Covid-19 Panademic

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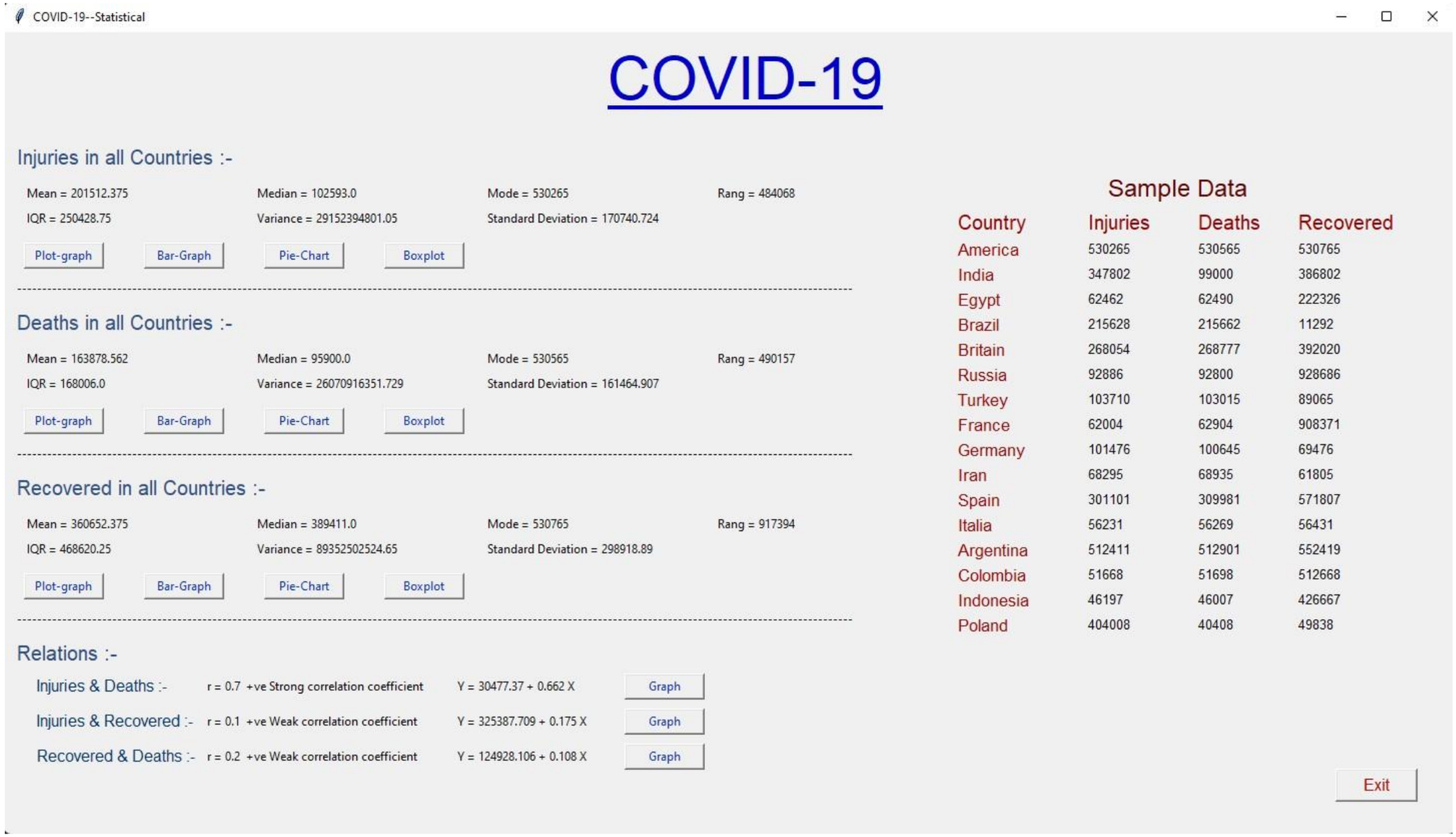
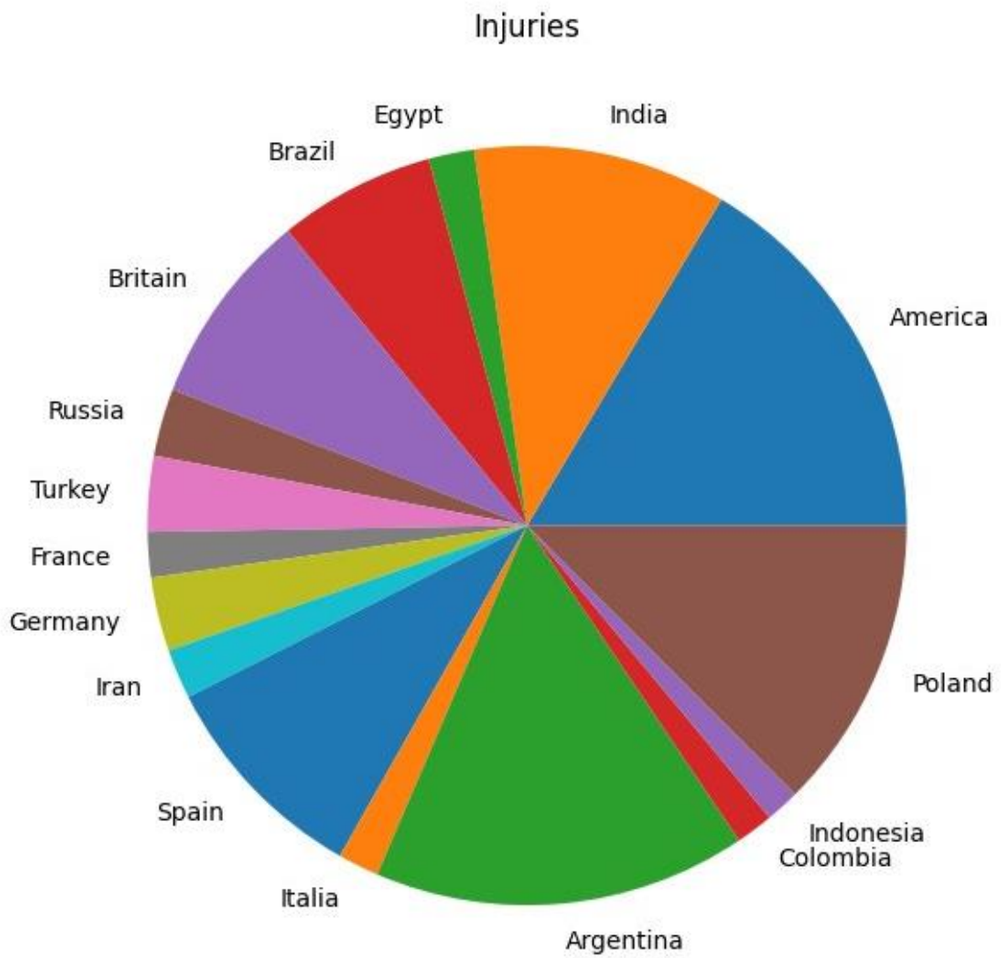
Project Main Idea and goals

