



**Team
B**

Data Analysis Project

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Points:

- Data Cleaning
- Data visualizations
- Methods and roles

Data Cleaning

0s



```
import pandas as pd
df = pd.read_csv('/content/covid19 (1).csv')
df.head()
```

	Unnamed: 0	Country,Other	TotalCases	NewCases	TotalDeaths
0	0	USA	29383324.0	12619.0	529515
1	1	India	11156250.0	16927.0	157471
2	2	Brazil	10647845.0	NaN	257562
3	3	Russia	4278750.0	10535.0	87348
4	4	UK	4188400.0	NaN	123296



```
df.tail(10)
```

	Unnamed: 0	Country,Other	TotalCases	NewCases	TotalDeaths
219	219	Vanuatu	1.0	NaN	
220	220	China	89933.0	10.0	4636
221	221	33720845	23073.0	765344.0	1378
222	222	25223160	72549.0	400595.0	742
223	223	18134879	6577.0	470591.0	128
224	224	34442286	119818.0	822446.0	2724
225	225	3949024	5653.0	104626.0	64
226	226	51331	16.0	1091.0	NaN
227	227	721	NaN	15.0	NaN
228	228	115522246	227686.0	2564708.0	5036



```
[ ] #removing incorrect data (data with no countries)
df2=df.drop([221,222,223,224,225,226,227,228],axis=0)
```

```
#replacing null values with 0
df2=df2.fillna(0)
```

```
[ ] #set 0 in all TotalDeaths that cannot be replaced with fillna
    for i in range (220):
        if df2['TotalDeaths'][i]==' ':
            df2['TotalDeaths'][i]=0
df2
```

```
#transforming TotalDeath into float
df2['TotalDeaths']=df2['TotalDeaths'].astype('f')
df2.info()

<class 'pandas.core.frame.DataFrame'>
Int64Index: 221 entries, 0 to 220
Data columns (total 5 columns):
 #   Column          Non-Null Count  Dtype
---  -
 0   Unnamed: 0      221 non-null   int64
 1   Country,Other   221 non-null   object
 2   TotalCases      221 non-null   float64
 3   NewCases        221 non-null   float64
 4   TotalDeaths     221 non-null   float32
dtypes: float32(1), float64(2), int64(1), object(1)
memory usage: 17.6+ KB
```

```
#saving the new spreadsheet
df2.to_csv('/content/covid19_new.csv')
```



Data visualization

Columns

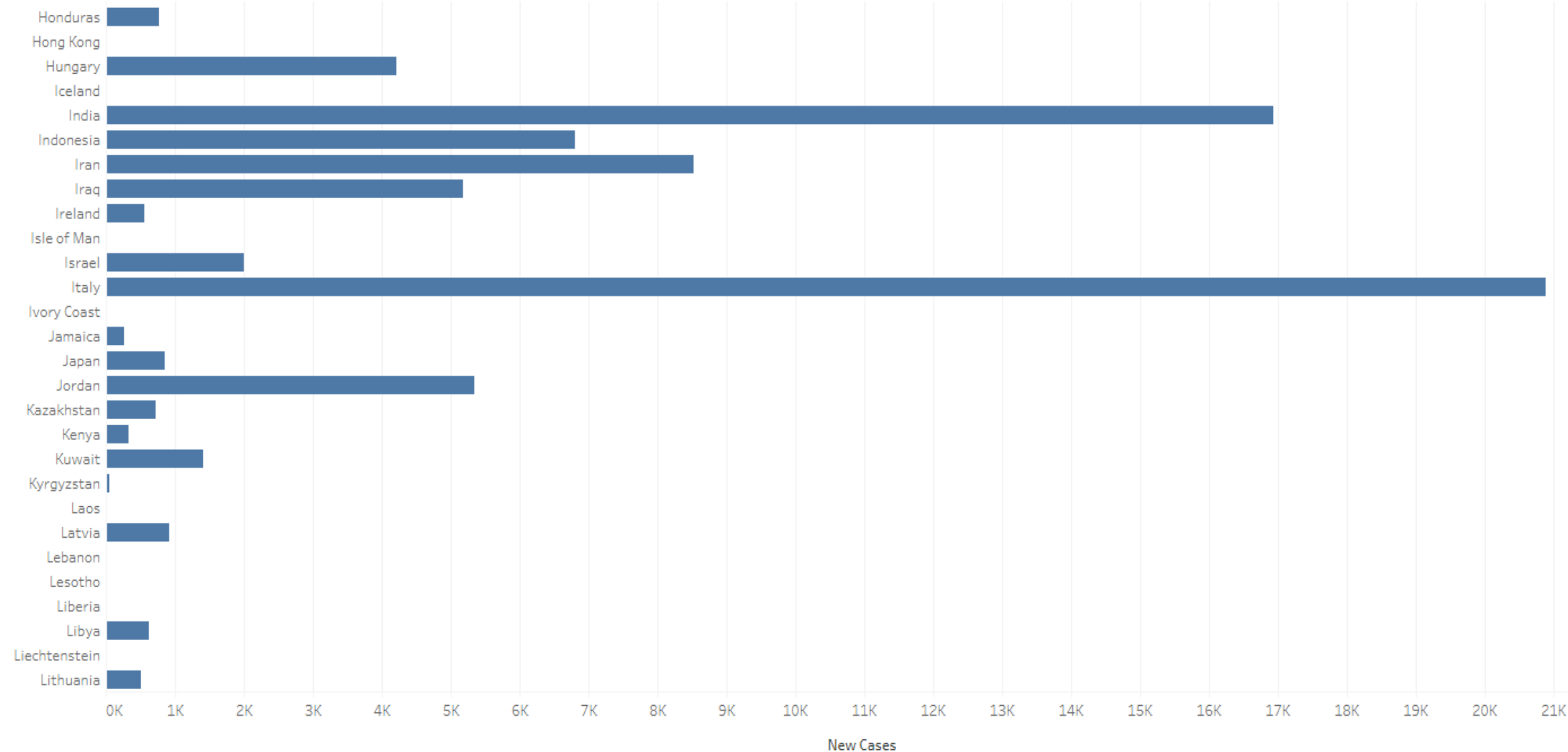
SUM(New Cases)

