



COVID-19 PANDEMIC ANALYSIS

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INTRODUCTION

In December 2019 the first case of the COVID 19 was discovered in the city of Wuhan in China which is now known as the epicenter. The disease spread further to other countries around the world and currently 220 countries are affected by the virus. Data was collected from the website and used to analyze the spread of the virus. Head of states, Ministries of Health and Wellness and World Health Organization would be interested in the data collected and results. COVID-19 was chosen because it is a problem now.



PROBLEM

There is a need to determine how certain countries are progressing in their fight toward the COVID-19.

DATA SOURCE

The data was collected from the website and put in an csv file for ease of access. The data was initially collected from [www](#).

The data composes of a list of countries affected by the virus and their statistics of new cases, total cases, new deaths and total number of deaths by date.

METHODOLOGY

Data cleaning: countries that have no reports of the COVID-19 were removed from the report.

As the data came with records by date, it was combined to give totals for each country.

Statistical analysis methods such as bar charts were used to represent data and outcomes.

ANALYSIS

	date	location	new_cases	new_deaths	total_cases	total_deaths
0	2020-02-25	Afghanistan	NaN	NaN	1	NaN
1	2020-02-26	Afghanistan	0.0	NaN	1	NaN
2	2020-02-27	Afghanistan	0.0	NaN	1	NaN
3	2020-02-28	Afghanistan	0.0	NaN	1	NaN
4	2020-02-29	Afghanistan	0.0	NaN	1	NaN
...
2862	2020-03-13	World	7488.0	338.0	132758	4956.0
2863	2020-03-14	World	9761.0	433.0	142534	5392.0
2864	2020-03-15	World	10967.0	343.0	153517	5735.0
2865	2020-03-16	World	13971.0	855.0	167506	6606.0
2866	2020-03-17	World	11594.0	819.0	179112	7426.0

ANALYSIS

	new_cases	new_deaths	total_cases	total_deaths
location				
Afghanistan	20.0	0.0	96	0.0
Albania	49.0	0.0	211	4.0
Algeria	59.0	3.0	356	14.0
Andorra	13.0	0.0	31	0.0
Antigua and Barbuda	0.0	0.0	4	0.0

RESULTS

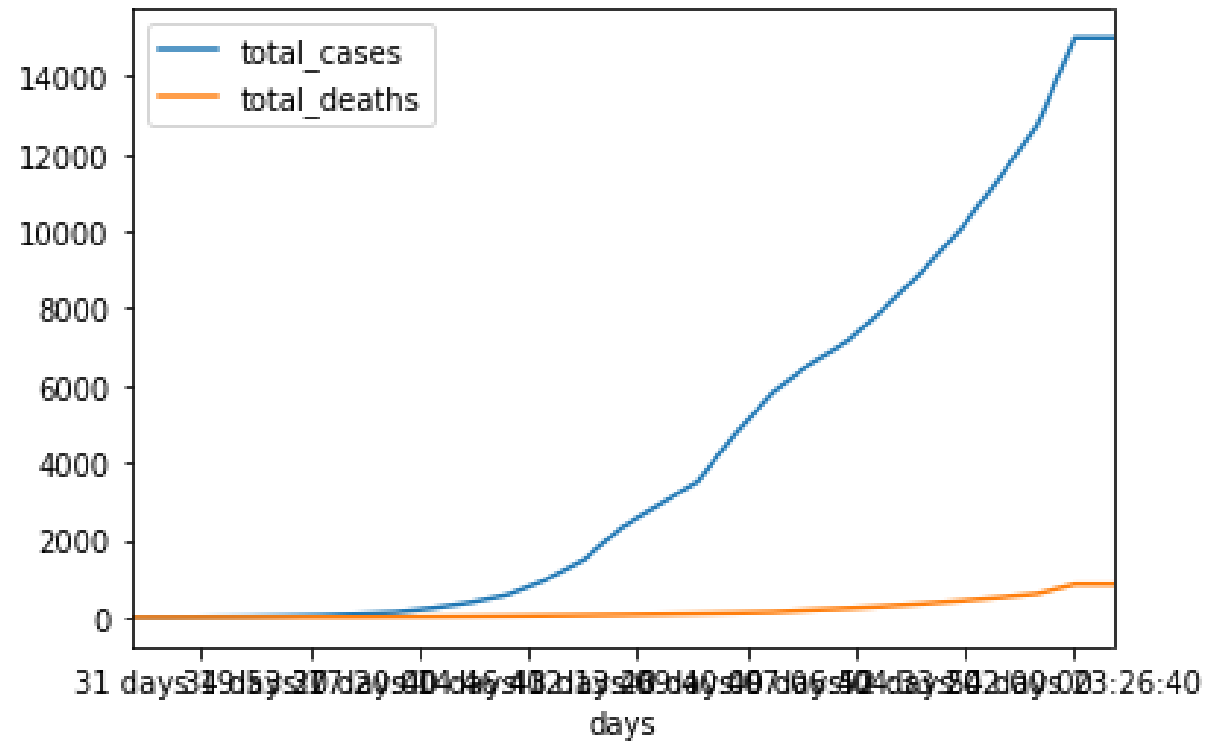
The country with the highest number of cases is: Italy