The novel coronavirus (COVID-19), which was originally detected at the end of 2019, has impacted almost every aspect of life as we know it, and that’s what makes it the most important topic in the topics which we are interested in studying their statistics. Thus, our project which is developed as GUI form using python language focuses on studying the impact of the disease on a few nations which are used as a sample to represent the impact of Covid-19 on the globe.

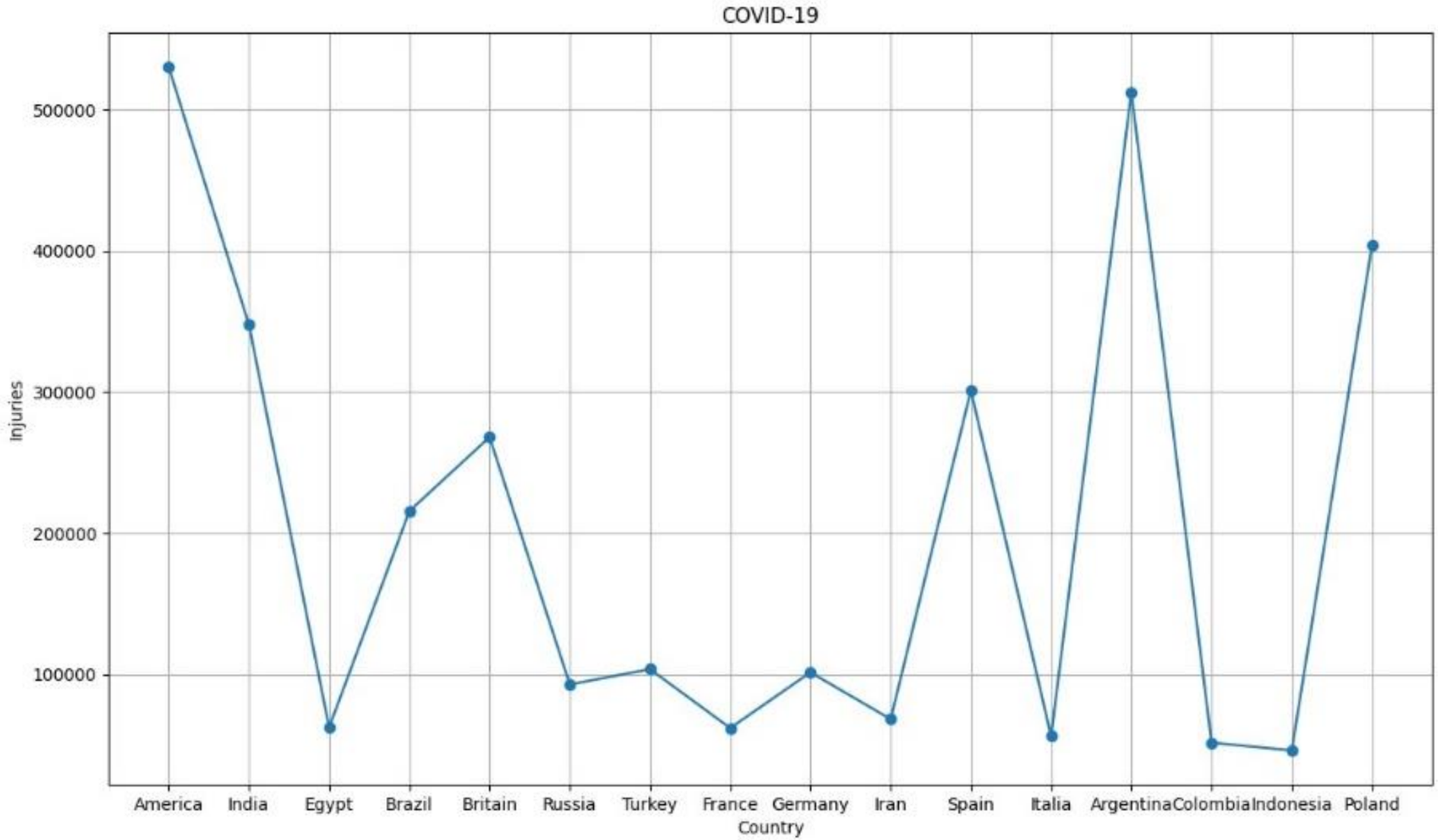
Project Interface



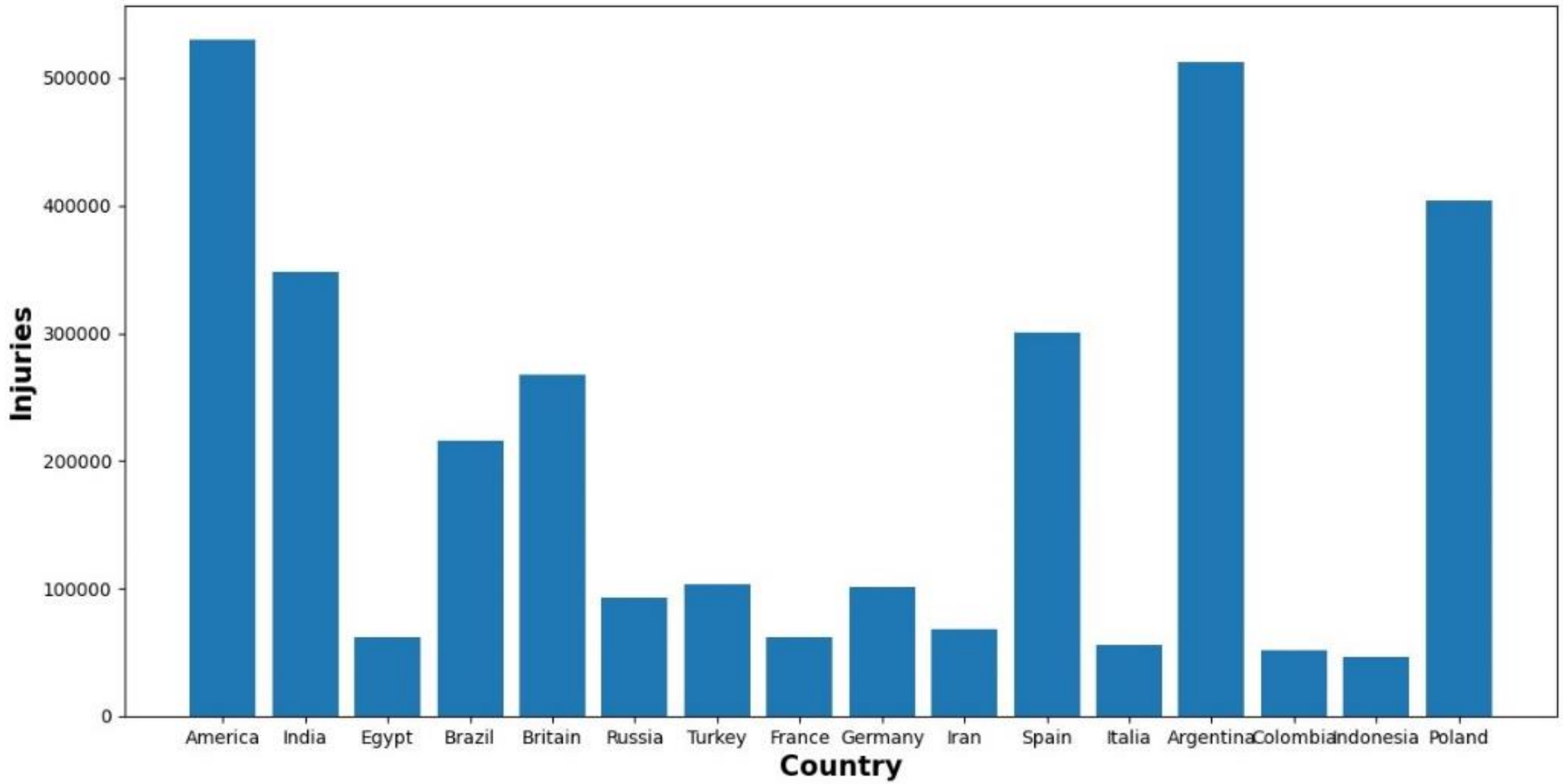
Research summary of injuries



