PROJECT REPORT: COVID-19 DATA ANALYSIS

1. Introduction

In this work, we aim to analyse COVID-19 data to gain insights into the spread of the virus and associated mortality. Our study uses IBM Cognos and focuses on comparing the standard deviation and accuracy of COVID-19 cases and associated deaths. Our findings will help us understand trends, changes and potential relationships.

2. Data creation

The COVID-19 dataset was uploaded to IBM Cognos, and data cleaning was performed to check for missing values or outliers. The dataset includes information on cases and deaths.

3. Data visualization

- ### Comparison of mean values
  Bar charts were generated to compare the number of associated cases and associated deaths in different groups (e.g. region, etc.).

- ### Standard deviation comparison
  Box plots were used to visualize the distribution of cases and deaths, highlighting medians, quartiles, and potential extremes.

- ### Long-term trends
  The graph was used to track trends in incidence and mortality over time, allowing us to track the evolution of the epidemic.

- ### Communication analysis
  Scatter plots were constructed to examine possible relationships between population size and mortality. Correlation coefficients were calculated to quantify these relationships.

4. Research and analysis Trends

We observed significant variability in COVID-19 cases and deaths across regions. These changes may be due to factors such as demographics, health care, and public health policies. Correlation: Our study shows a strong positive association between population size and associated mortality. As cases rise, so do deaths. This relationship underscores the importance of timely preventive and therapeutic interventions.

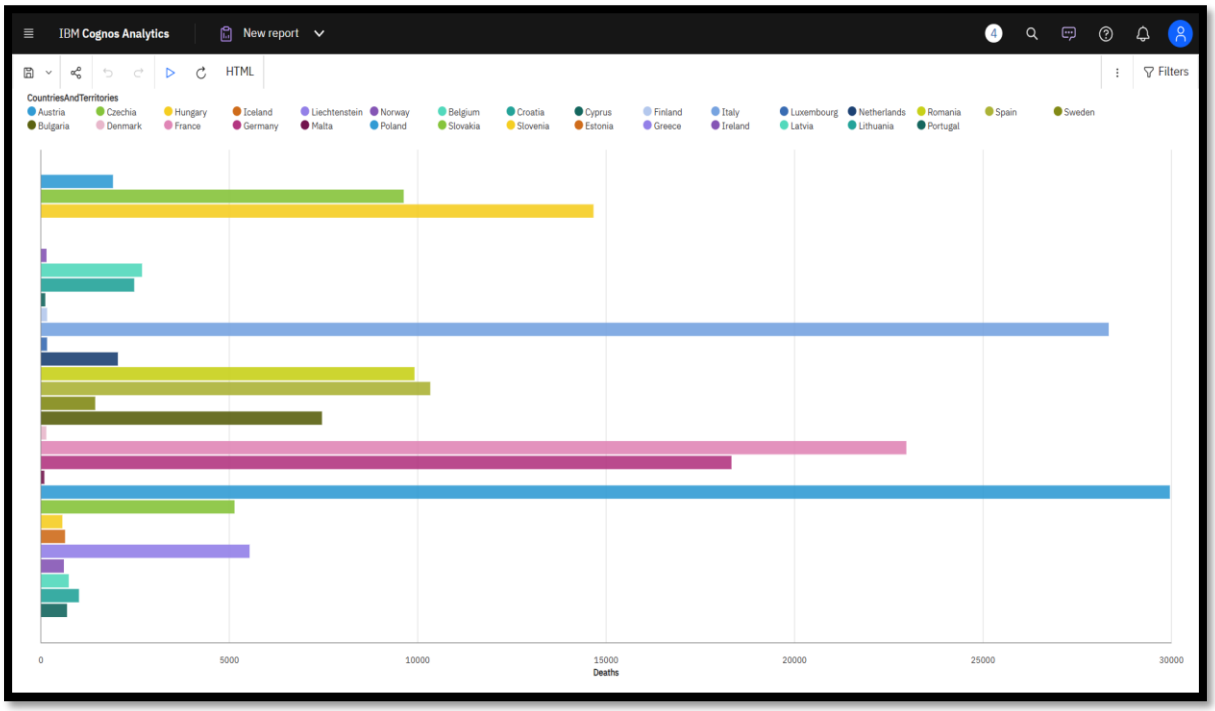
5. Conclusions

The project data analysis using IBM Cognos provided valuable insights into the COVID-19 epidemic. Trends and changes were identified, providing potential areas for targeted intervention. Correlational analysis emphasizes the importance of proactive measures to reduce the spread of the virus and save lives.

DATA VISUALIZATION AND ANALYSIS

- Number of associated cases by countries and territories.

- Number of associated deaths by countries and territories.



- Standard Deviation for distributed cases by date.

- Standard Deviation for distributed deaths by date.

- Relationship of cases and deaths over dates.