Exploratory Analysis of Global Covid-19 Data

NAME:- Christopher Emmanuel I Last updated 29th September 2022



Introduction

COVID-19:- A highly contagious respiratory disease caused by the SARS-CoV-2 virus. SARS-CoV-2 is thought to spread from person to person through droplets released when an infected person cough, sneezes, or talks. It may be spread by touching a surface with the virus on it and then touching one mouth, nose, or eyes.

This project provide a summary on covid-19 cases reported globally relating to confirmed cases, death cases and dates rate across regions/provinces.

Objective

To identify the distribution of covid cases, death and recovery across the globe, and top 5 countries with the highest number of cases and deaths within the period of 3 years.

Data Source

The data used for this project was extracted from

https://github.com/CSSEGISandData/COVID-19/tree/master/

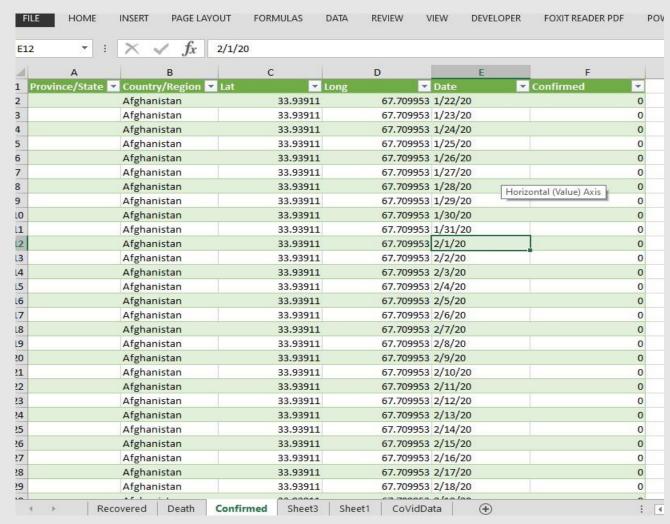
csse covid 19 data/csse covid 19 time se ries Saved In CSV format.

The data is a time series data that is regularly updated

The source of the data is John Hopkin University, USA

The dataset used contains confirmed cases, death and recovery from countries from 2020-2022