Graph 1

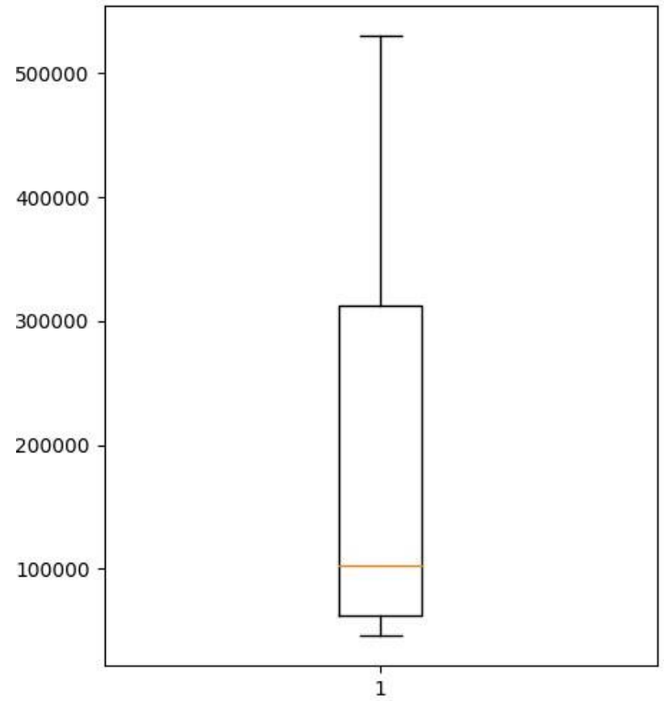

COVID-19
Injuries
500000
400000
300000
200000
100000
America
India
Egypt
Brazil
Britain
Russia
Turkey
France
Germany
Iran
Spain
Italia
Argentina
Colombia
Indonesia
Poland
Country

Graph 2


Injuries
500000
400000
300000
200000
100000
0
America
India
Egypt
Brazil
Britain
Russia
Turkey
France
Germany
Iran
Spain
Italia
Argentina
Colombia
Indonesia
Poland
Country

Graph 3

From our studies and from the previous shown graphs which represent the injuries in each sample country, we were able to calculate the following descriptive statistics:



