COVID-19 Cases Analysis Using IBM Cognos

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PHASE-4

DEVELOPMENT PART 2

# 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.

# 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.

# 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.

# Research and analysis Trends

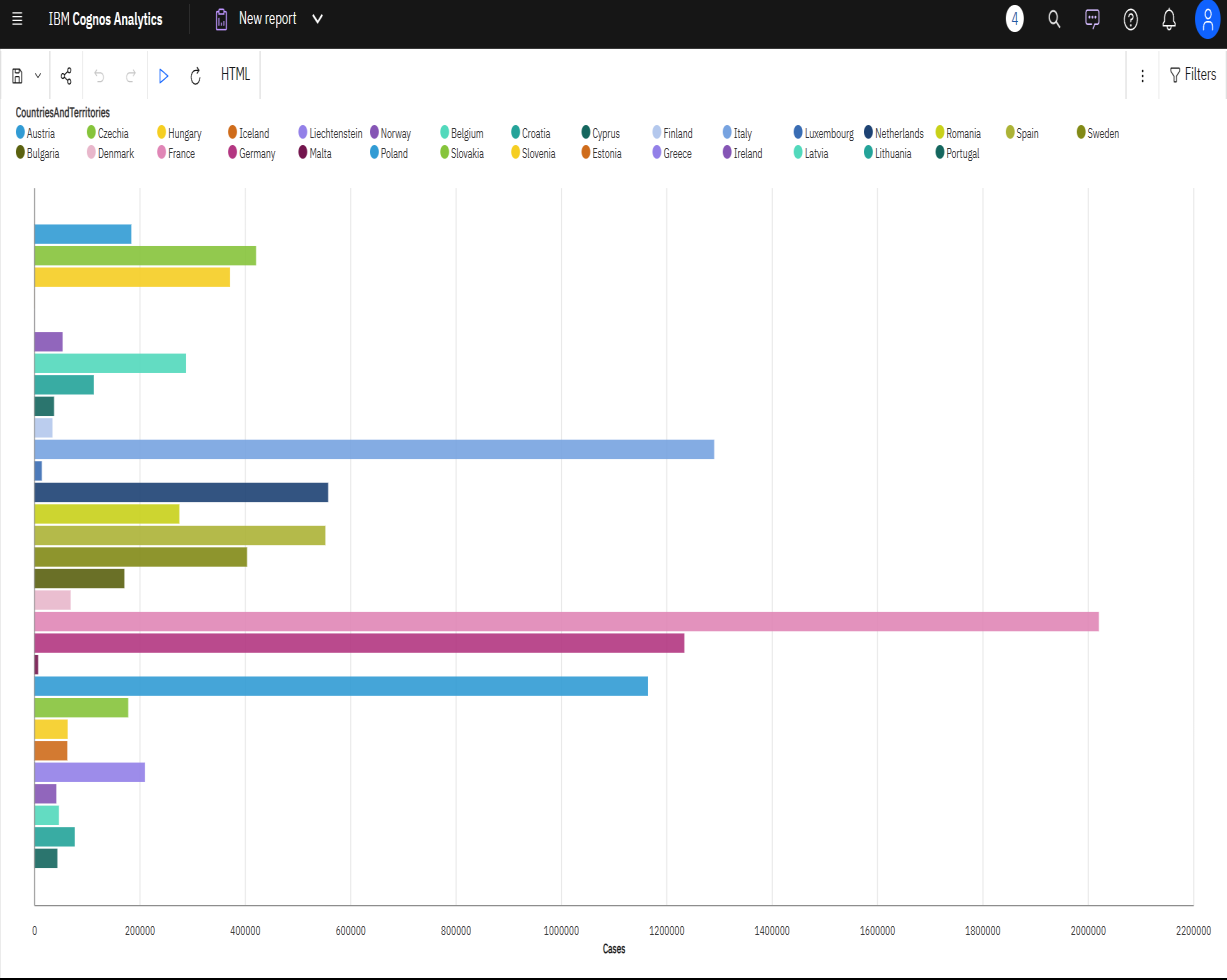
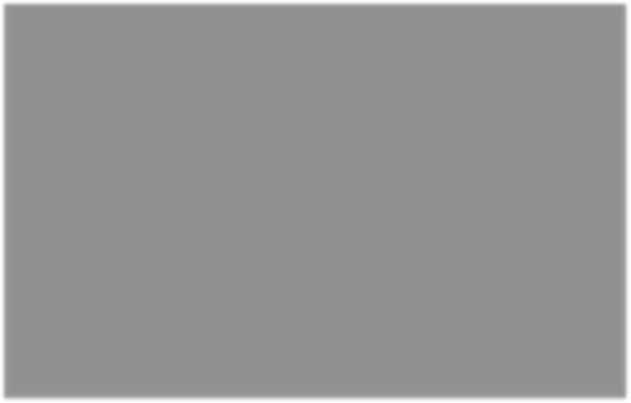
We observed significant variability in COVID-19 cases and deaths across regions. These changes may be due to factors such as demographics, health care, and public health policies. Correlation: Our study shows a strong positive association between population size and associated mortality. As cases rise,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