The country with the highest number of deaths is: Italy

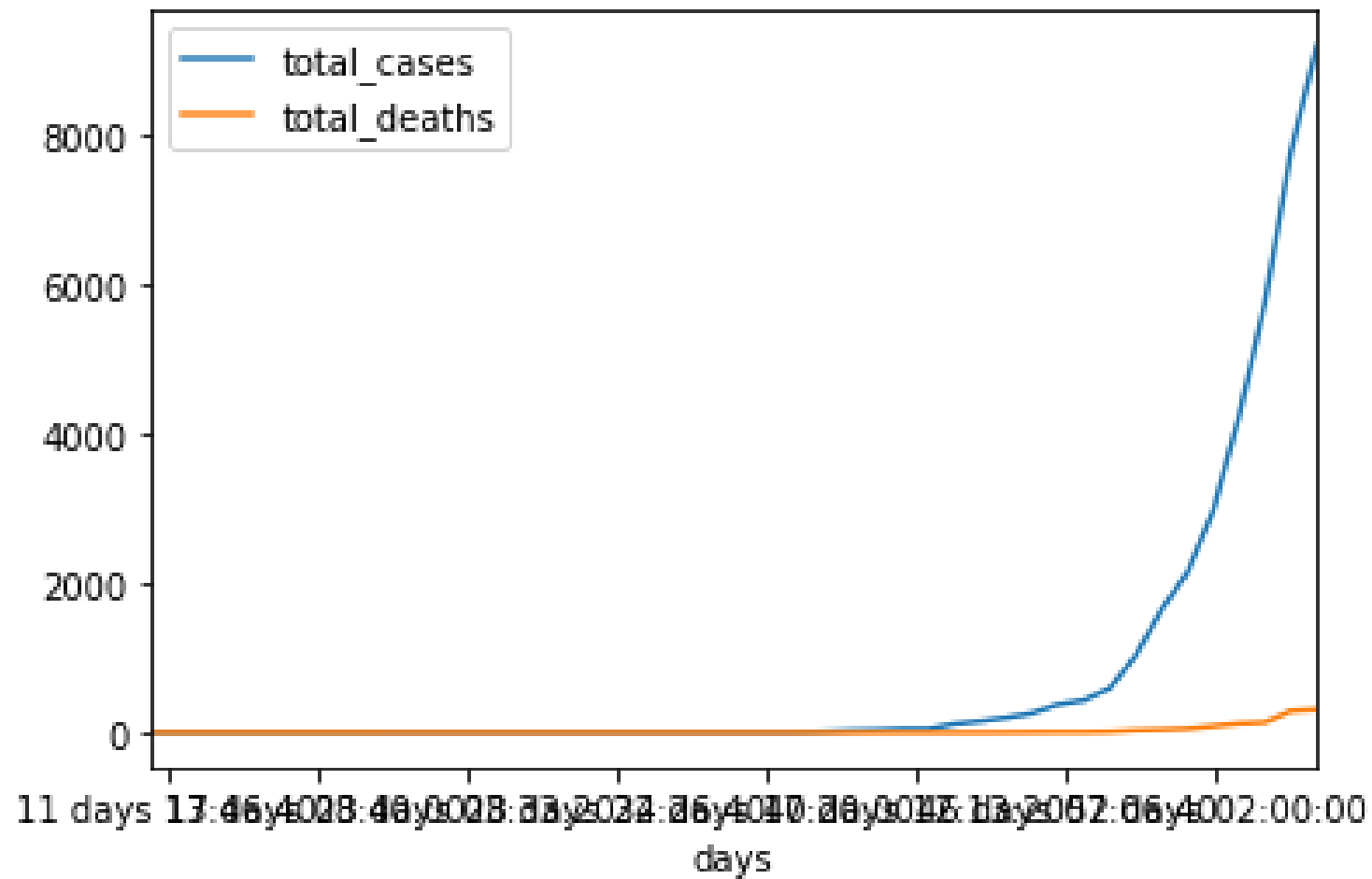
Countries of interest were selected: Iran, Spain and Italy. The following are their statistics:

