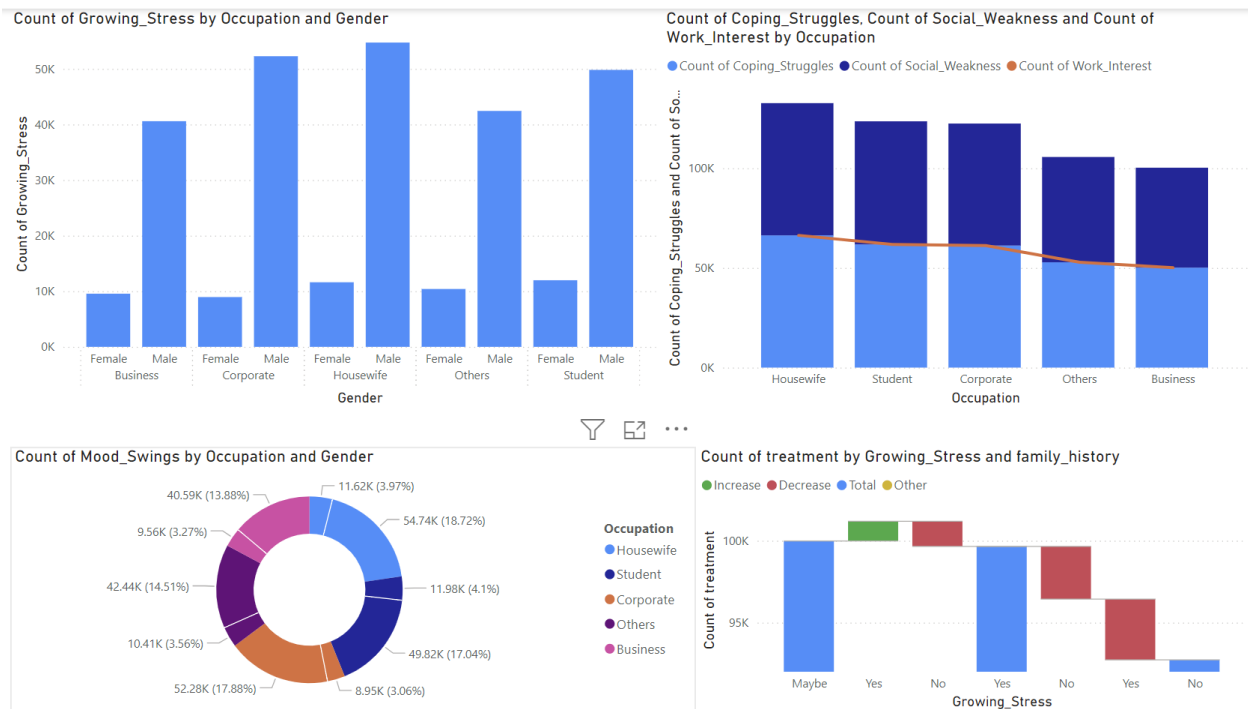

Purpose:

This dashboard aims to analyze trends in opioid prescriptions, providing insights into prescribing patterns by providers and specialty, and assessing the volume of opioid claims to identify areas for intervention.

Content:

1. **Claim Count by Provider Name:** Bar chart showing the opioid claim counts for different providers.

2. **Sum of Total and Opioid Claim Counts:** Combined bar and line chart representing total claims versus opioid claims for providers.

3. **Prescribing Rate by Specialty:** Pie chart categorizing opioid prescribing rates by specialty (e.g., Physician Assistants, Internal Medicine).

4. **Total and Opioid Claims Gauge:** Gauge visual summarizing the ratio of opioid claims against total claims.