Rows

Country,Other

Relation between Countries and No.new cases

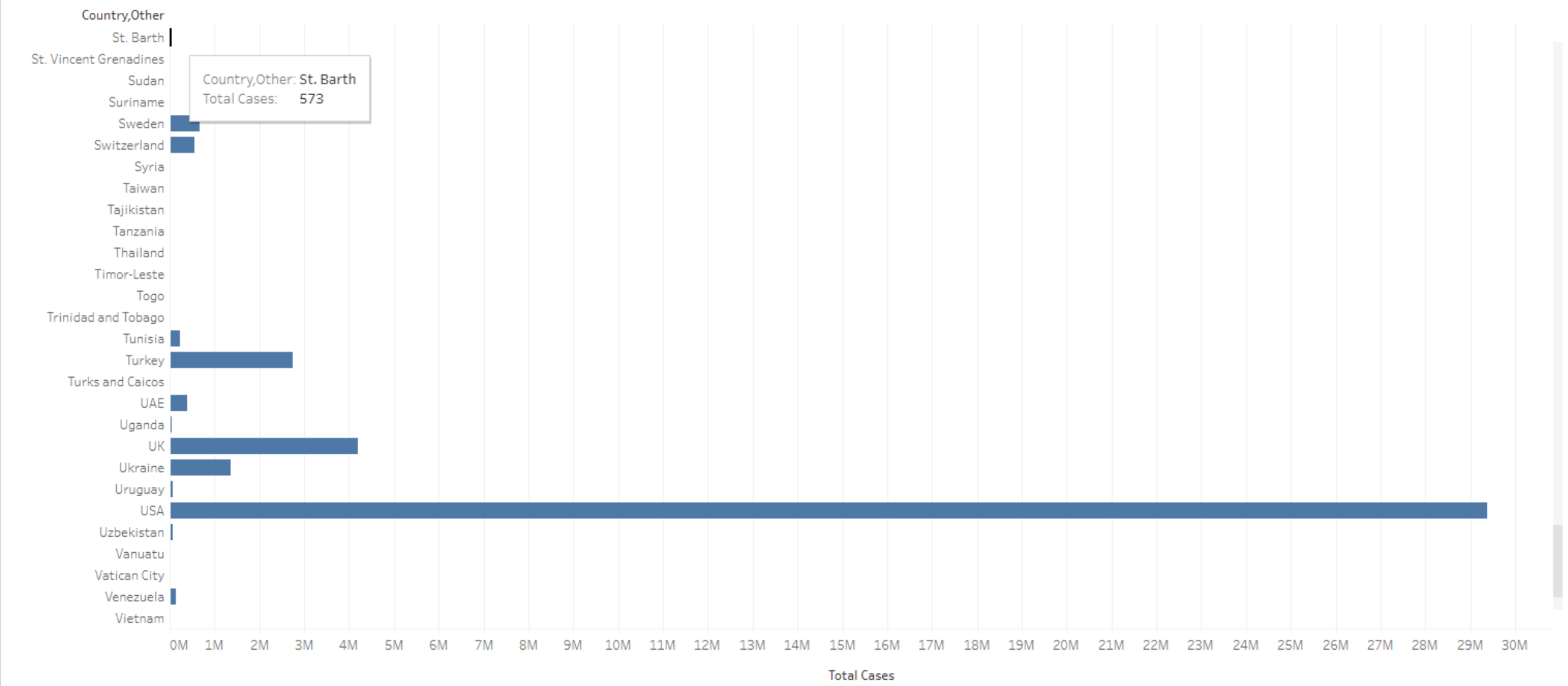
Country,Other



Columns SUM(Total Cases)

