**Covid-19 Global Trend**

**Group: F**

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**Description:**

The project examines global coronavirus trends using descriptive and visual analysis. I found the data set at the website below, which is available to the public:  
[Our World in Data - COVID-19 | Kaggle](https://www.kaggle.com/datasets/caesarmario/our-world-in-data-covid19-dataset)

This dataset includes data on all country’s cases of covid diseases as well as additional specific information about the number of cases, deaths, vaccines, and other factors. And this dataset has 228993 records and 33 columns.

**Data Overview and Transformation:**

Given that there are 33 columns and 228993 rows in the data, the column information from the data source is listed below.

Graphical user interface, text, application

Description automatically generated

I have used required columns data to do my analysis and before starting with that I have done the data cleaning activities such as removing the duplicates and removing the nulls. And cleaning the junk records like below are the functions which will perform the mentioned activities:

Graphical user interface, text, application, email

Description automatically generated

**Problem output and Visualization:**

By using this data, we are going to find the output and plot them for the below problem statements:

**Problem statement - 1**:   
 To determine the number of days in each continent without cases and with cases.

**Function Details:**

Graphical user interface, text

Description automatically generated

**Output:**

By seeing the below table, we will get to know for each location how many days with cases and without cases

Table

Description automatically generated

**Problem statement -2:** How much of the world's population was affected by the coronavirus, and what percentage of people died as a result.

**Function Details:**

Graphical user interface, text

Description automatically generated

**Output:**

By seeing the below pie chart, we get to know that Total cases and Total deaths out of the mentioned population.

Chart, pie chart

Description automatically generated

**Problem statement - 3:** Which year had the most COVID cases on each continent.

**Function Details:**

Graphical user interface, text, application, email

Description automatically generated

**Output:**

By seeing the below graph we get to know in the year 2020 and 2021 Asia has registered more cases and in the year 2022 Europe has a leading case.

Chart, bar chart

Description automatically generated

**Problem statement - 4:** Which year had the most COVID deaths on each continent.

**Function Details:**

Text

Description automatically generated

**Output:**

By seeing the below graph we get to know Europe has leading deaths for all the three years.

**Chart, bar chart

Description automatically generated**

**Problem statement - 5:** Which month had the most COVID cases on each continent.

**Function Details:**

Graphical user interface, text, application

Description automatically generated

**Output:**

By seeing the below graphs we get to know in the month of August and September most of the cases are registered.

**Chart, line chart

Description automatically generated**

**Problem statement - 6:** Which month had the most COVID deaths on each continent.

**Function Details:**

A picture containing text

Description automatically generated

**Output:**

By seeing the below graphs we get to know in the month of August and September most of the deaths are registered.

**Chart, line chart

Description automatically generated**

**Problem statement - 7:** Determine how many people on each continent are fully vaccinated.

**Function Details:**

Graphical user interface, text, application

Description automatically generated

A picture containing text

Description automatically generated

**Output:**

The table below shows the number of individuals in each respective continent are fully vaccinated. And in the Graph-1 represents the trend of the fully vaccinated, partially vaccinated, and total booster received. And in Graph-2 represents each continent fully vaccinated data per each year.

Graphical user interface

Description automatically generated

**Graph-1:**

**Chart, bar chart

Description automatically generated**

**Graph-2:**

**Chart, bar chart

Description automatically generated**

**Problem statement - 8:** Determine how many people on each continent are Partially vaccinated.  
  
**Function Details:**

A picture containing text

Description automatically generated

**Output:**

By seeing the below graphs we get to know Asia continent has highest partially vaccination rate than other continents.

Chart, bar chart

Description automatically generated

**Problem statement - 9**: Determine how many people on each continent had a Booster dose  
  
**Function Details:**

Text

Description automatically generated

**Output:**

By seeing the below graphs we get to know Asia continent has taken more booster dose than other continents.

A picture containing shape

Description automatically generated

**Conclusion:**

We can tell that Europe has more deaths than other continents by looking at the graph above. The above graphs reveal that Europe and Asia have had the highest number of cases during the last three years. Additionally, the number of cases reported from August to September is somewhat high. Additionally, there are a lot of deaths reported from August to September. The graphs above show that the Asia continent has the greatest partial and fully vaccinated rate compared to other continents. Thoughts on a booster dose Asia took more booster dose than other continents.