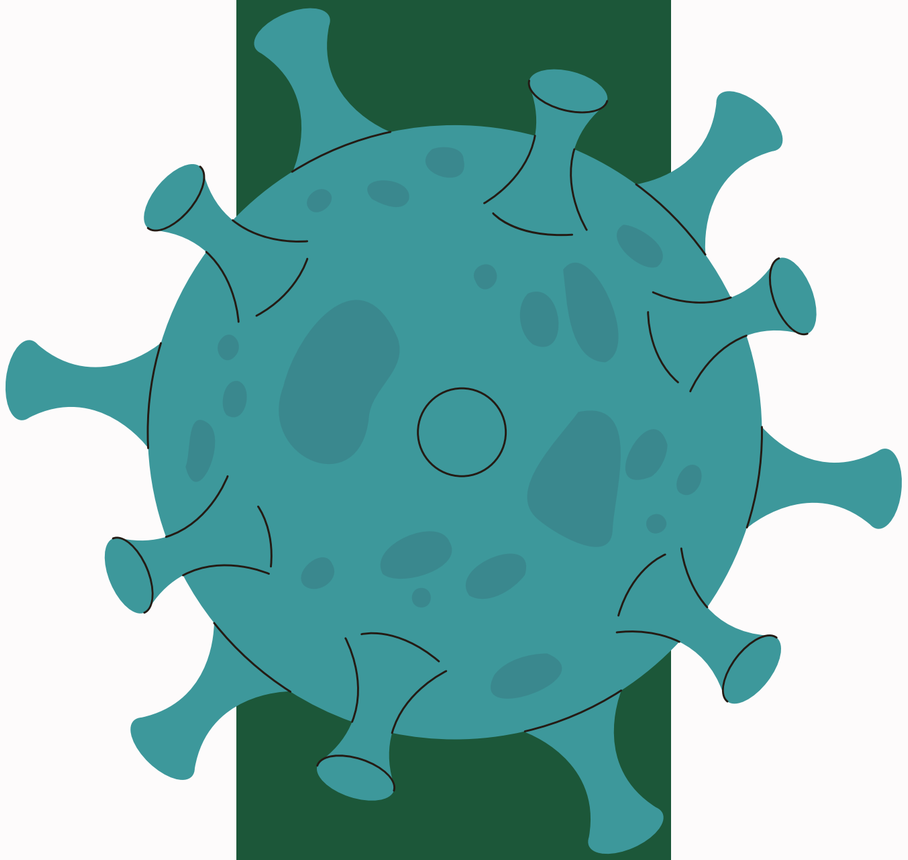
June 2023

WORLD COVID DATA

APRIL 2023



Felix Mmeka

Content

PROBLEM STATEMENT

Determine the total number of reported Covid-19 cases worldwide, providing a comprehensive understanding of the global impact of the pandemic.

Objectives

Key questions answered

Objective 01

What is the total world number of reported Covid-19 cases?

Objective 02

What is the total number of deaths and death percentage (mortality rate) globally?

Objective 03

Is there a correlation between total deaths and income class?

Objective 04

What is the distribution of total reported deaths per continent?

Objective 05

What is the distribution of total infection per country globally?

Objective 06

What is the distribution of Covid-related deaths per country over the project time span?

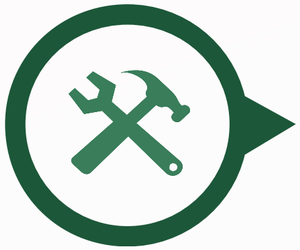
Data

Limitations and tools

No clear definition of how income classes were split.

Migration, deaths and births over project time were not considered with reference to the total population, impacting percentages used.

Potential issue with reported data in developing countries



MS Excel | SQL (Google BigQuery) | Tableau

Methodology

01

Downloaded data as CSV from the website.

Conducted preliminary data cleaning and analysis in MS Excel and later in BigQuerry for further cleaning and analysis.

02

03

Analyzed data set based on objectives and extracted insight for recommendations

Formatted and finalized data visualization using Tableau Public.