Rows Country,Other

Relation between Countries and No.total cases



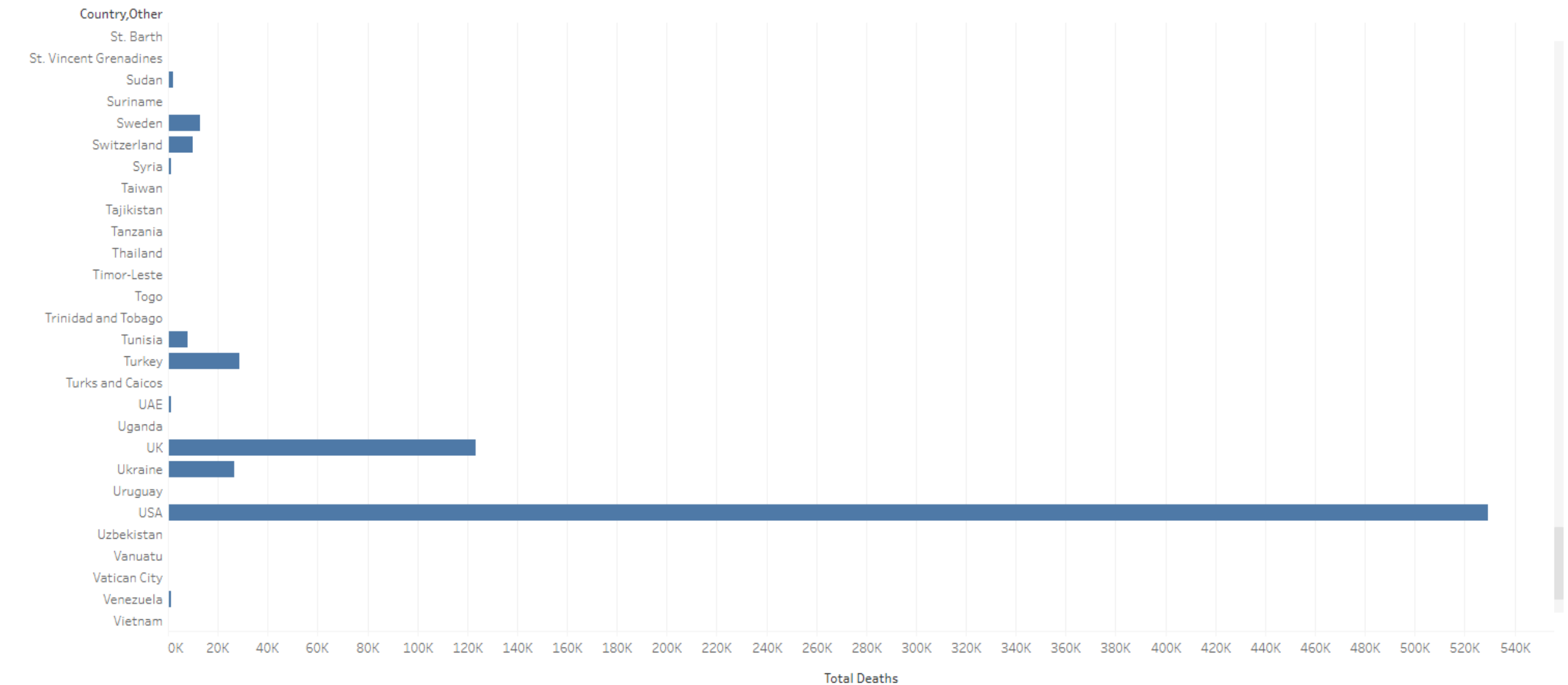
Columns

SUM(Total Deaths)

