

Summary:

The project deals with the analysis of information about the corona virus in the world,

Data analysis is based on information from Johns Hopkins University,

The data were taken from:

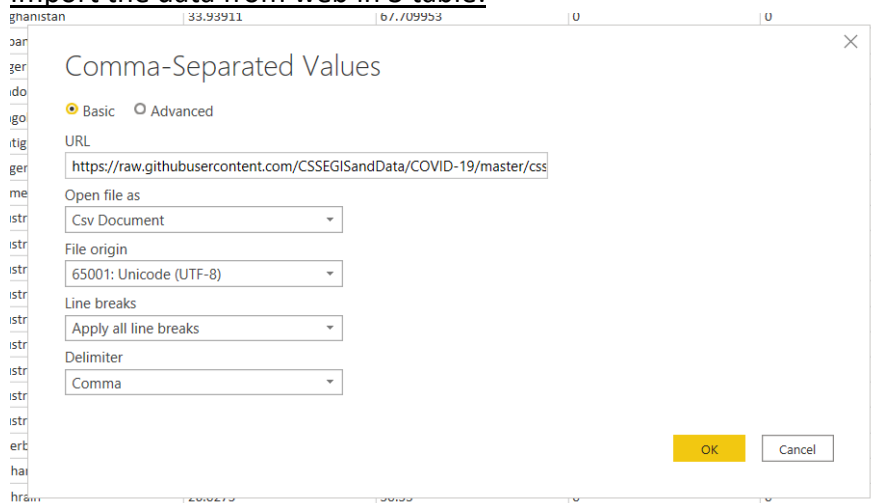
https://github.com/CSSEGISandData/COVID-19/tree/master/csse_covid_19_data/csse_covid_19_time_series

Transformation of the data was performed in 2 different forms on the same information:

- Power bi
- Ssis

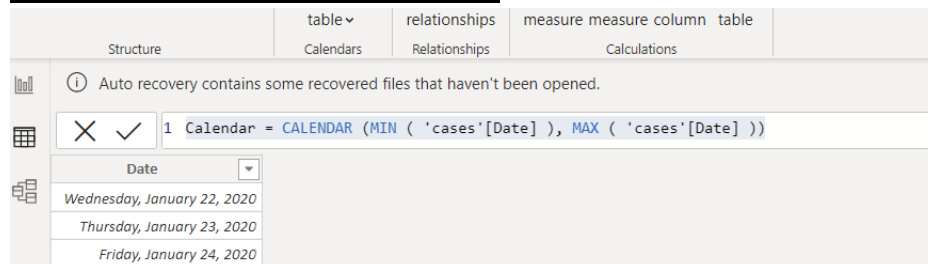
Details of the project in power bi:

- **Import the data from web in 3 table:**



- **The three tables perform a transformation of**
 - Unpivoted other columns in the table
 - Then merge three tables to a new table

- **Another table of date that I build like:**



- **The measure built for data analysis are:**

- Daily_New_Cases

```

1 Daily_New_Cases =
2 VAR current_day = [Total_Confirmed]
3 VAR prev_day =
4 CALCULATE (
5     [Total_Confirmed],
6     DATEADD ( 'Calendar'[Date], -1, DAY )
7 )
8 RETURN
9 IF ( ISBLANK ( prev_day ), blank(), current_day - prev_day )

