PROJECT TITLE

Analyzing COVID-19 Cases and Deaths Data using IBM Cognos

TEAM MEMBERS

MANOJ S	2021115061
	202111300

MINI GNANA SEKARAN 2021115062

MOHAMMED NIHAL J H 2021115063

MRIDULA P 2021115064

DHARSAN S 2021115309

PHASE 4

INTRODUCTION

In this report, we delve into the exploration and analysis of COVID-19-related data from March, April, and May 2021. Specifically, we focus on examining deaths and their causes in different countries during these three crucial months using various visualizations.

This analysis is made possible through the utilization of IBM Cognos Analytics, a powerful business intelligence and data visualization tool. IBM Cognos Analytics empowers users to transform raw data into meaningful insights through a wide range of visualization techniques. It enables data-driven

decision-making, offering a comprehensive suite of tools for data exploration, reporting.

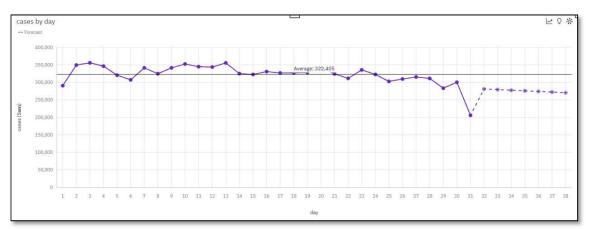
STEPS INVOLVED:

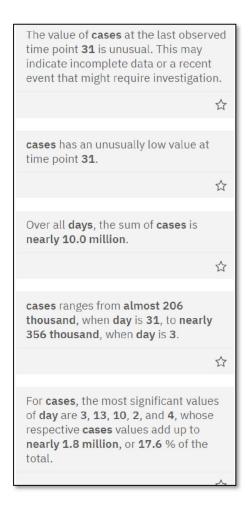
- 1. **Data Import:** The first step in data analysis with Cognos Analytics is importing pre-processed data. This tool supports various data sources, allowing to seamlessly connect to covid dataset.
- 2. **Data Preparation:** Cognos Analytics provides data preparation capabilities that help clean, transform, and structure data for analysis. This ensures data accuracy and reliability.
- 3. **Data Exploration:** Once the data is ready, we can explore it using different charts, graphs, and tables. The tool offers a wide range of visualization options, including bar charts, pie charts, line charts, heat maps, and more.
- 4. **Dashboard Creation:** One of the most powerful features of Cognos Analytics is the ability to create interactive dashboards. Dashboards allow to combine multiple visualizations and key metrics into a single view, making it easy to spot trends and insights.

5. **Interactivity:** Visualizations in Cognos Analytics are highly interactive. Filtering, drilling down, and drilling through data to explore specific aspects or gain deeper insights.

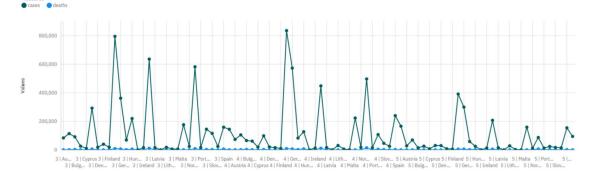
VISUALIZATIONS:

Line graph of cases vs days:





Line graph of cases and deaths vs countries and Territories:



month 3 has the highest total cases due to countriesAndTerritories
France.



cases is unusually high when month - countriesAndTerritories is 4|France and 3|France.



It is projected that by 2021-06-19, France will exceed Germany in cases by over 14 thousand.



It is projected that by 2021-06-19, 3 will exceed 4 in cases by nearly 251 thousand.

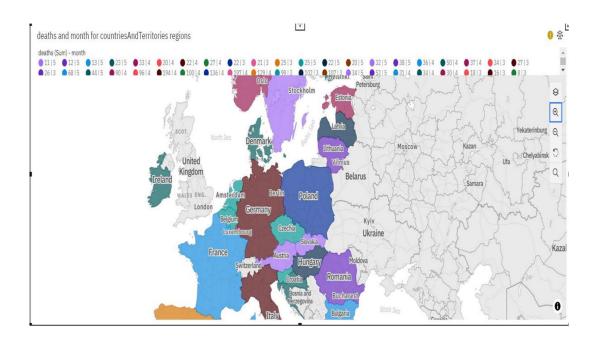


countriesAndTerritories France has the highest cases at over 2.0 million, out of which month 4 contributed the most at over 835 thousand.

Spiral graph of deaths Vs countries and Territories:	

deaths by countriesAndTerritories colored by month deaths is most unusual when countriesAndTerritories is Slovakia and Italy. deaths is unusually low when month is France has a deaths of 897 for dateRep 2021-03-27. 2021-04-10 dateRep accounted for 3% of Italy deaths compared to 1% for France. 4 month accounted for 41% of Italy deaths compared to 39% for France.