Rows

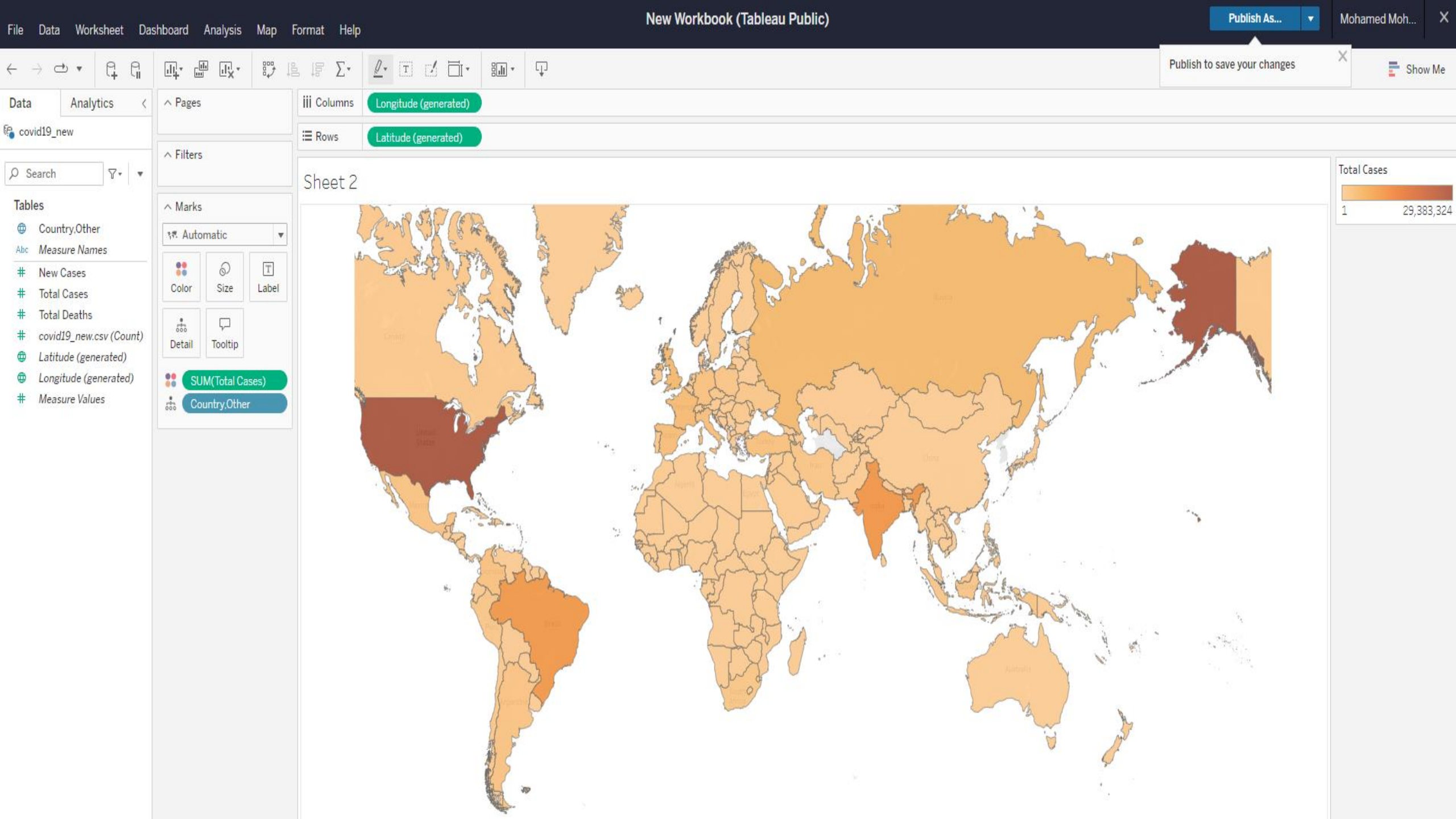
Country,Other

Relation between Countries and No.deaths



Heat map

to locate where most cases lie





^ Pages

^ Filters

^ Marks

Automatic

Color

Size

Label

Detail

Tooltip

SUM(Total Deaths)

