

Presented by Abisola Onileimo

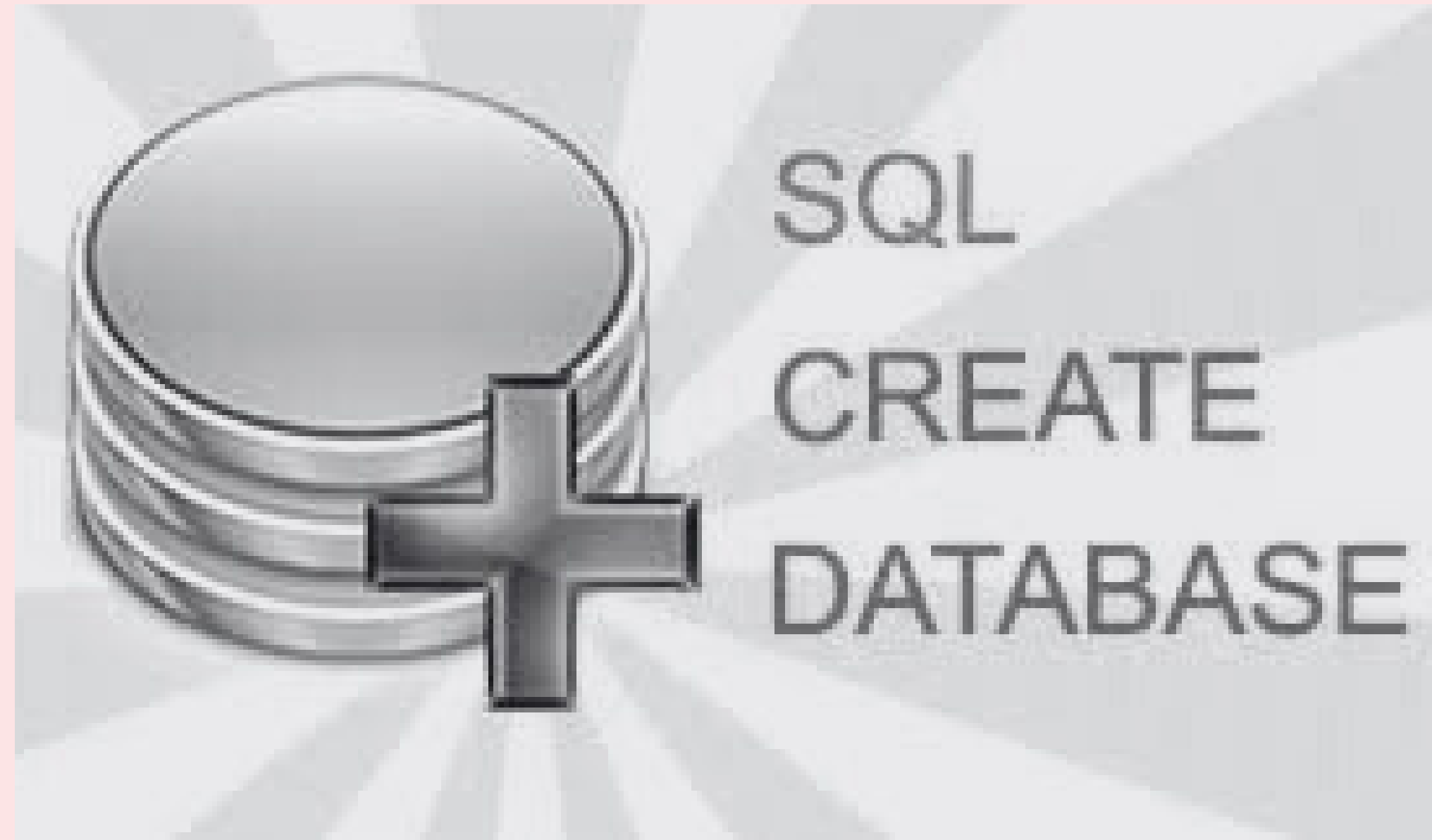
COVID-19

Database Design & Analysis



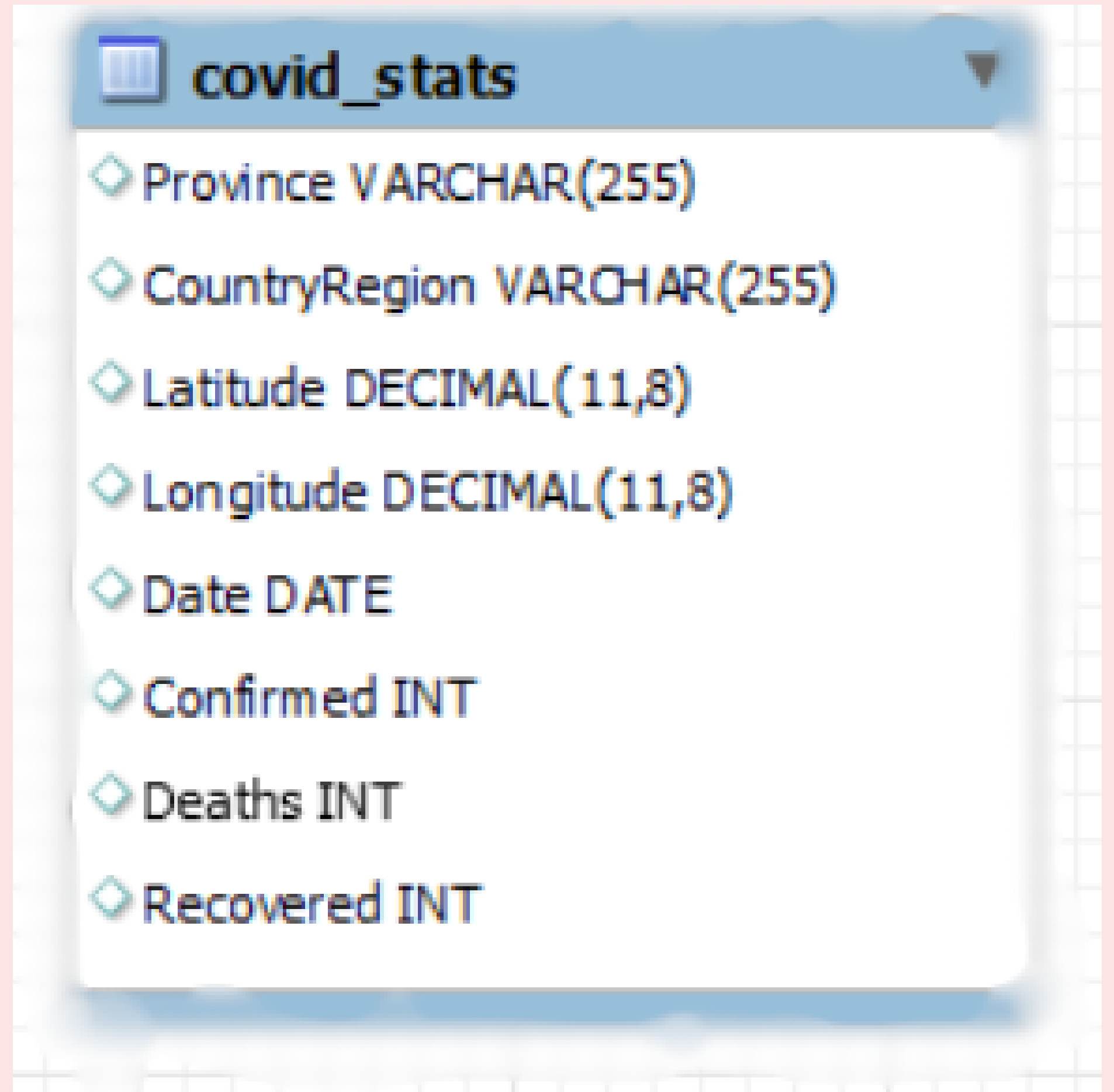
Database Design

The Covid_19 dataset was given in a csv format. A table needed to be created to load the data into a database



