BANL_6600_02 FINAL PROJECT

TEAM MEMBERS:

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COVID-19 Analysis:

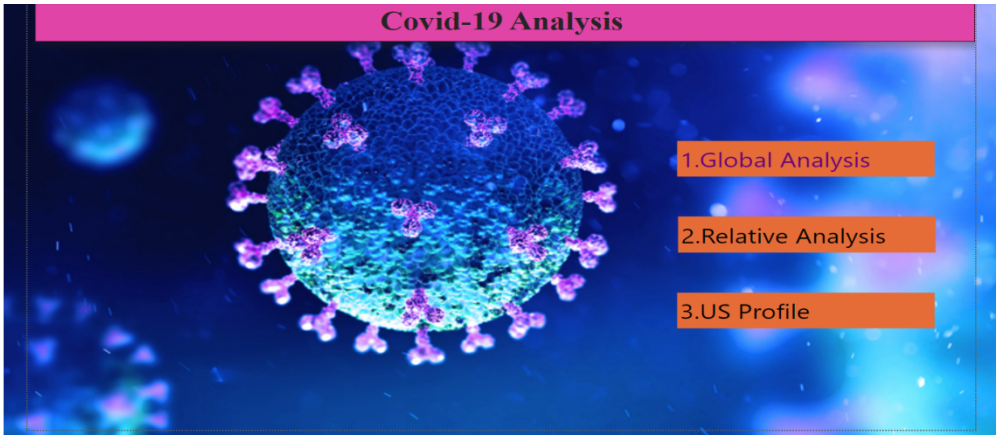
Coronavirus disease(COVID-19) is an infectious disease caused by SARS-Cov2 virus. COVID-19 affects people in different ways. Covid-19 hit globally very badly. Many people have lost their lives and impacted all the businesses and economies. In this project we are analyzing the covid active cases, confirmed cases, deaths and recovery rate globally. We have used Power Bi Desktop for visualizations, power query for transformations, Power Bi service for publishing the reports.

The dataset is adapted from :

1. https://raw.githubusercontent.com/CSSEGISandData/COVID-19/master/csse_covid_19_data/csse_covid_19_time_series/time_series_covid19_confirmed_global.csv
2. https://raw.githubusercontent.com/CSSEGISandData/COVID-19/master/csse_covid_19_data/csse_covid_19_time_series/time_series_covid19_deaths_global.csv
3. https://raw.githubusercontent.com/CSSEGISandData/COVID-19/master/csse_covid_19_data/csse_covid_19_time_series/time_series_covid19_recovered_global.csv

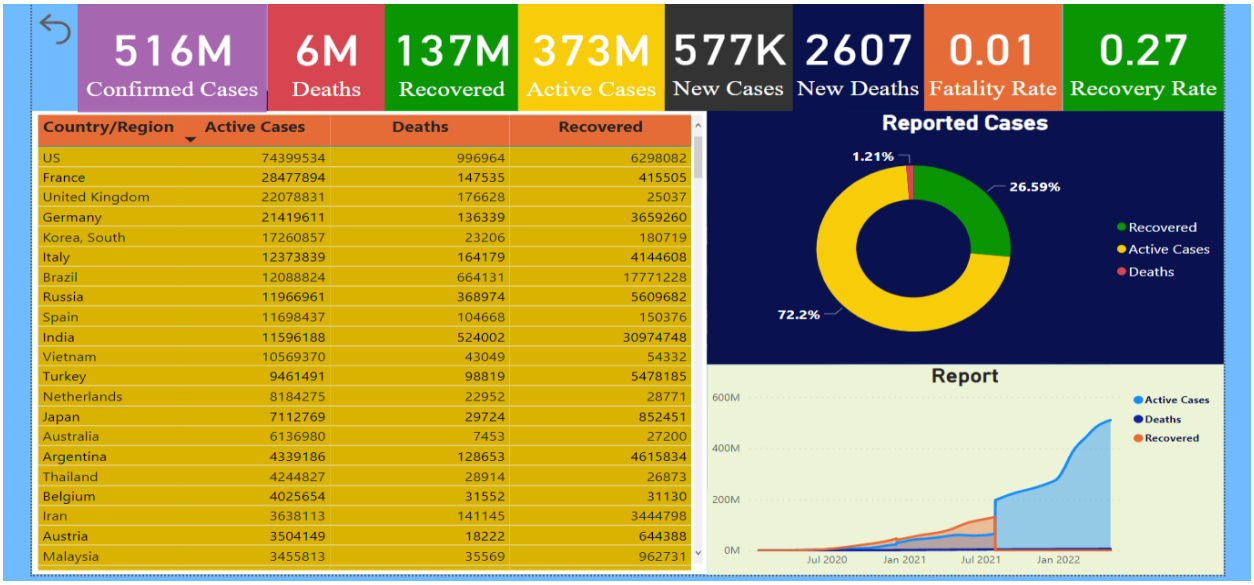
Home Page:

In the home page of our project, we have given the navigation tabs for the Global Analysis, Relative analysis, US profile.