Maps of deaths and month Vs countries and Territories:



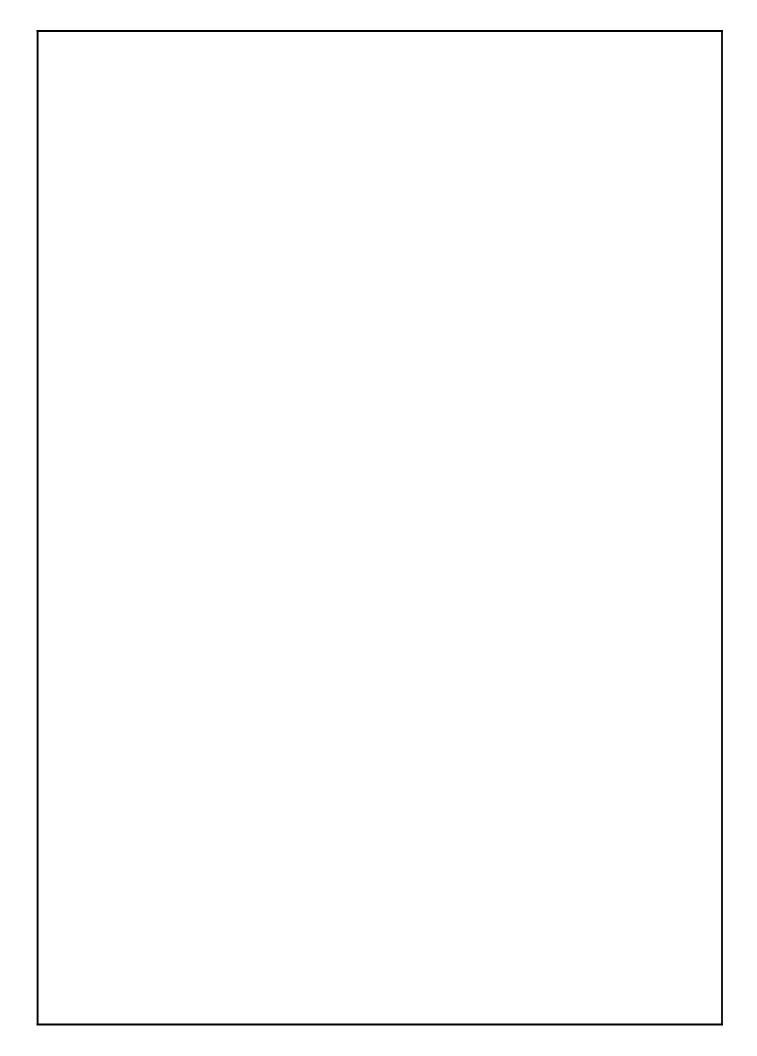


deaths 343 has the highest Total cases but is ranked #107 in Unaggregated countriesAndTerritories.

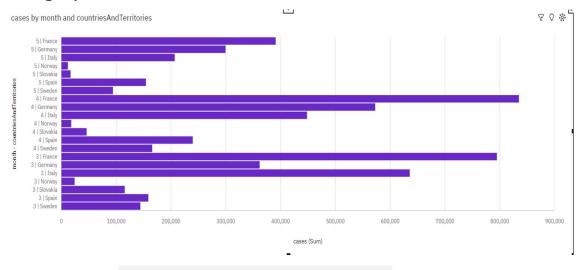


deaths 0 has the highest Unaggregated countriesAndTerritories but is ranked #10 in Total cases.





Bar graph of cases Vs month and Countries and Territories:



month 4 has the highest total cases due to countriesAndTerritories France.



cases is unusually high when month - countriesAndTerritories is 4|France and 3|France.



It is projected that by **2021-06-19**, **France** will exceed **Germany** in **cases** by **over 14 thousand**.

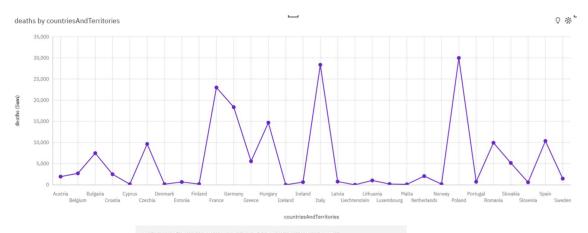


It is projected that by 2021-06-19, 3 will exceed 4 in cases by almost 122 thousand.



countriesAndTerritories France has the highest cases at over 2.0 million, out of which month 4 contributed the most at over 835 thousand.

Line graph of deaths Vs Countries and Territories:



deaths is unusually high when countriesAndTerritories is Poland, Italy and France.



It is projected that by **2021-06-19**, **Germany** will exceed **Poland** in **deaths** by **45**.



From **2021-03-27** to **2021-03-28**, **France**'s **deaths** dropped by **79**%.



Across all values of countriesAndTerritories, the sum of deaths is over 178 thousand.



deaths ranges from 1, when countriesAndTerritories is Iceland, to almost 30 thousand, when countriesAndTerritories is Poland.