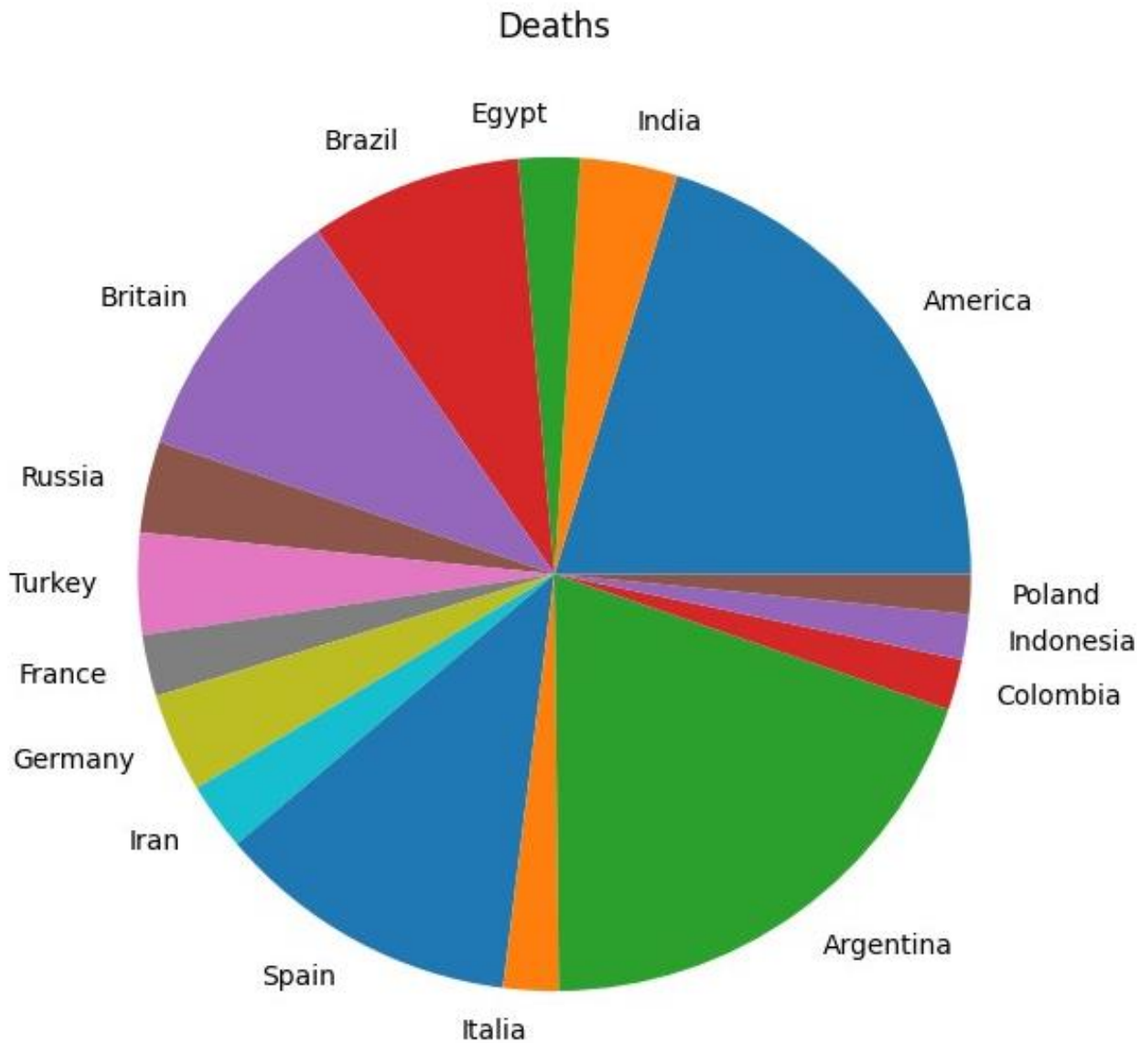
Graph 4

Injuries in all Countries :-

Mean = 201512.375	Median = 102593.0	Mode = 530265	Rang = 484068
IQR = 250428.75	Variance = 29152394801.05	Standard Deviation = 170740.724	