Datasets view

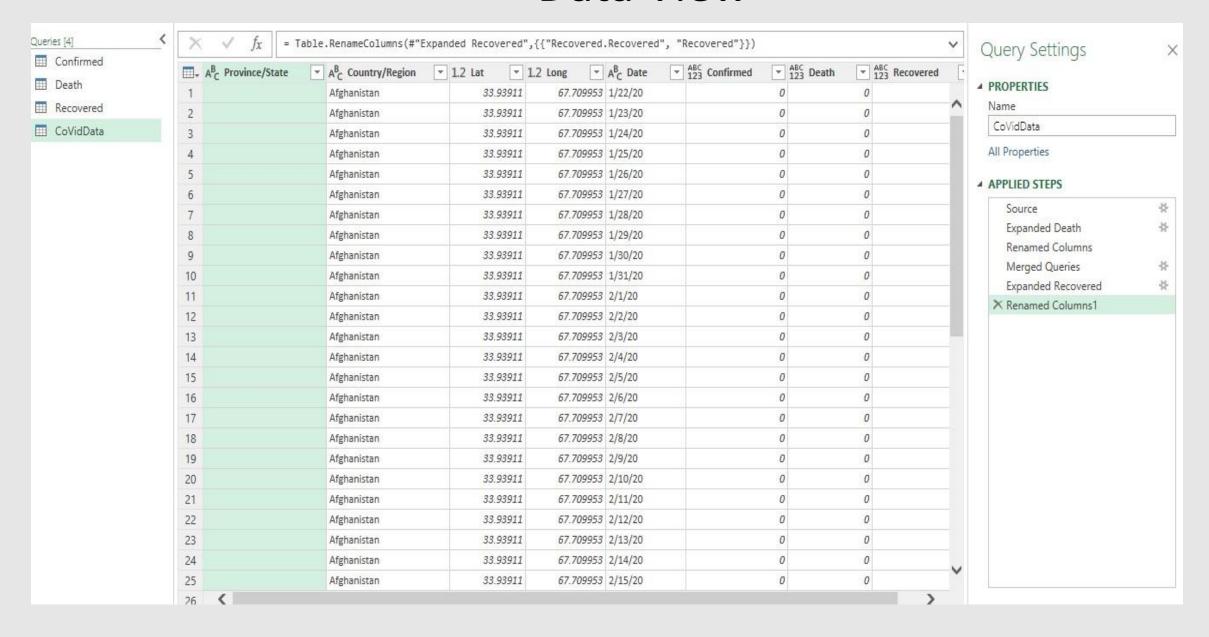


Methodology

The software tools used are:

- Microsoft Excel:- The analysis was carried out using Microsoft Excel
- power query:- The raw datasets were cleaned and merged using Power query
- Pivot tables were used to perform calculations
- PivotCharts were used to visualize insights

Data View



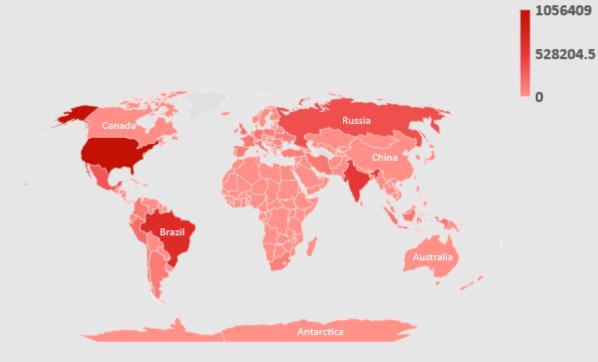
Confirmed cases

- North America, South America, Europe and Asia have high number of confirmed cases.
- Africa has a low number of confirmed cases compared to other continents.
- The total number of cases as at the time the analysis was made is 602,796,643



Death

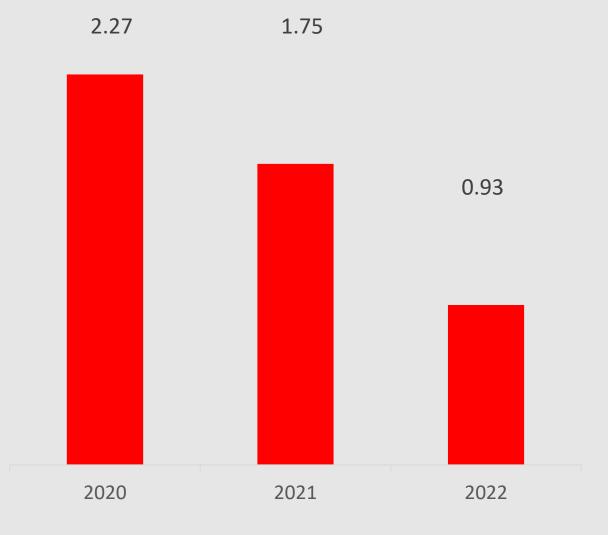
- North America, South America, Europe and Asia have high number of confirmed cases.
- Africa has a low number of deaths compared to other continents.
- The total number of cases as at the time the analysis was made is 8,380,737



Death

Death rate

- While the number of death cases increased from 2020-2021, there was a decrease in the death rate from 2.27% to 1.75.
- The decline continued in 2022, dropping to 0.93
- The increased vaccination drive could be a drive for this however, there is not enough data to back the claim.