Country,Other

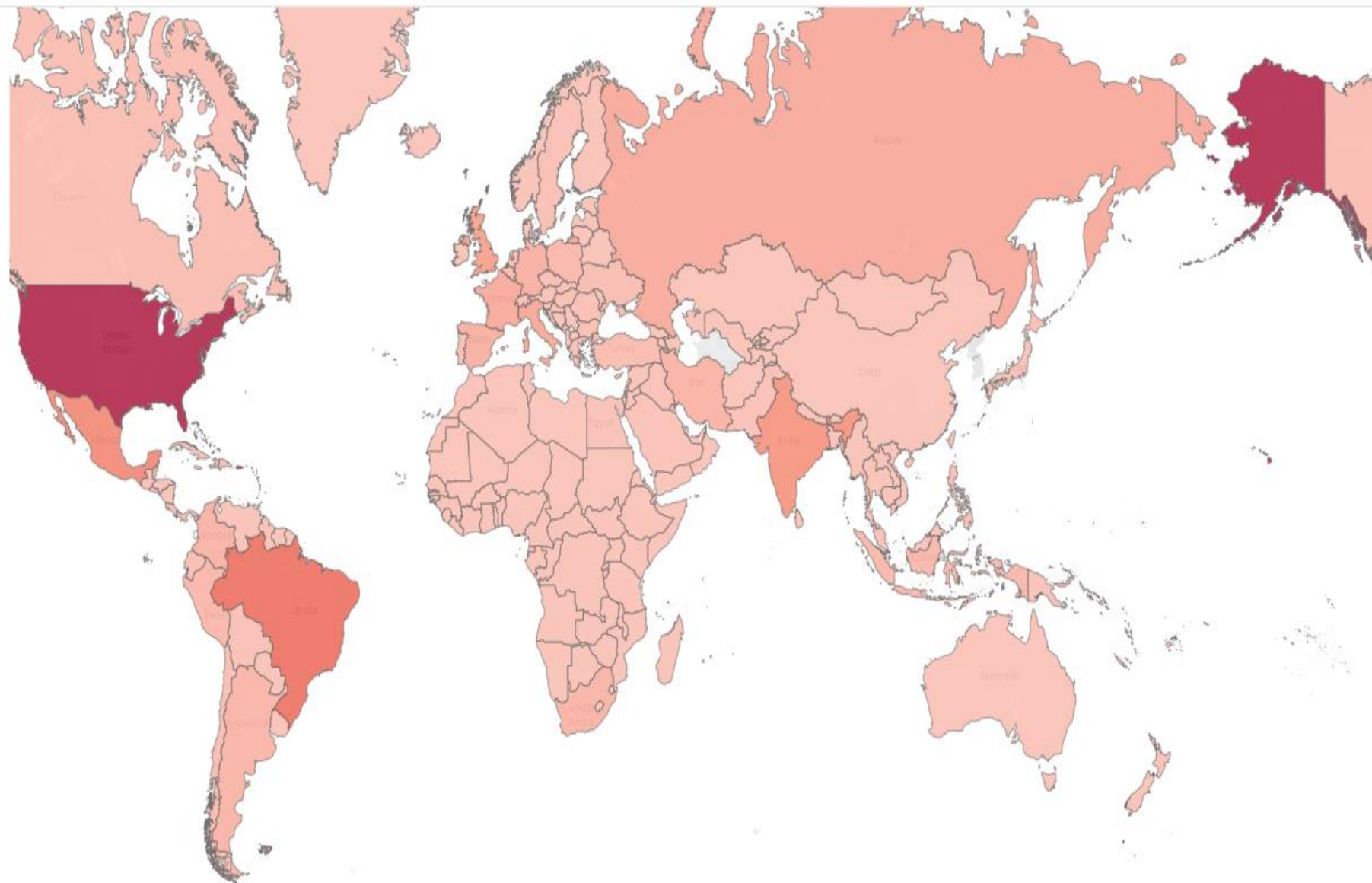
Columns

Longitude (generated)

Rows

Latitude (generated)

