

COVID-19 using Cognos

Project Definition:

The project involves analyzing COVID-19 cases and deaths data using IBM Cognos. The objective is to compare and contrast the mean values and standard deviations of cases and associated deaths per day and by country in the EU/EEA. This project encompasses defining analysis objectives, collecting COVID-19 data, designing relevant visualizations in IBM Cognos, and deriving insights from the data.

Design Thinking:

1. **Analysis Objectives:** Define the specific objectives of analyzing COVID-19 cases and deaths data, such as comparing mean values and standard deviations.
2. **Data Collection:** Obtain the provided data file containing COVID-19 cases and deaths information per day and by country in the EU/EEA.
3. **Visualization Strategy:** Plan how to visualize the mean values and standard deviations using IBM Cognos to create informative charts and graphs.
4. **Insights Generation:** Identify potential insights from the comparison of mean values and standard deviations of cases and deaths.

The primary objectives of COVID-19 analysis are:

1. **Understanding Transmission:** Analyzing how the virus spreads, identifying super-spreader events, and determining the effectiveness of mitigation measures.
2. **Epidemiological Tracking:** Monitoring and analyzing the course of the pandemic, including infection rates, geographic spread, and trends over time.
3. **Vaccine Efficacy:** Assessing the effectiveness and safety of vaccines, tracking vaccination coverage, and studying breakthrough cases.

4. **Variant Surveillance:** Identifying and monitoring new variants of the virus, assessing their impact on transmission and vaccine efficacy.
5. **Healthcare System Capacity:** Analyzing the strain on healthcare systems, assessing the availability of critical resources like ventilators and ICU beds.
6. **Public Health Measures:** Evaluating the impact of interventions such as lockdowns, mask mandates, and social distancing on controlling the spread of the virus.
7. **Economic Impact:** Analyzing the economic consequences of the pandemic, including unemployment rates, GDP growth, and government relief efforts.
8. **Mental Health and Social Impact:** Studying the psychological and social effects of the pandemic, including mental health challenges and social isolation.
9. **Healthcare Treatment and Therapeutics:** Researching treatments and therapeutics for COVID-19, including clinical trials and drug efficacy studies.
10. **Global Collaboration:** Promoting international cooperation in data sharing, research, and resource allocation to combat the pandemic effectively.

These objectives have evolved as our understanding of the virus has grown and as new challenges have arisen during the course of the pandemic.