Dashboard 4: Stress and Mood Analysis by Demographics

Link: https://www.kaggle.com/datasets/bhavikjikadara/mental-health-dataset
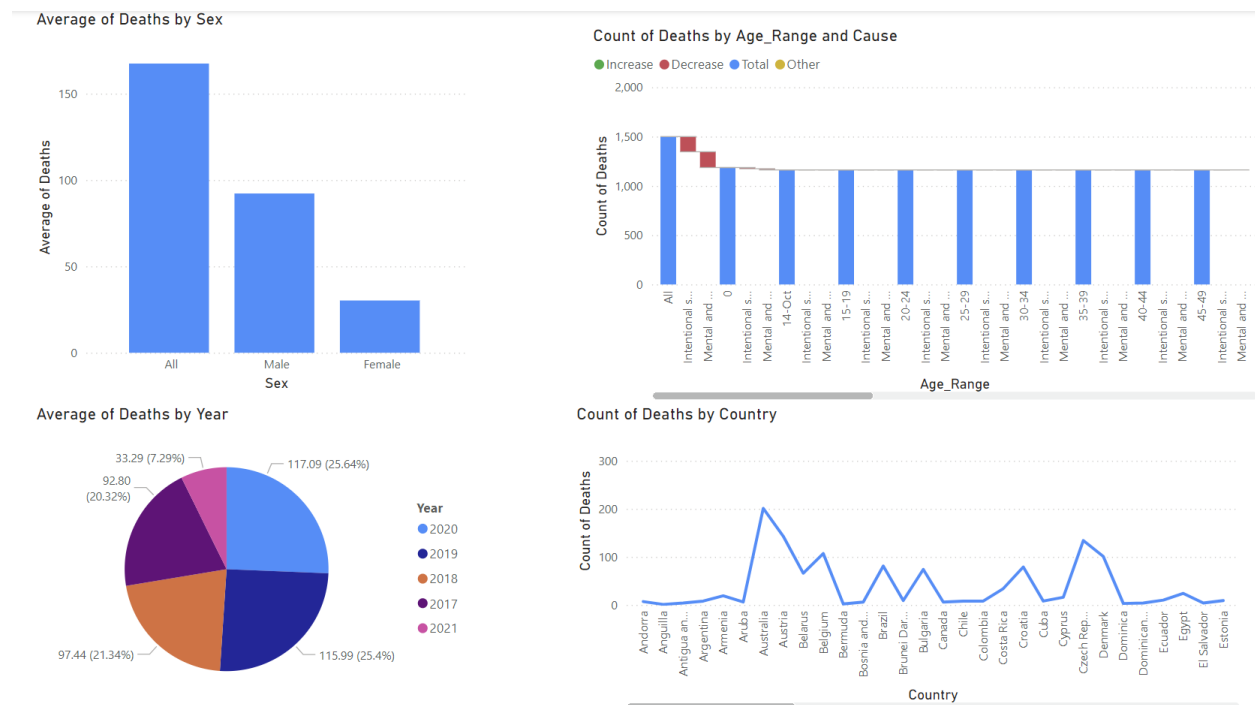

Purpose:
This dashboard examines stress and mood swings across various demographic and occupational groups, identifying patterns related to gender, occupation, and treatment trends.

Content:

1. **Growing Stress by Gender and Occupation:** Bar chart showing the prevalence of stress across genders and professions.

2. **Coping Struggles by Occupation:** Stacked bar chart showing struggles, social weaknesses, and work interests.

3. **Mood Swings by Gender and Occupation:** Pie chart illustrating the proportion of mood swings by demographic and job types.

4. **Treatment by Stress and Family History:** Waterfall chart analyzing the treatment status linked to stress and family history.