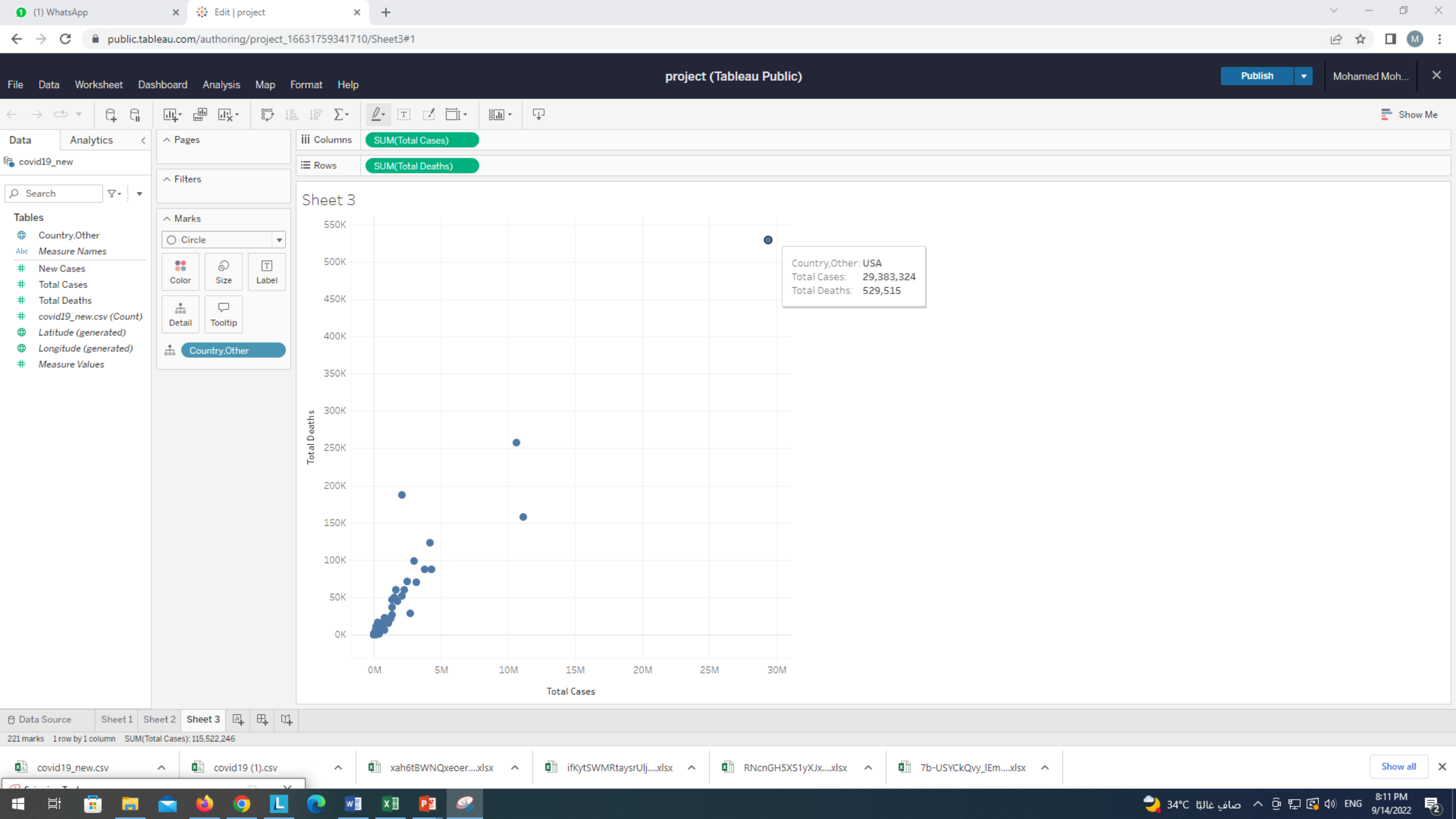
Sheet 2



Total Deaths



Finally , a scatter plotting for
the cases with respect to no.
deaths



Methods and Roles

METHODS:

FR

- 1- SPREADSHEETS (EXCEL)
- 2- GOOGLE COLAB (TO RUN PYTHON CODES TO CLEAN THE DATA)
- 3- TABLEAU TOOL (FOR VISUALIZATIONS)

ROLES:

CLEANING PROCESS:

- 1- ABDELRAHMAN RABIE
- 2- ABDELRAHMAN OMAR

VIZUALIZATIONS USING TABLEAU

- 1- MOHAMED MOHSEN
- 2- MENA HASSAN

PRESENTATION AND RESEARCH (FOR SUITABLE TOOLS AND FUNCTIONS)

ALYAA HASSAN