Fig.1

Research summary of death



Graph 5

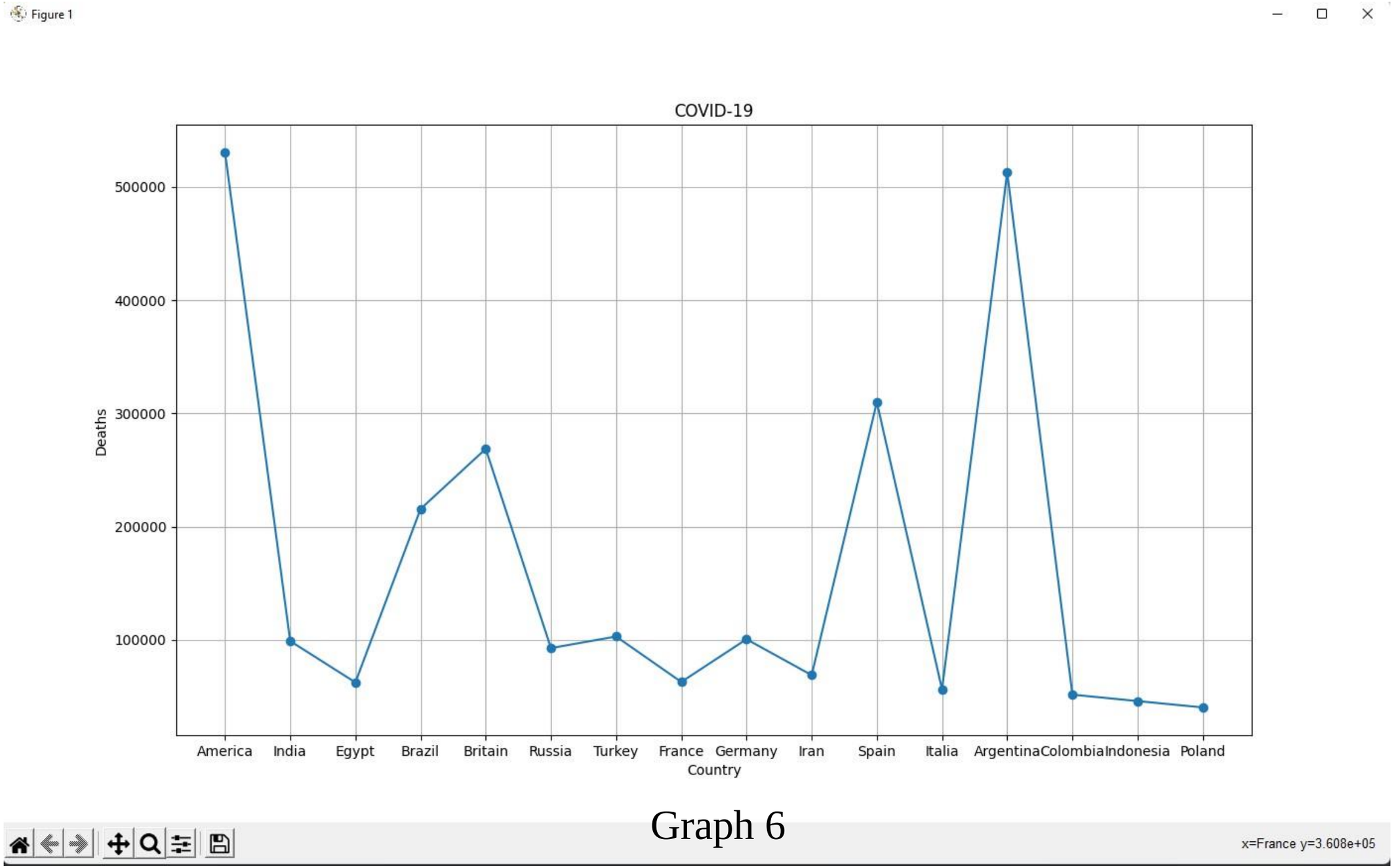


Figure 1
COVID-19
Deaths
500000
400000
300000
200000
100000
America
India
Egypt
Brazil
Britain
Russia
Turkey