```

- Total_Confirmed

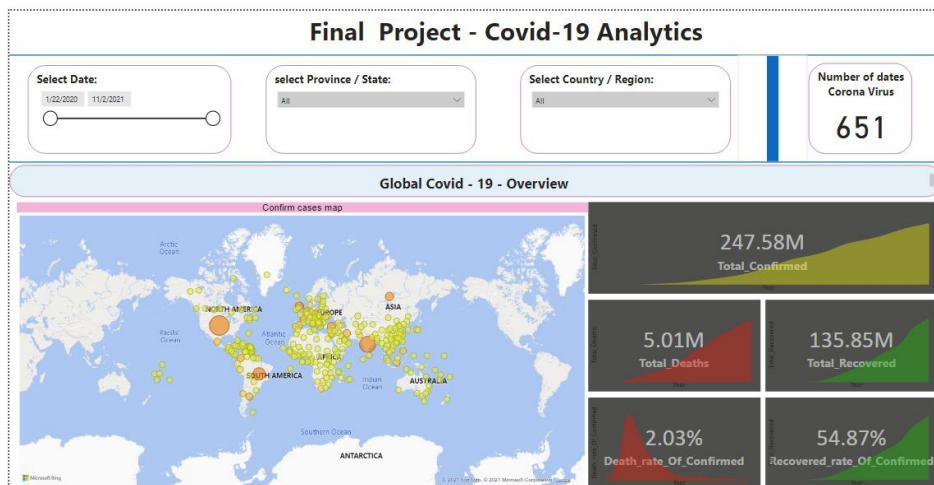
```

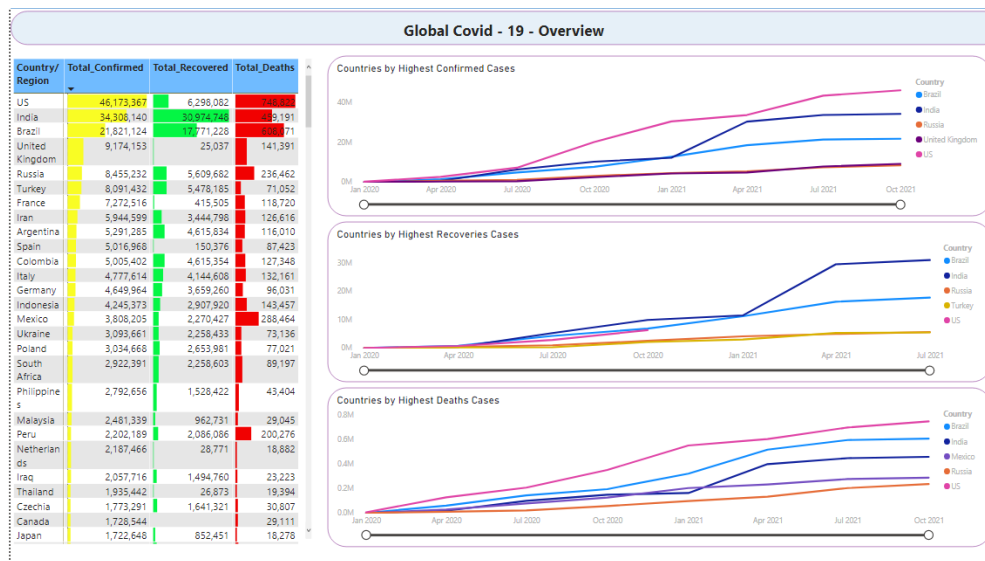
1 Total_Confirmed =
2 VAR sum_confirmed =
3 SUMX( VALUES('cases'[Country/Region]),
4 SUMX( VALUES('cases'[Province/State]),
5 CALCULATE(MAX('cases'[Confirmed]))
6 )
7 )
8 RETURN
9 IF (sum_confirmed = 0, BLANK(), sum_confirmed )

```

- Total_Deaths
- Total_Recovered
- Recovered_rate_Of_Confirmed
- Death_rate_Of_Confirmed

- After arranging the data and building the measure the reports built are for a global overview by country on:



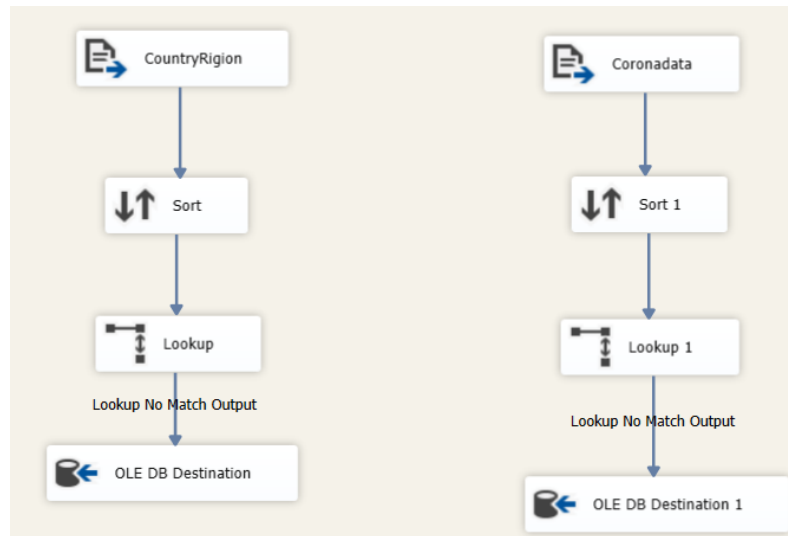


Details of the project in ssis:

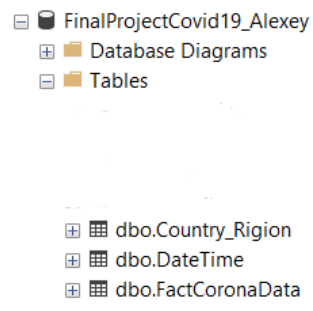
- In ssis folder you can find file:
 - Python for Treatment the data.
 - Csv data file with result after python.
 - Flow chart of the ssis.
- Steps in project execution:
 - Script Import and clean and join 3 table data with python and then pool the data to data flow task



- In the data flow you can find Basic construction of a data warehouse with 2 tables can be found by checking every time new information arrives if it already exists or does not exist in the table:



- In the final step can be found the new db with the table:



Thank,