# Conclusions

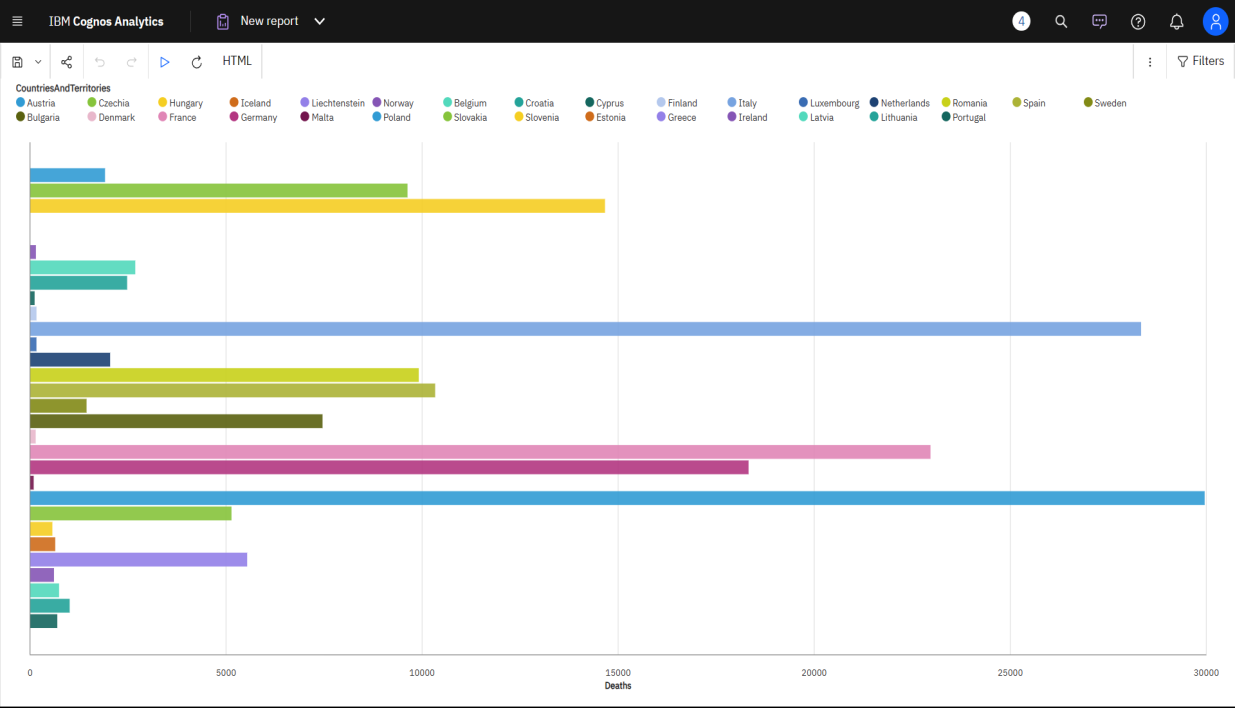
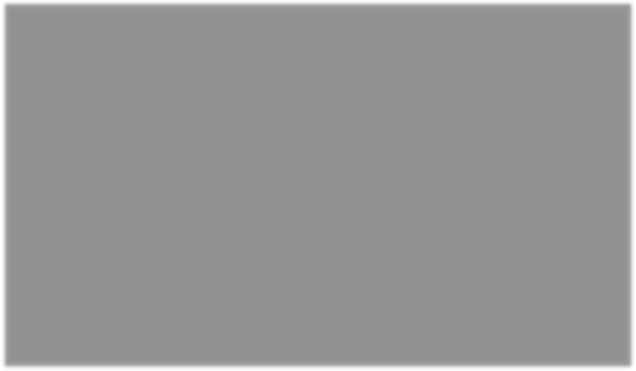
The project data analysis using IBM Cognos provided valuable insights into the COVID-19 epidemic. Trends and changes were identified, providing potential areas for targeted intervention. Correlational analysis emphasizes the importance of proactive measures to reduce the spread of the virus and save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

