PHASE 5

COVID – 19 CASES ANALYSIS PROJECT

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Project Documentation & Submission

We aim to study COVID-19 cases using IBM Cognos. Our goal is to provide insights on the COVID-19 trends and effects.

# Design Thinking Process

* **Define:** We aimed to find ways to utilize IBM Cognos in collecting helpful COVID- 19 data, which could help illustrate pandemic trends and impacts.
* **Innovate:** Next, we brainstormed different solutions. We pondered various data colle- ction and preparation methods. We also explored several IBM Cognos features and visual representations for data analysis.
* **Prototype:** We then prototyped some of our ideas by creating a series of IBM Cognos reports and dashboards.

# Development Phase

Our project had these stages:

* **Understanding the data:** We used a tool called IBM Cognos for COVID-19 data. We made several types of reports and dashboards to see the data and find out trends and patterns.
* **Finding insights:** We looked into our data results to find useful knowledge about COVID-19 trends and effects.

# Exploring COVID-19 Data with IBM Cognos

Our team used IBM Cognos to study COVID-19 data. We found several features particularly helpful:

* **Crosstabs:** This tool helped us summarize data and spot variable relationships.
* **Charts:** Line, bar, and pie charts helped us see data trends and patterns more clearly.
* **Maps:** They helped us see where COVID-19 cases were happening.
* **Dashboards:** We made dashboards to see many reports and images at once. They made tracking key info over time easy.

## Our analysis of the COVID-19 data generated a number of insights that can aid in understanding COVID-19 trends and impacts. Some of the key insights include:

* The global number of COVID-19 cases has increased significantly over time.
* The rate of increase in COVID-19 cases has varied across different countries and regions.
* The pandemic has had a significant impact on public health, economic activity, and social life.

## The insights from our analysis can aid in understanding COVID-19 trends and impacts in a number of ways. For example, the insights can be used to:

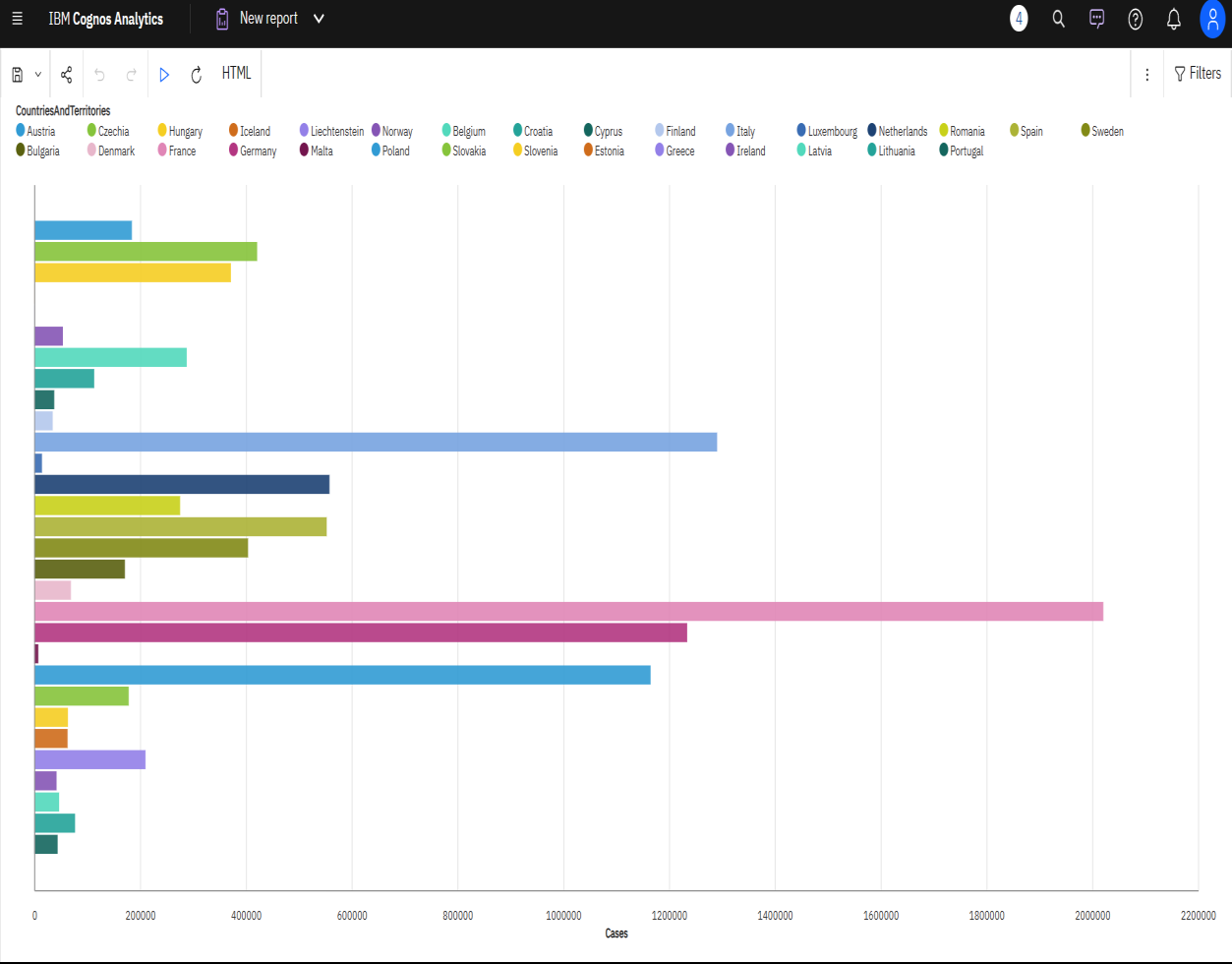
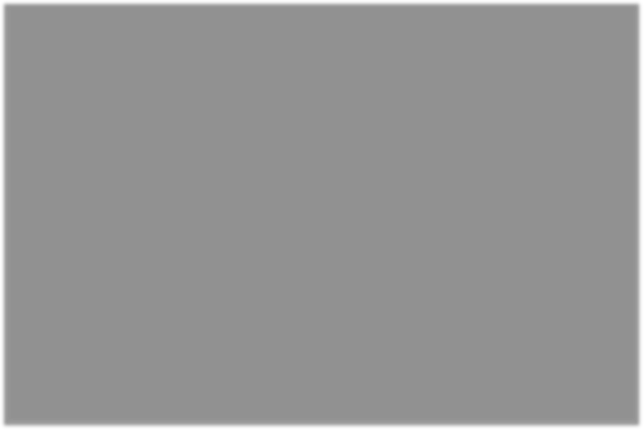
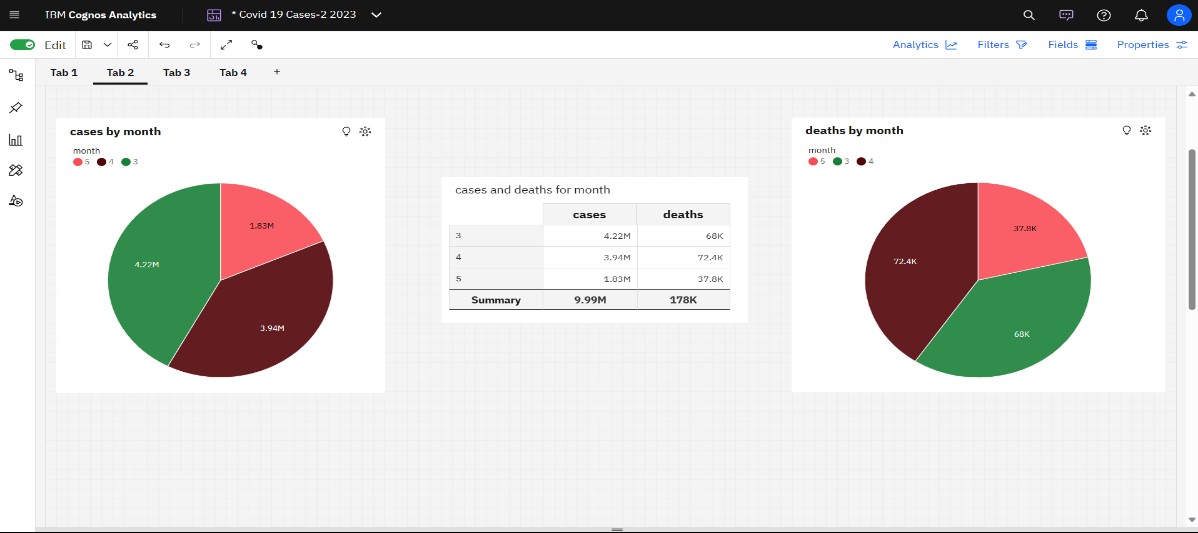
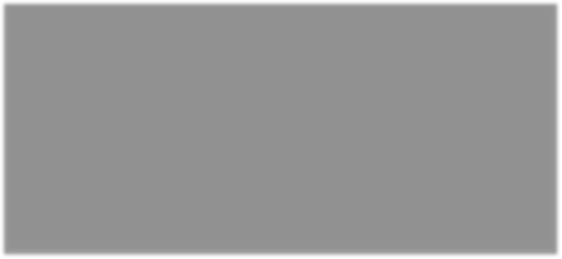
* Identify countries and regions that are at high risk for COVID-19 cases.
* Track the spread of the virus over time and identify emerging cases.
* Develop strategies to avoid the impact of the pandemic on public health, the economy, and society.