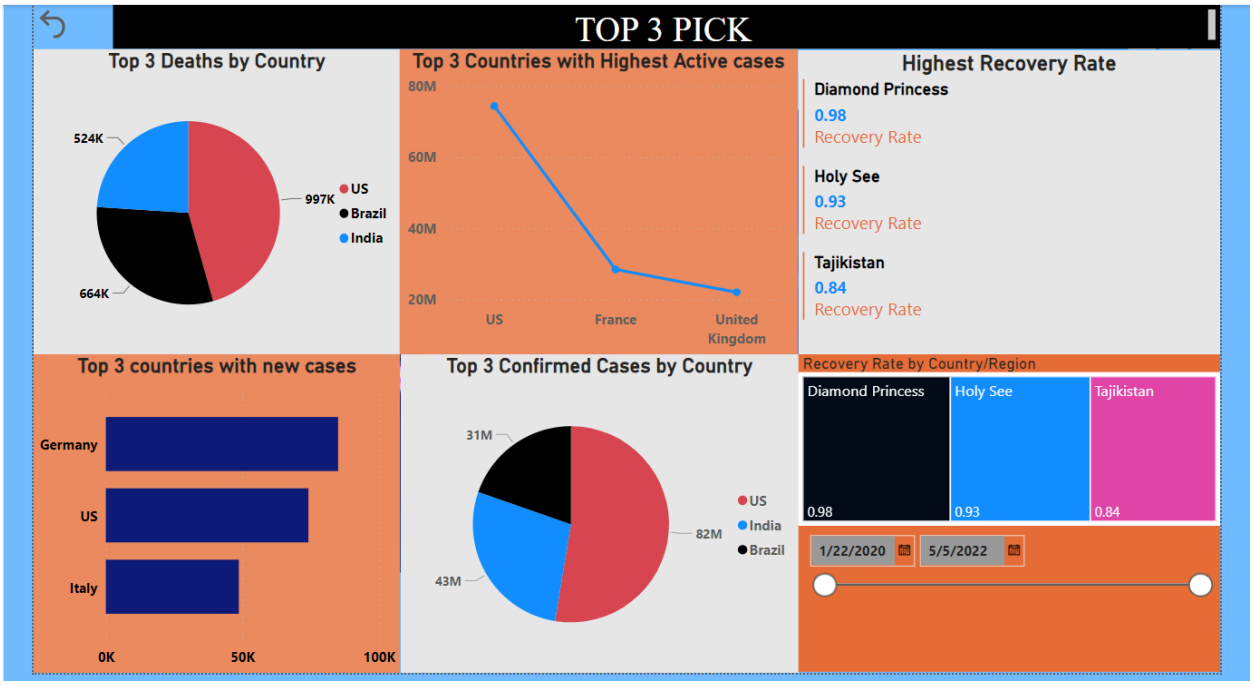
Global Analysis:

- This page shows the total number of confirmed cases, deaths, recovered from the covid, active cases, new cases, new deaths, fatality rate and recovery rate globally.
- Pie chart shows the records of recovered cases, active cases, and deaths.
- The chart below shows the details of covid cases country wise. USA tops the list with the most number of active cases.
- The graph shows the number of cases from Jul 2020 to Jan 2022.