Charts View

Confirmed cases by countries

US

India

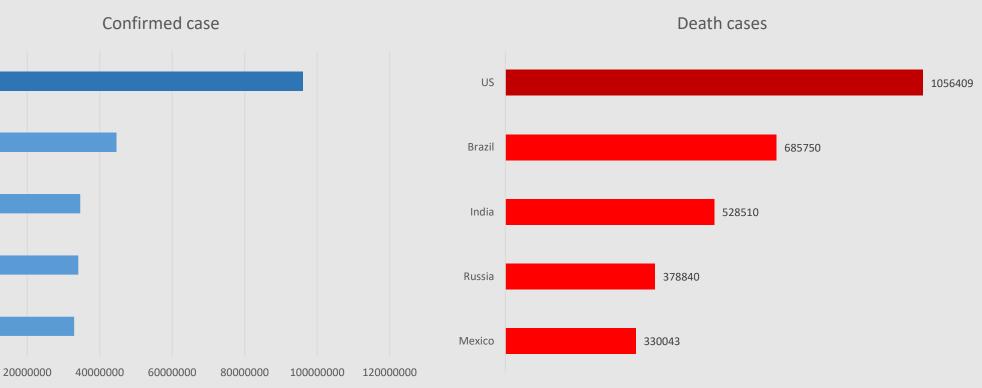
Brazil

France

Germany

Confirmed case

Deaths cases by Countries



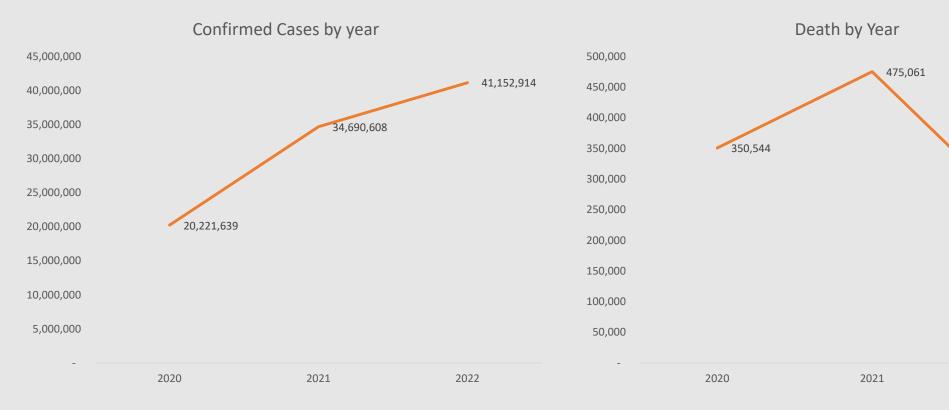
Charts view

Chart view of death cases by year

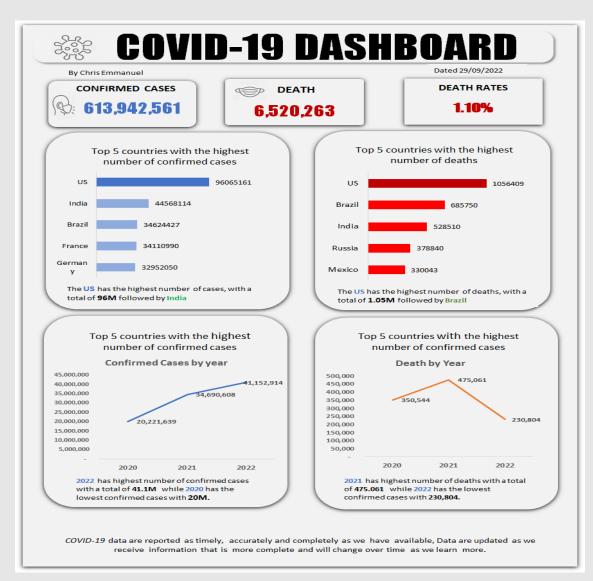
230,804

2022

Chart view of confirmed cases by year



DASHBOARD



It is evident from the analysis that Covid-19 is still in our world as the number of cases keep increasing

Everyone should keep observing Covid-19 precautionary measures

There should be continuous vaccination to protect people from been infected with the virus