EER DIAGRAM

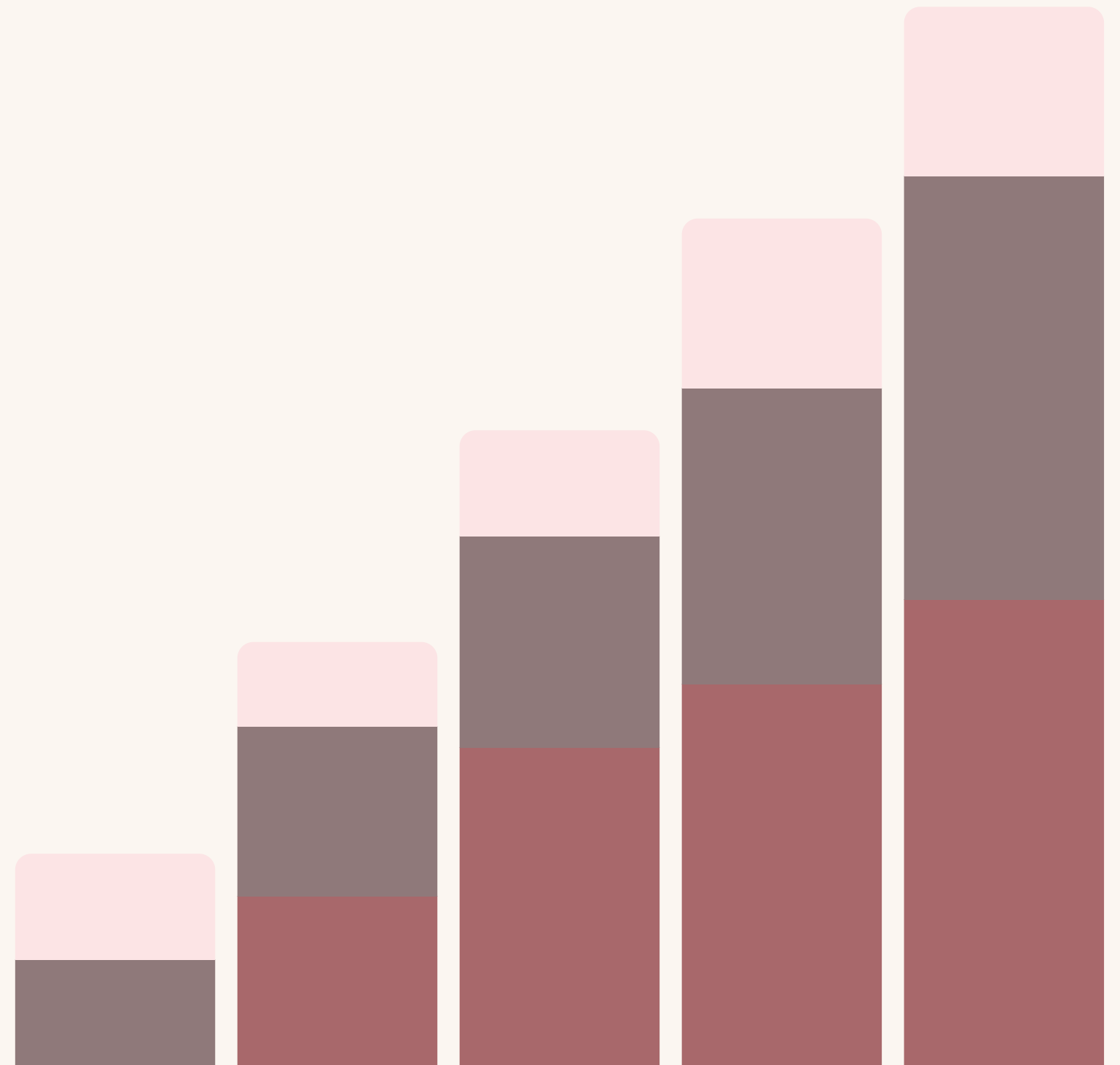
For Database design



Methodology used in the analysis

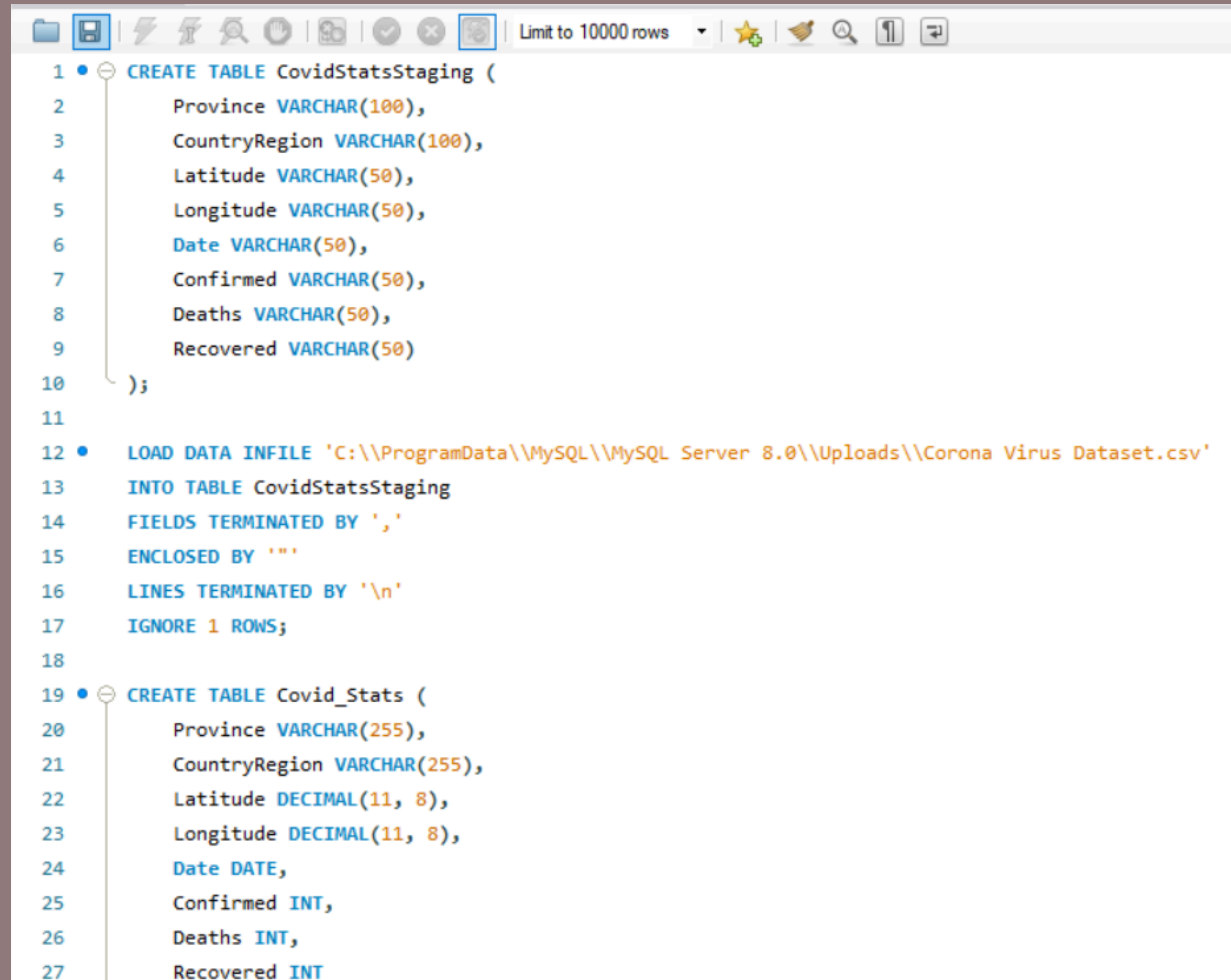
- SQL
- POWERBI

To analyze the data and provide insights to the covid-19 period



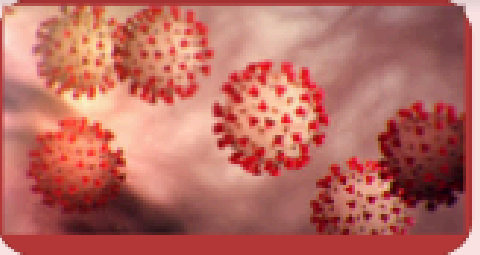
Methods

A table was created using MySQL to load the csv format dataset as a database



```
1 CREATE TABLE CovidStatsStaging (  
2     Province VARCHAR(100),  
3     CountryRegion VARCHAR(100),  
4     Latitude VARCHAR(50),  
5     Longitude VARCHAR(50),  
6     Date VARCHAR(50),  
7     Confirmed VARCHAR(50),  
8     Deaths VARCHAR(50),  
9     Recovered VARCHAR(50)  
10 );  
11  
12 LOAD DATA INFILE 'C:\\ProgramData\\MySQL\\MySQL Server 8.0\\Uploads\\Corona Virus Dataset.csv'  
13 INTO TABLE CovidStatsStaging  
14 FIELDS TERMINATED BY ','  
15 ENCLOSED BY ''''  
16 LINES TERMINATED BY '\\n'  
17 IGNORE 1 ROWS;  
18  
19 CREATE TABLE Covid_Stats (  
20     Province VARCHAR(255),  
21     CountryRegion VARCHAR(255),  
22     Latitude DECIMAL(11, 8),  
23     Longitude DECIMAL(11, 8),  
24     Date DATE,  
25     Confirmed INT,  
26     Deaths INT,  
27     Recovered INT
```