04

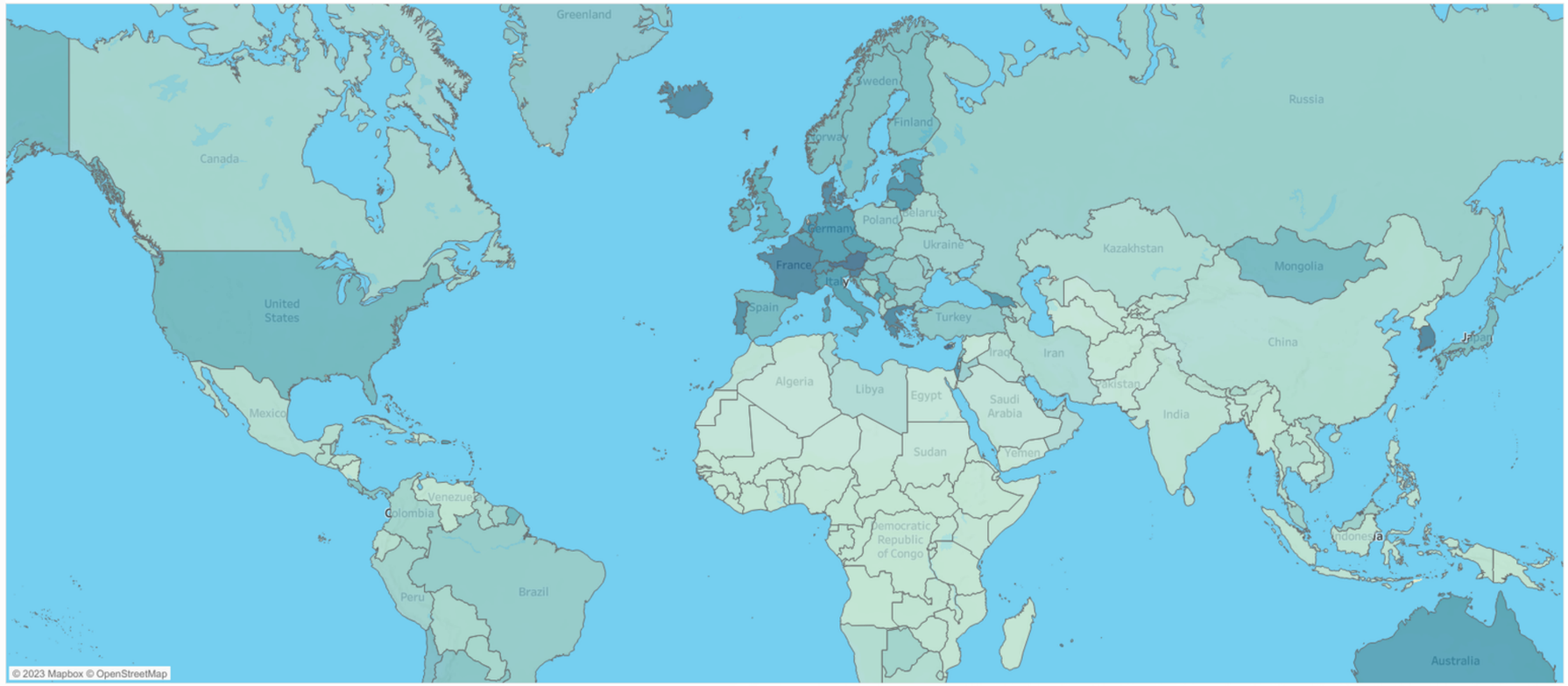
COVID-19 Global impact

Infection overview around the globe

Global Numbers

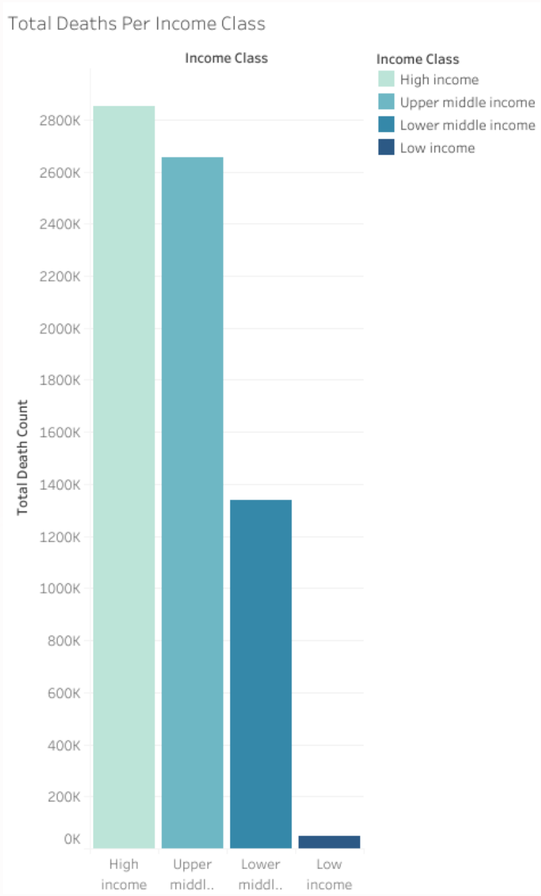
Total Cases	Total Deaths	Death Percentage
763,128,258	6,899,687	0.9041