# DATA VISUALIZATION AND ANALYSIS

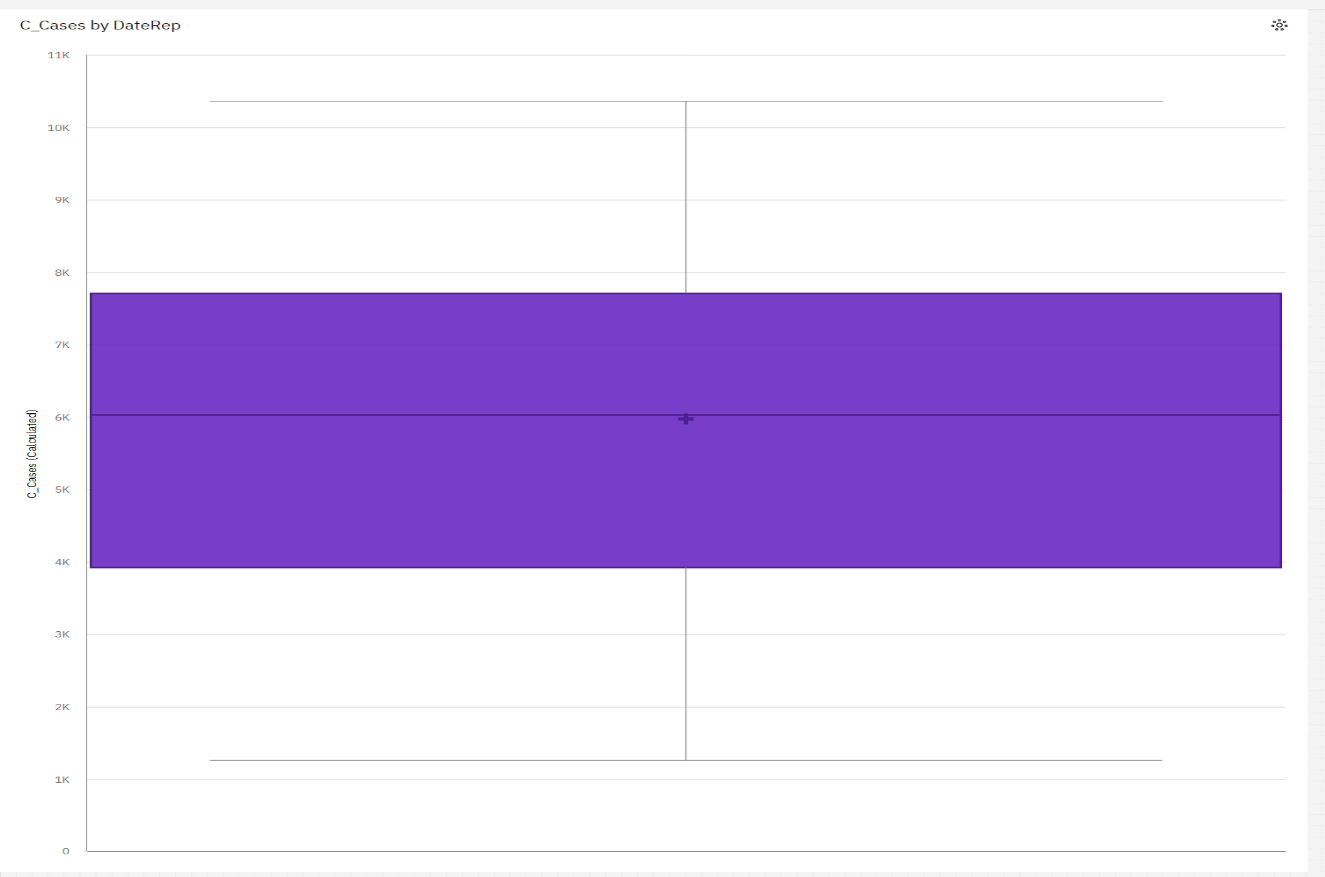
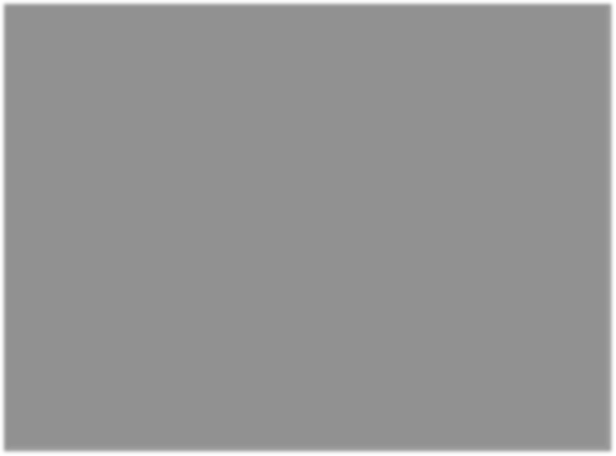
## Number of associated cases by countries and territories.