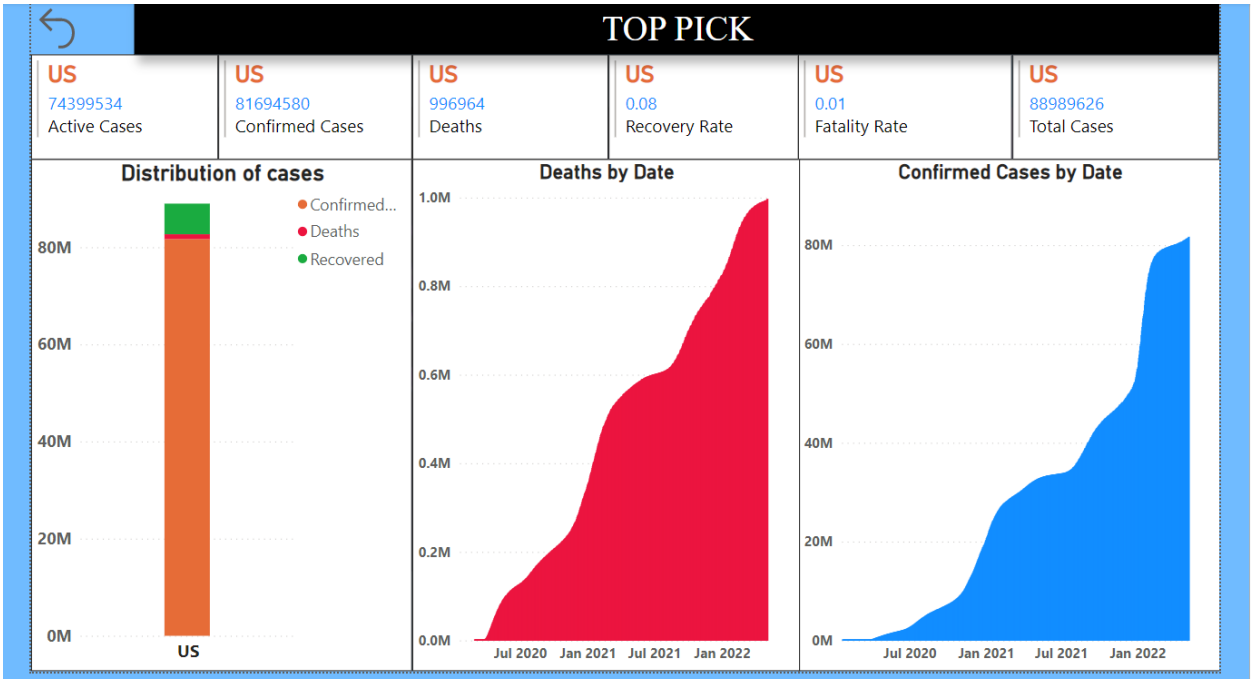
Relative Analysis:

- Pie chart shows the information of top 3 countries with most number of deaths. USA, Brazil and India are in the list of top 3.
- Line chart shows the top 3 countries with most number of active covid cases. USA, France and UK are in the top 3.
- Multi row card shows the highest recovery rate countries records.
- Clustered bar chart shows the Top 3 countries with new cases.
- Pie chart shows the information about top 3 confirmed cases by country.
- Tree map shows the recovery rate by country/region records.
- Slicer is used to vary the dates from the time period of Jan 2020 to the present date.



USA profile:

- This page shows the information of the USA covid-19 data like active cases, confirmed cases, deaths, recovery rate, fatality rate, total number of cases.
- Line and stacked column chart shows the distribution of cases.
- Custom column chart shows the deaths rate due to covid till date.
- The other chart shows the confirmed cases from the start of the pandemic to the present date.



Measures:

1. Total cases – this measure will show the total number of COVID cases
2. Confirmed cases – this measure calculates total cases where status is equal to confirm.
3. Deaths – this measure calculates the total cases where status is equal to Deaths
4. Recovered cases – this measure calculates the total cases where status is equal to recovered.
5. Active cases – this measure will show the total active cases.
6. New cases – this measure shows the new cases of covid-19.
7. Recovery Rate – this measure gives you the recovery Rate
8. ConfirmedCases Rank – this measure is used to identify top 3 confirmed cases by country .
9. Top 3 Confirmed cases – this measure will show you the top three confirmed cases.
10. Death Rank – this measure is used to identify top 3 deaths by country.
11. Top 3 Deaths – this measure will show you the top 3 deaths.
12. New deaths – this measure calculates the new deaths due to covid-19.
13. Fatality Rate -this measure is calculated by dividing the no of deaths by no of confirmed cases.

Calculated Columns:

1. Year – this column is calculated from the Date column from Covid-19-Data table.

```
year = FORMAT('Covid-19-Data'[Date],"YYYY")
```

2. Cumulative value – this column gives us the total cumulative values till date.

```
cumulative value = CALCULATE(SUM('Covid-19-Data'[Value]),FILTER(ALLSELECTED('Covid-19-Data'[Date]),ISONORAFTER('Covid-19-Data'[Date],MIN('Covid-19-Data'[Date]),ASC)))
```

3. Week Day – It can be used to see which weekday has the most number of cases by visualization.

```
Week Day = WEEKDAY('Covid-19-Data'[Date],1)
```