Dashboard 5: Mortality Analysis by Demographics and Cause

Link: https://www.kaggle.com/datasets/thomaseltonau/self-harm-and-substance-abuse-deaths-worldwide?resource=download
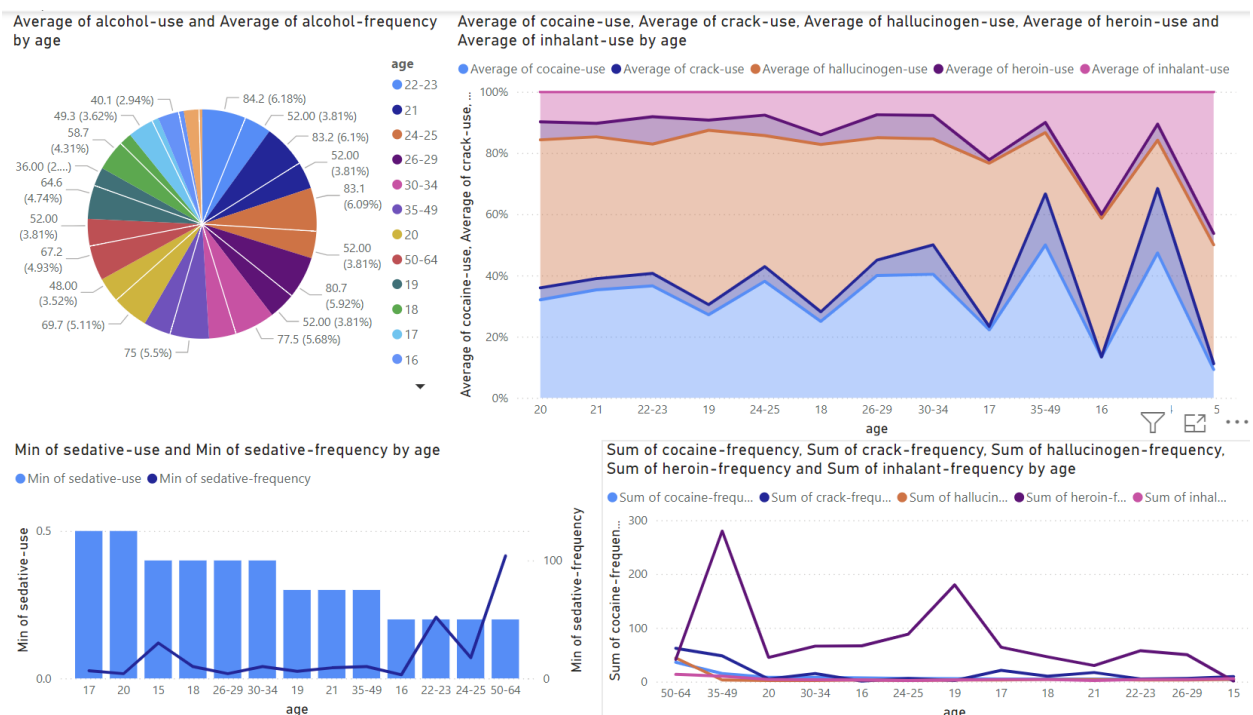

Purpose:
Assess mortality trends across age, gender, cause, and geography to understand patterns and inform public health interventions.

Content:

1. **Average Deaths by Sex:** Bar chart showing mortality averages segmented by gender.

2. **Deaths by Age Range and Cause:** Bar chart analyzing deaths across different age groups and their associated causes.

3. **Deaths by Year:** Pie chart summarizing yearly averages.

4. **Deaths by Country:** Line graph presenting a geographical distribution of deaths.

Dashboard 6: Substance Abuse Analysis by Age

Link: https://www.kaggle.com/datasets/tunguz/drug-use-by-age?resource=download

Purpose:

This dashboard visualizes substance use trends across age groups, highlighting frequency and type of substance abused for targeted prevention strategies.

Content:

1. **Alcohol Use by Age:** Pie chart showing the average use and frequency of alcohol across age groups.

2. **Substance Use by Age:** Stacked area chart analyzing the use of cocaine, crack, hallucinogens, and inhalants by age.

3. **Sedative Use Trends:** Bar chart showing minimum sedative use and frequency by age.

4. **Frequency of Substance Use:** Line chart visualizing frequency trends for substances like cocaine, heroin, and hallucinogens across age ranges.