Analysis



COVID-19 ANALYSIS

Start Date

Thursday, January
02, 2020

Total Deaths

4M

Total Confirmed

169M

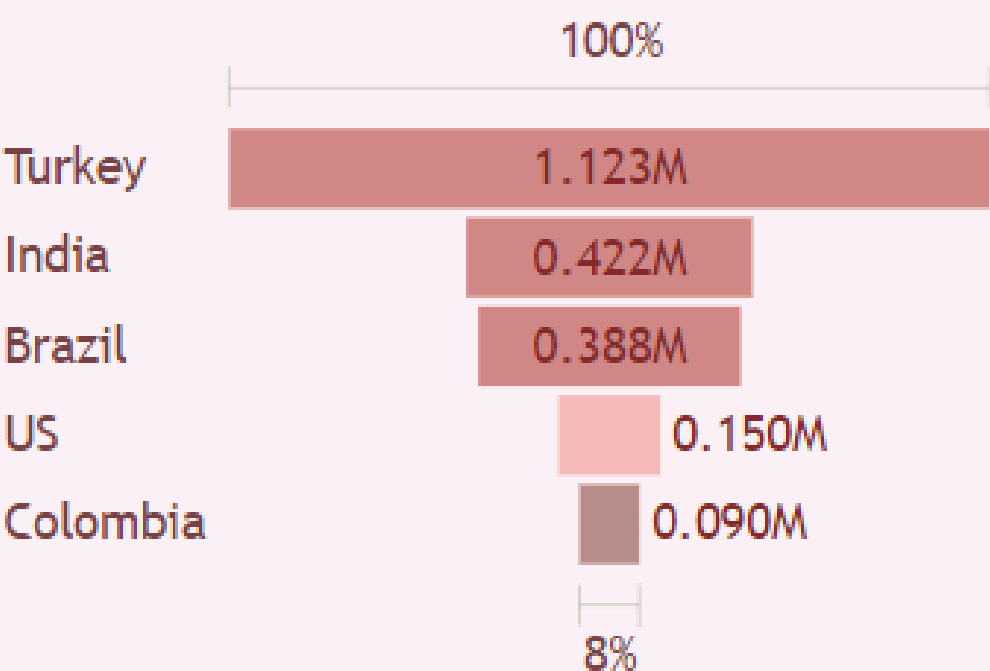
Total Recovered

113M

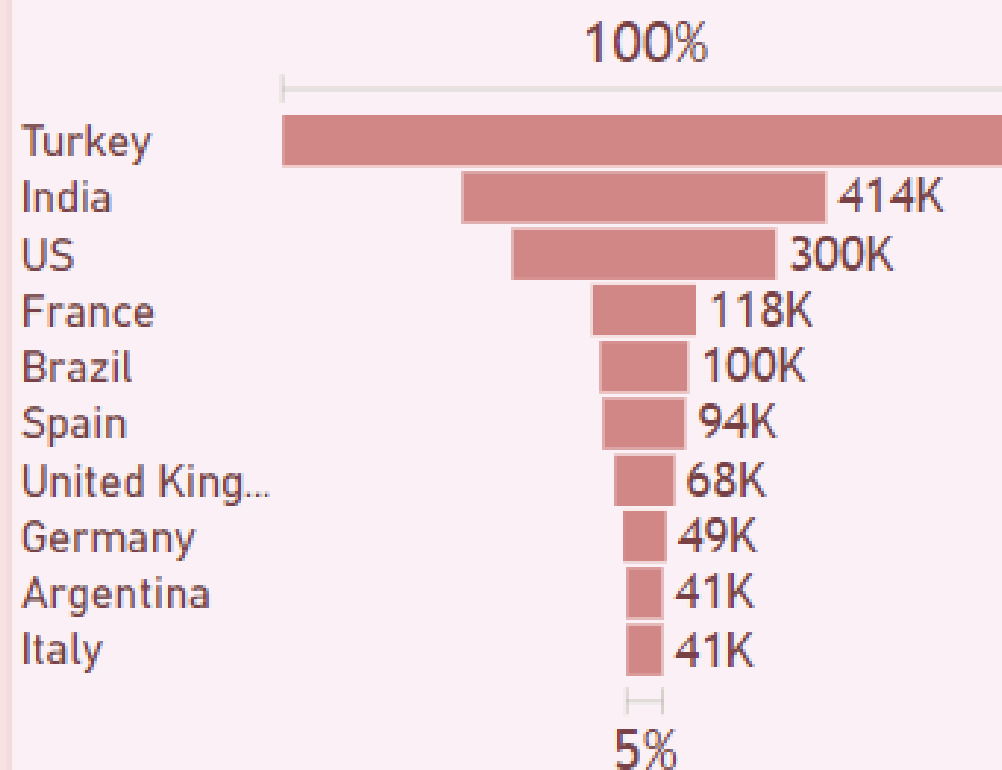
End Date

Monday, December
06, 2021

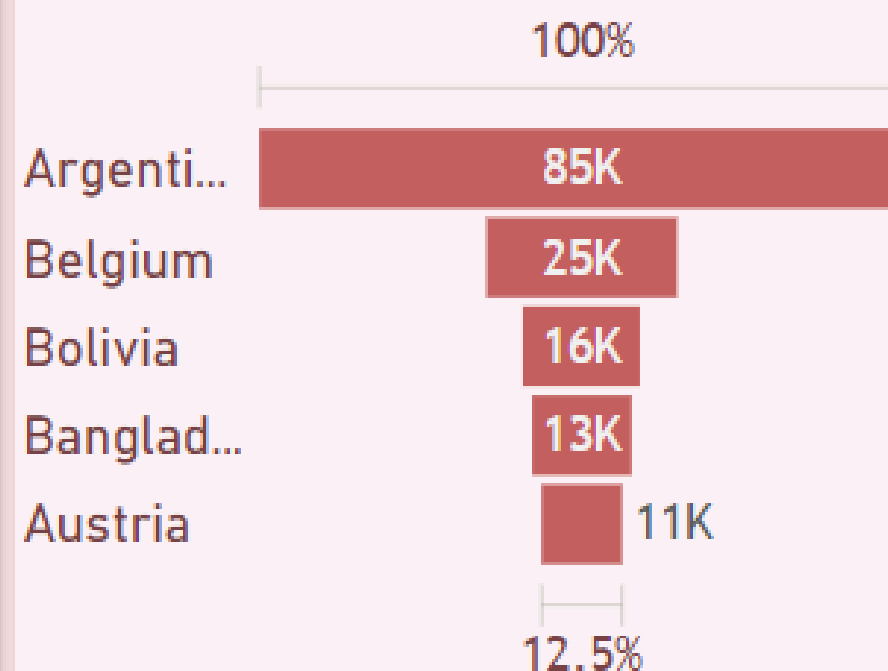
Top 5 Recovered Countries



Highest Confirmed by Country



Highest Deaths by Country



Countries with the Lowest Deaths

Afghanistan
0

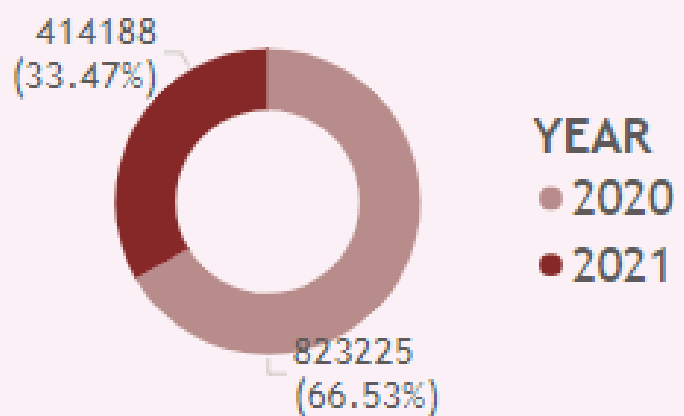
Algeria
0

Argentina
0

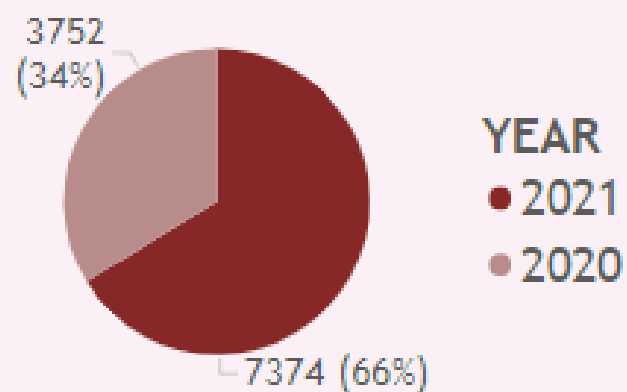
Australia
0