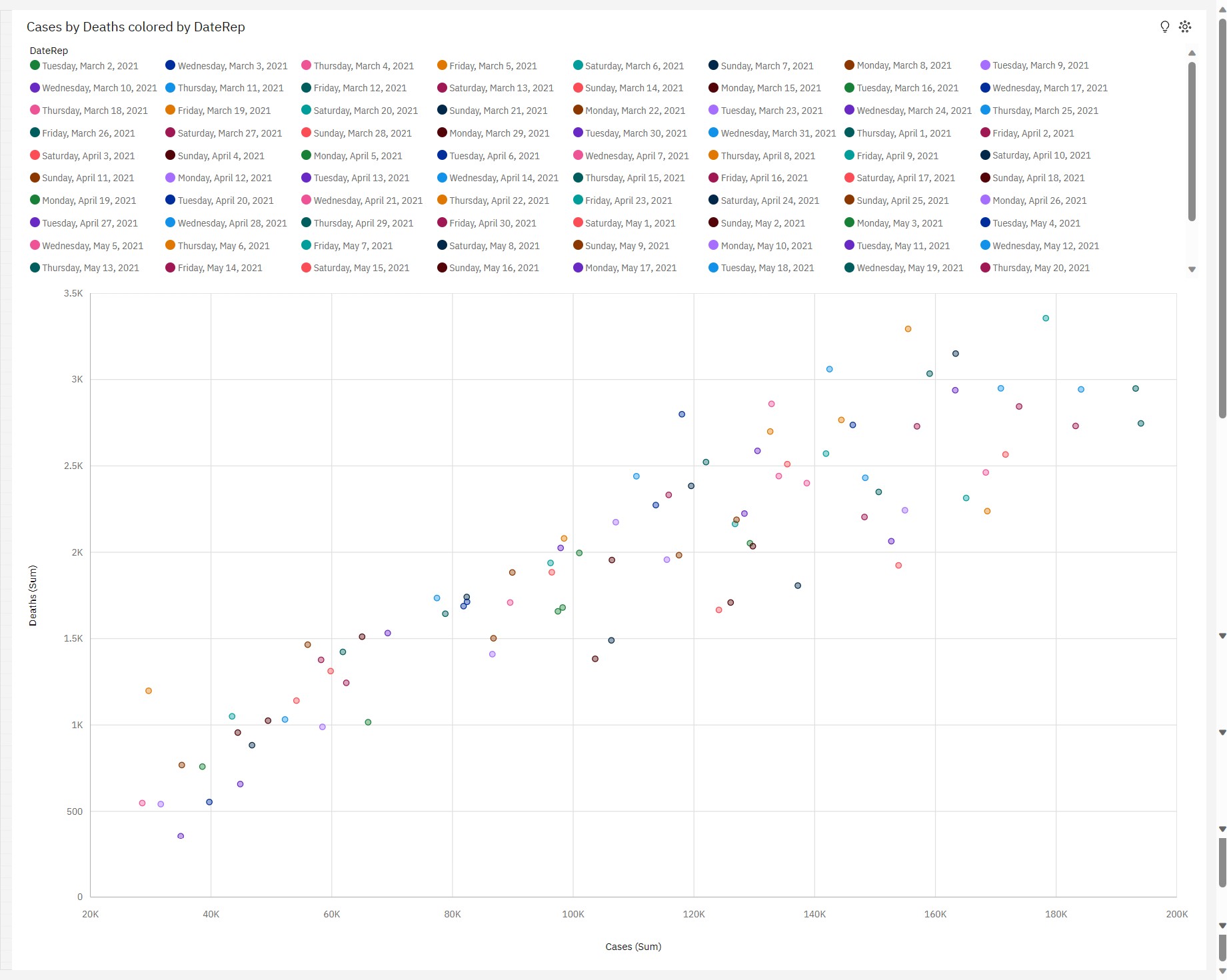
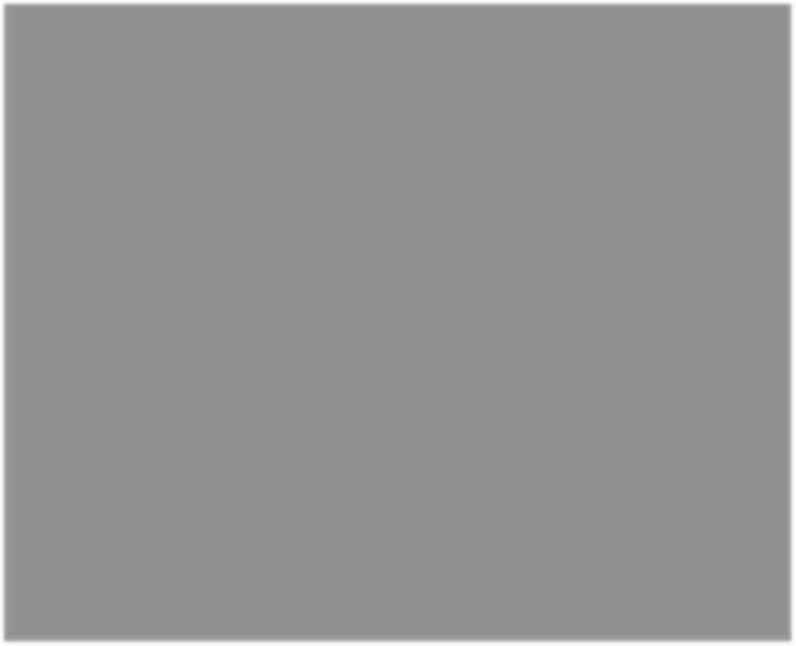
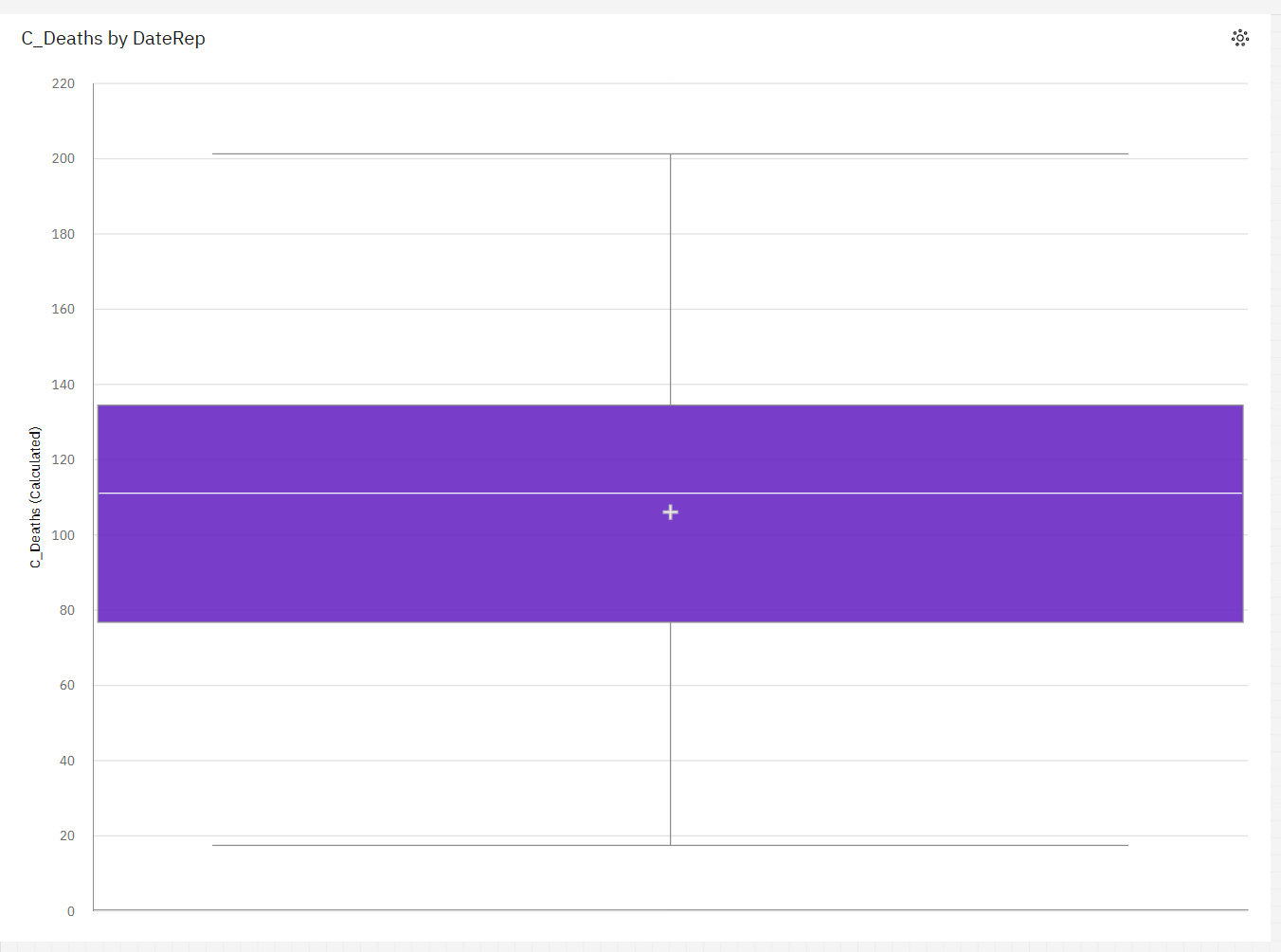
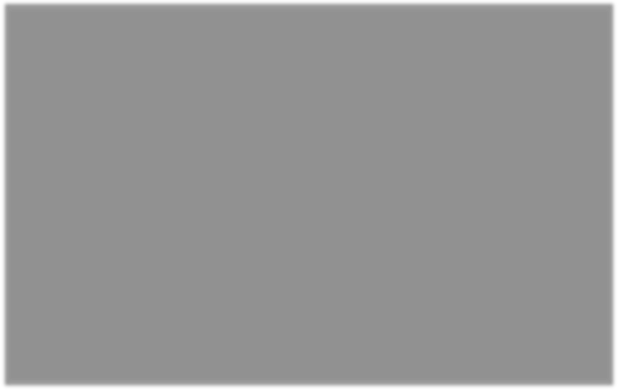
* Number of associated deaths by countries and territories.



## Standard Deviation for distributed cases by date.



* Standard Deviation for distributed deaths by date.



## Relationship of cases and deaths over dates.