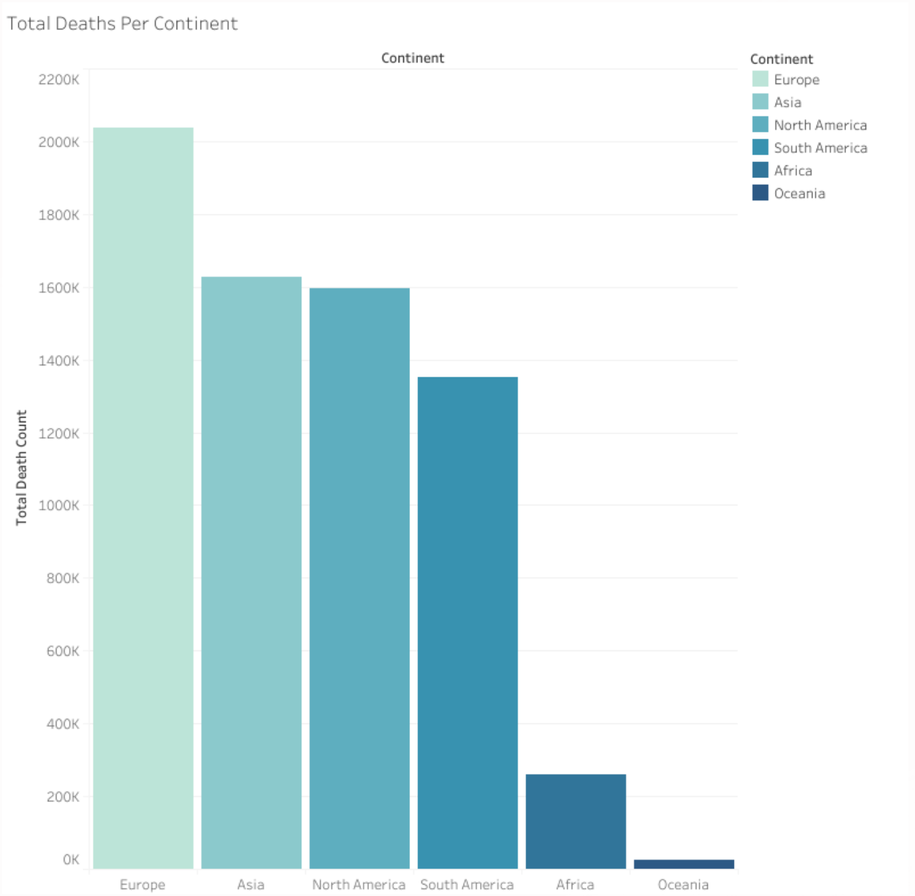
Percent Population Infected Per Country



COVID-19 World Death

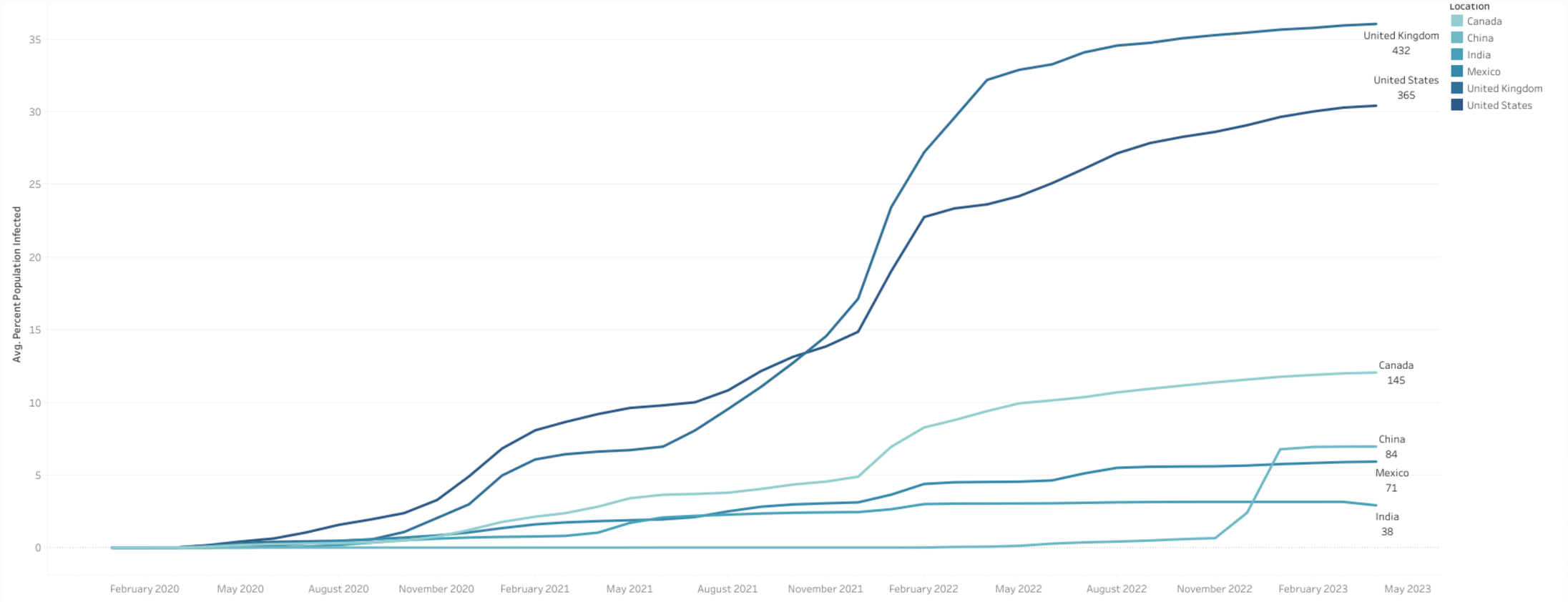
Death cases around the globe





COVID-19 Infection

Infections over time for specific countries



Insights

01 Severity of COVID-19 and impact on human life

COVID-19 was most impactful between November 2020 to April 20233 (1.25yrs), in which about 75%-90% of total infections occurred in most countries.

02 Geographical spread of COVID-19: region and country

There's a positive correlation between a country's GDP and the impact of COVID-19. Continents with a higher ratio of developed countries showed a higher mortality and infection rate of the virus.

03 Socioeconomic factors influencing mortality rates

There is a positive correlation between income class and the spread of the virus. Higher income classes showed a higher mortality and infection rate.

04 Variances and fluctuations across regions

Although COVID-19 had a higher infection of about 10% globally, the mortality rate is less than 1% globally.

THANK YOU

References

Dataset source: [Link to Dataset]

SQL queries: [Link to SQL queries]

Tableau visualization: [Link to Tableau visualization]