France
Germany
Iran
Spain
Italia
Argentina
Colombia
Indonesia
Poland
Country
x=France y=3.608e+05

Graph 6

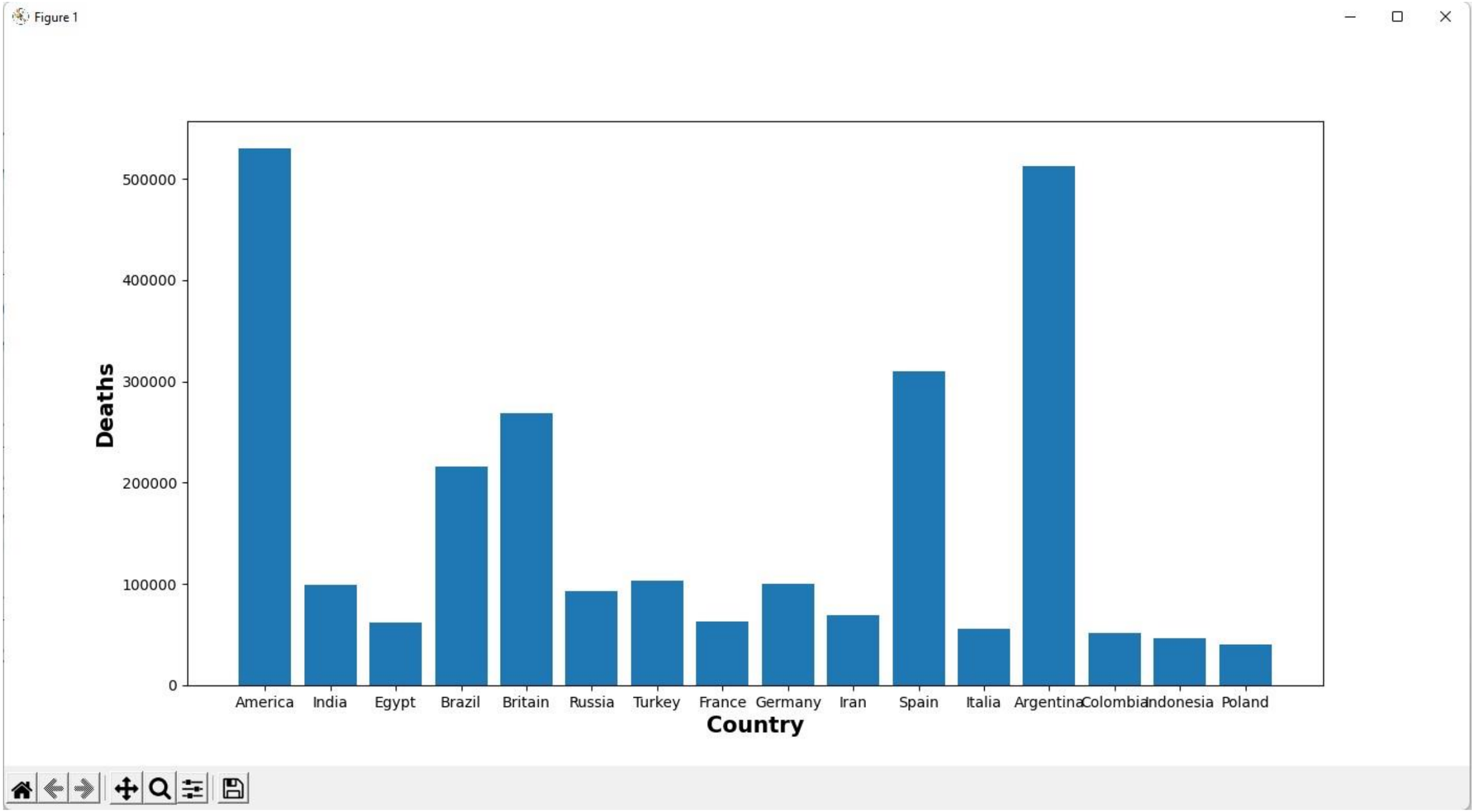
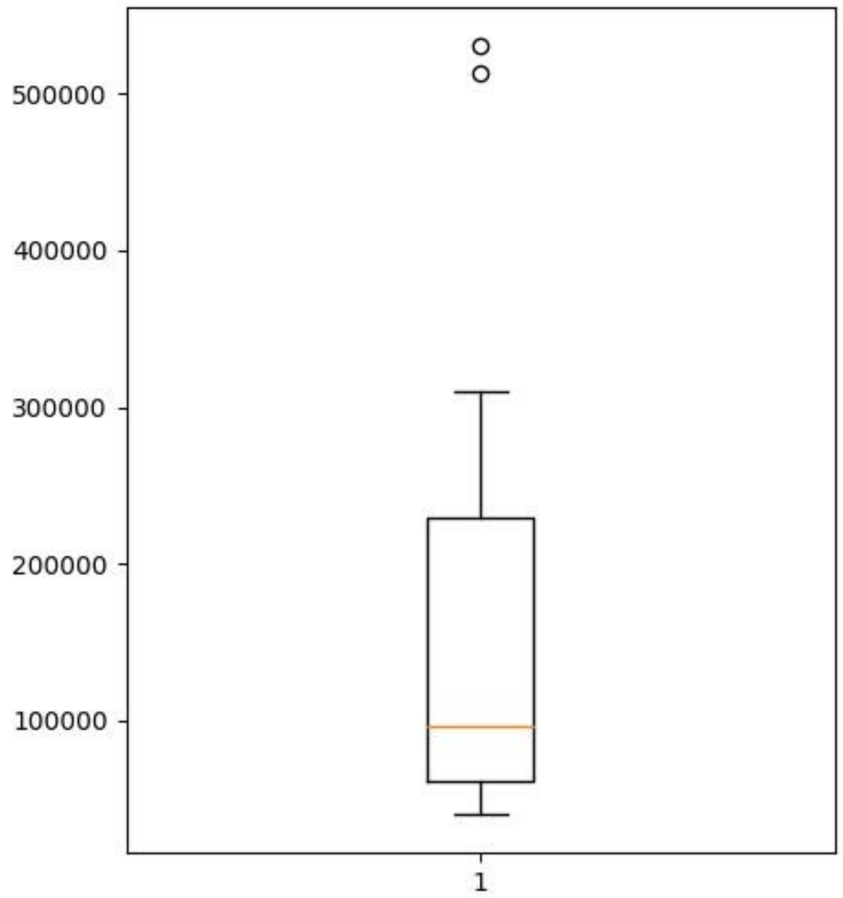