Austria
0

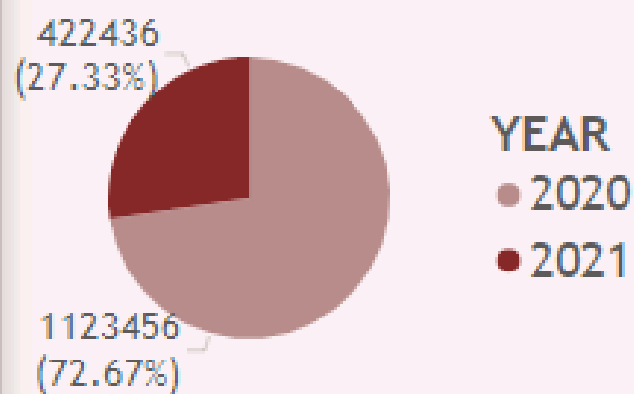
Max Confirmed per year



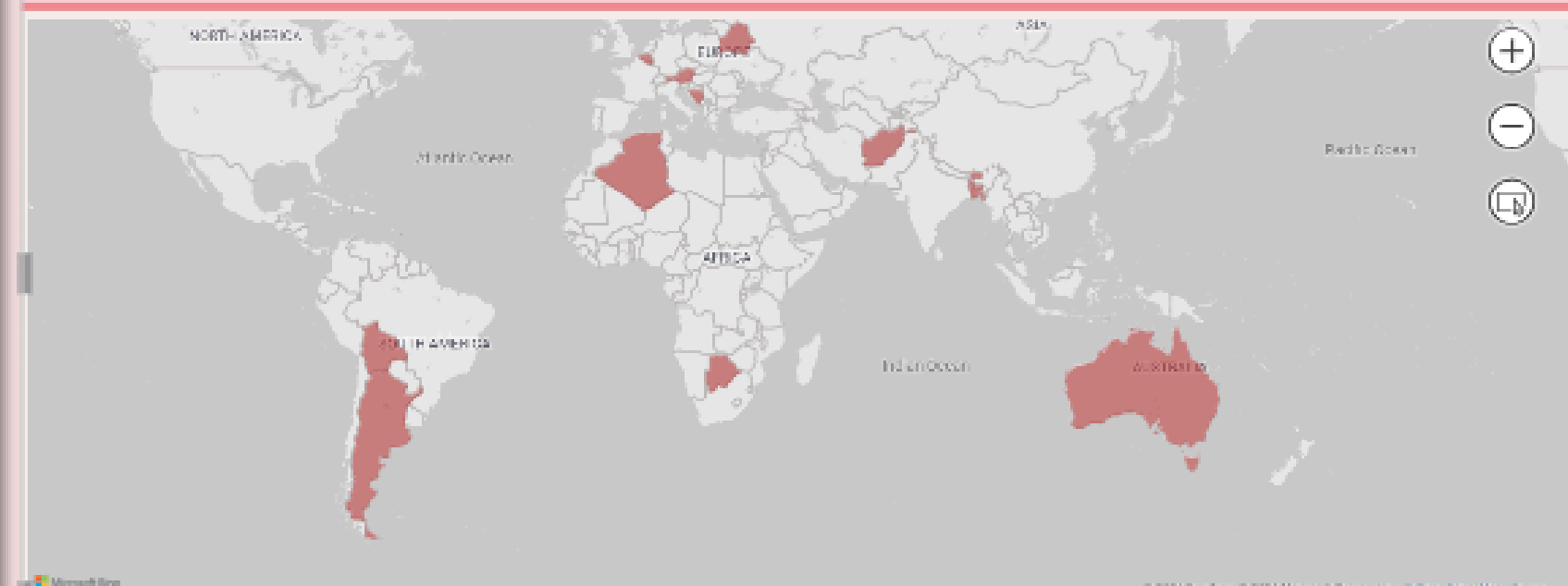
Max Deaths per year



Max Recovered per year



Deaths by Country/Region



Insights generated:

Confirmed Cases

Total: 169,065,144

Average: 2,156.8283

Variance: 157,288,925.07796532

Stdev: 12,541.488152446875

Total Confirmed Cases: This is the total number of people who were diagnosed with COVID-19 worldwide.

The significant variance and standard deviation reflect a highly variable pattern in daily new cases, indicating that the number of new infections fluctuated greatly over time.

Insights generated:

Deaths

Total: 3,647,894

Average: 46.5376

Variance: 45,892.01885355753

Stdev: 214.22422564583476

The total number of deaths reveals a considerable loss of life due to the virus.

The substantial variance and standard deviation indicate that the daily death toll varied widely, with some days experiencing spikes in fatalities.

Recovered Cases

Total: 113,089,548

Average: 1,442.7264

Variance: 107,029,523.26229636

Stdev: 10,345.507395110999

The total number of recoveries is high, indicating many individuals have successfully recovered from the virus.

On average, approximately 1,443 recoveries were recorded daily. The high variance and standard deviation show substantial daily variability in recovery number

In summary, these numbers shows us the impact of the COVID-19 on a global scale, showing how many people got infected, recovered, and sadly, died from the virus. They also show us how much these numbers can varied from day to day, giving us insights into the unpredictable nature of the pandemic.