## To replicate the analysis and generate visualizations using IBM Cognos, you will need to:

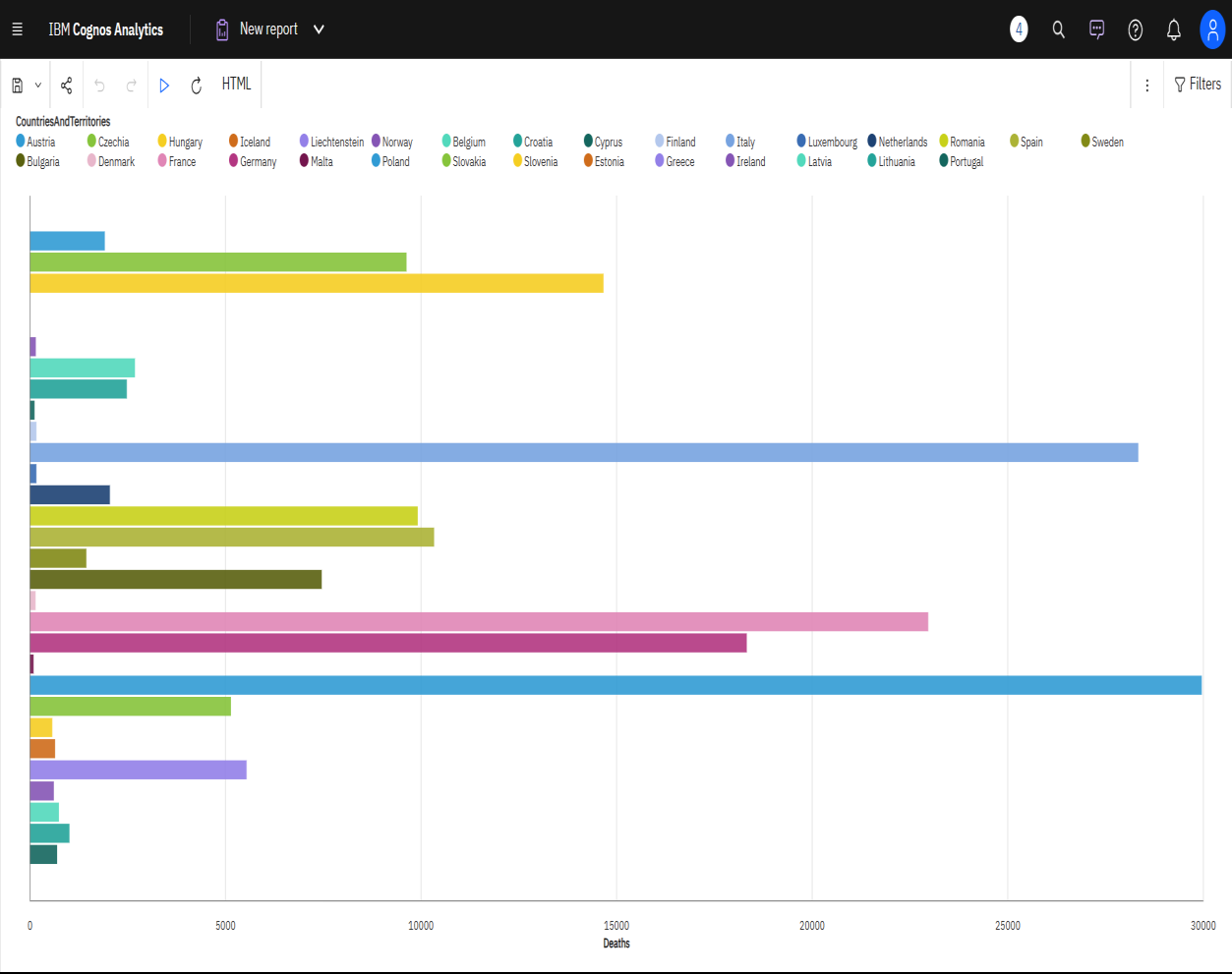
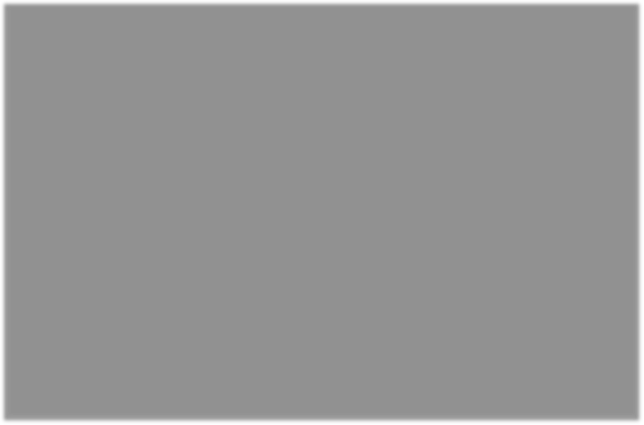
* Collect COVID-19 data from a variety of sources.
* Clean and prepare the data for analysis in IBM Cognos.
* Create a new IBM Cognos model and import the data.
* Create reports and dashboards to visualize the data and identify trends and patterns.

## Here are some example outputs of the visualizations and derived insights:

* Pie chart showing the global number of COVID-19 cases and deaths over time.



* Bar chart showing the countries by number of COVID-19 cases and deaths over time.



* Map showing the geographic distribution of COVID-19 cases and deaths