Figure 1
Deaths
500000
400000
300000
200000
100000
0
America
India
Egypt
Brazil
Britain
Russia
Turkey
France
Germany
Iran
Spain
Italia
Argentina
Colombia
Indonesia
Poland
Country

Graph 7

From our studies and from the previous shown graphs which represent the death cases in each sample country, we were able to calculate the following descriptive statistics:



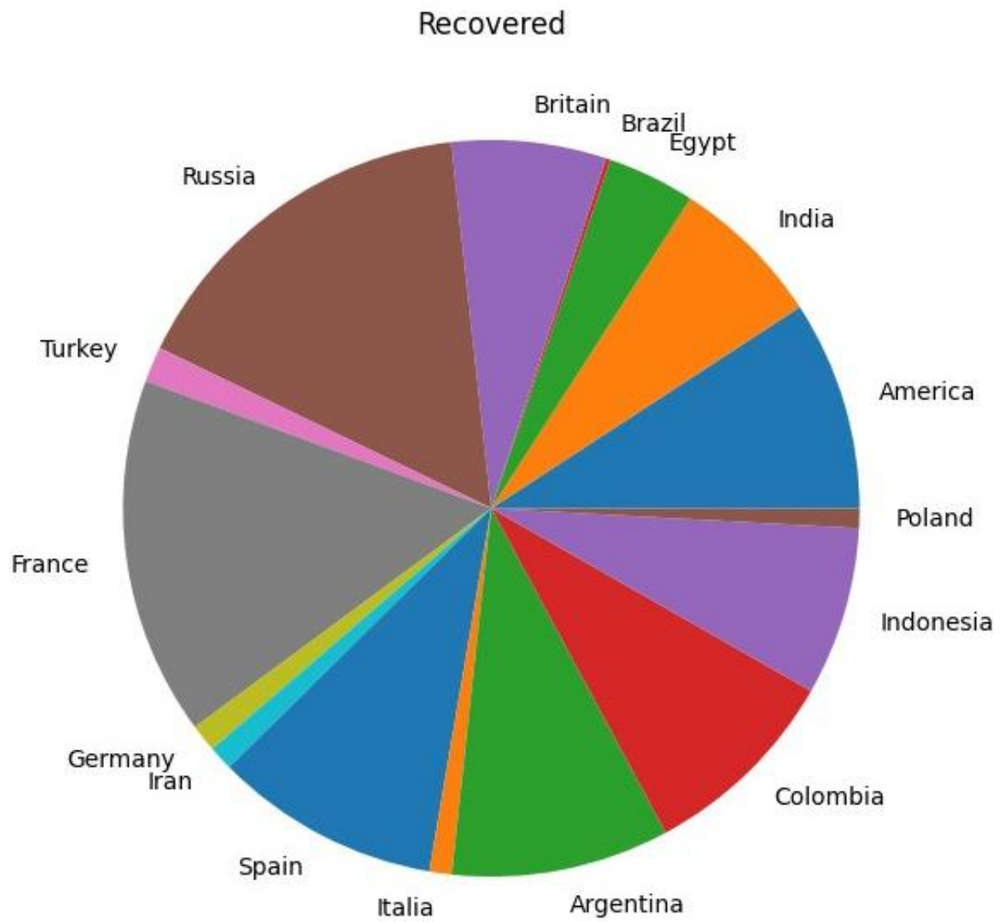
Graph 8

Deaths in all Countries :-

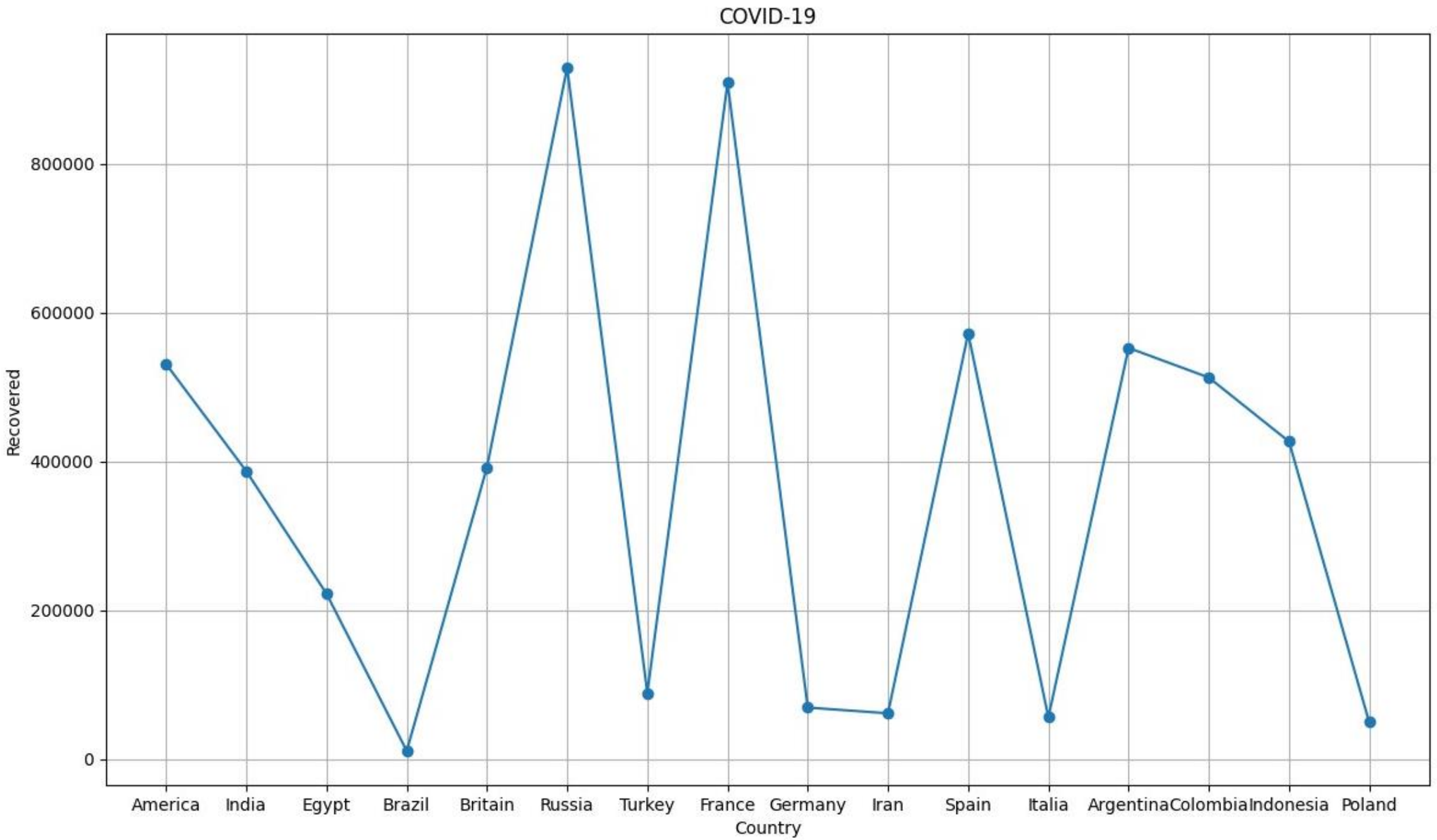
Mean = 163878.562	Median = 95900.0	Mode = 530565	Rang = 490157
IQR = 168006.0	Variance = 26070916351.729	Standard Deviation = 161464.907	

Fig.2

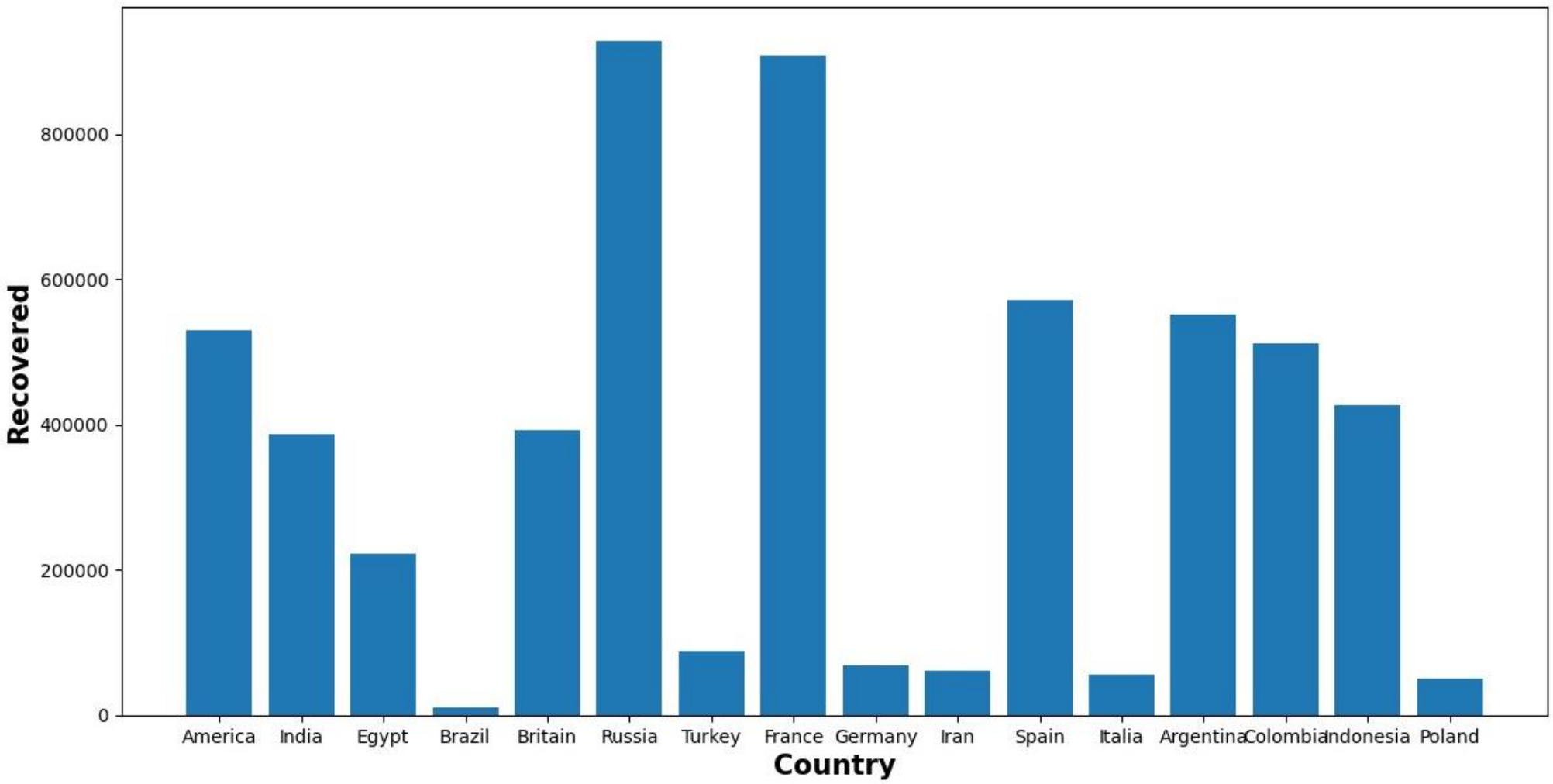
Research summary of Recovered



Graph 9

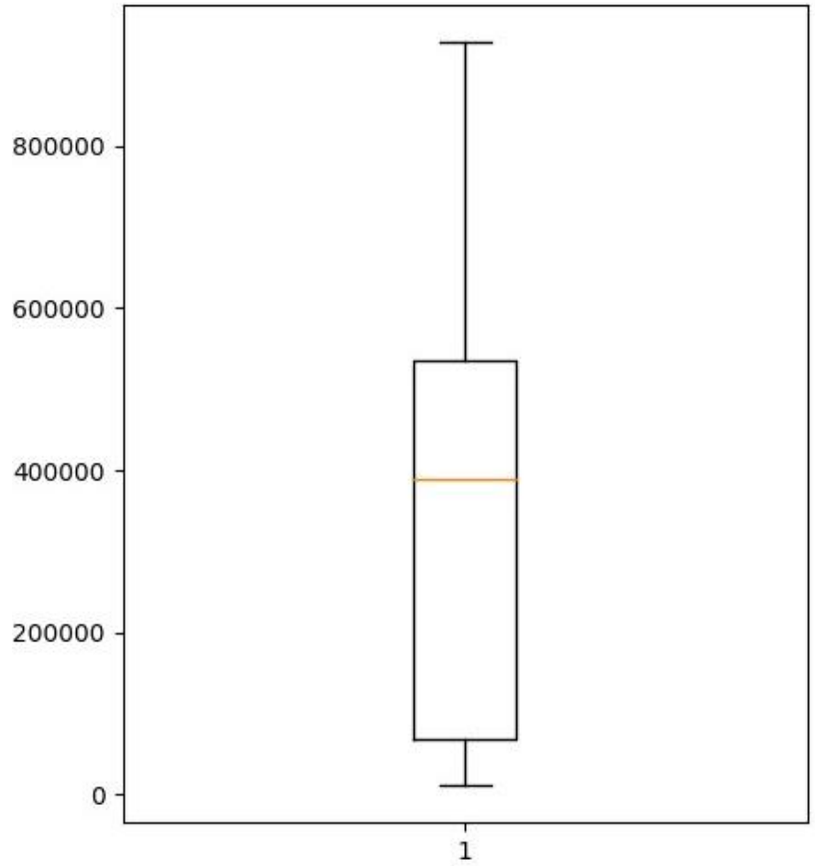

COVID-19
Recovered
800000
600000
400000
200000
0
America
India
Egypt
Brazil
Britain
Russia
Turkey
France
Germany
Iran
Spain
Italia
Argentina
Colombia
Indonesia
Poland
Country

Graph 10


Recovered
800000
600000
400000
200000
0
America
India
Egypt
Brazil
Britain
Russia
Turkey
France
Germany
Iran
Spain
Italia
Argentina
Colombia
Indonesia
Poland
Country

Graph 11

From our studies and from the previous shown graphs which represent the recovered cases in each sample country, we were able to calculate the following descriptive statistics:



Graph 12

Recovered in all Countries :-

Mean = 360652.375	Median = 389411.0	Mode = 530765	Rang = 917394
IQR = 468620.25	Variance = 89352502524.65	Standard Deviation = 298918.89	

Fig.3

Depending on this sample data, we were able to determine the relation between all data, and we can conclude the results in the fig. 4

Relations :-

Injuries & Deaths :-	r = 0.7	+ve Strong correlation coefficient	Y = 30477.37 + 0.662 X
Injuries & Recovered :-	r = 0.1	+ve Weak correlation coefficient	Y = 325387.709 + 0.175 X
Recovered & Deaths :-	r = 0.2	+ve Weak correlation coefficient	Y = 124928.106 + 0.108 X

Fig.4

Sample Data

Country	Injuries	Deaths	Recovered
America	530265	530565	530765
India	347802	99000	386802
Egypt	62462	62490	222326
Brazil	215628	215662	11292
Britain	268054	268777	392020
Russia	92886	92800	928686
Turkey	103710	103015	89065
France	62004	62904	908371
Germany	101476	100645	69476
Iran	68295	68935	61805
Spain	301101	309981	571807
Italia	56231	56269	56431
Argentina	512411	512901	552419
Colombia	51668	51698	512668
Indonesia	46197	46007	426667
Poland	404008	40408	49838

Fig.5