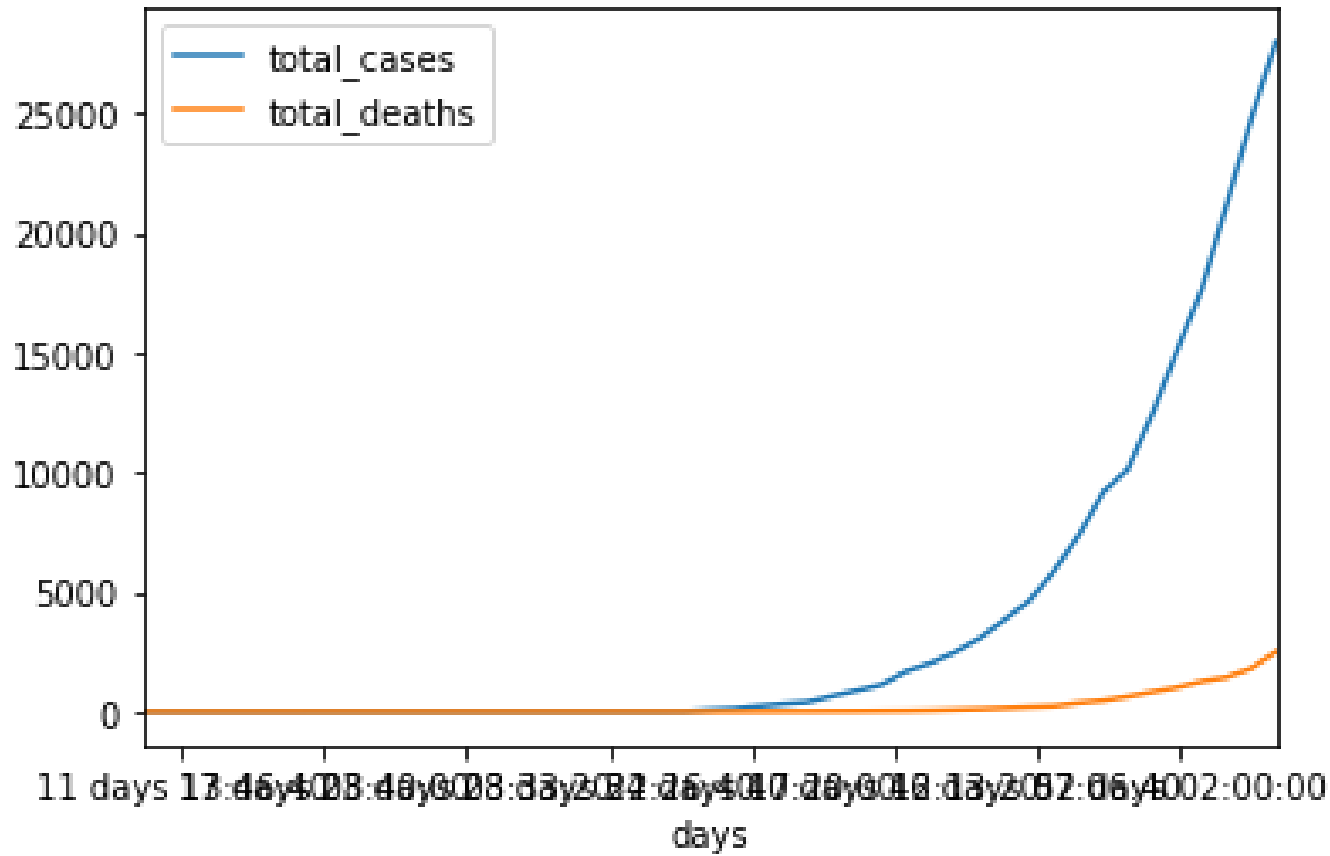
	new_cases	new_deaths	total_cases	total_deaths
location				
Iran	14989.0	851.0	118358	5171.0
Italy	27978.0	2501.0	173393	11277.0
Spain	9190.0	308.0	37011	1073.0

IRAN

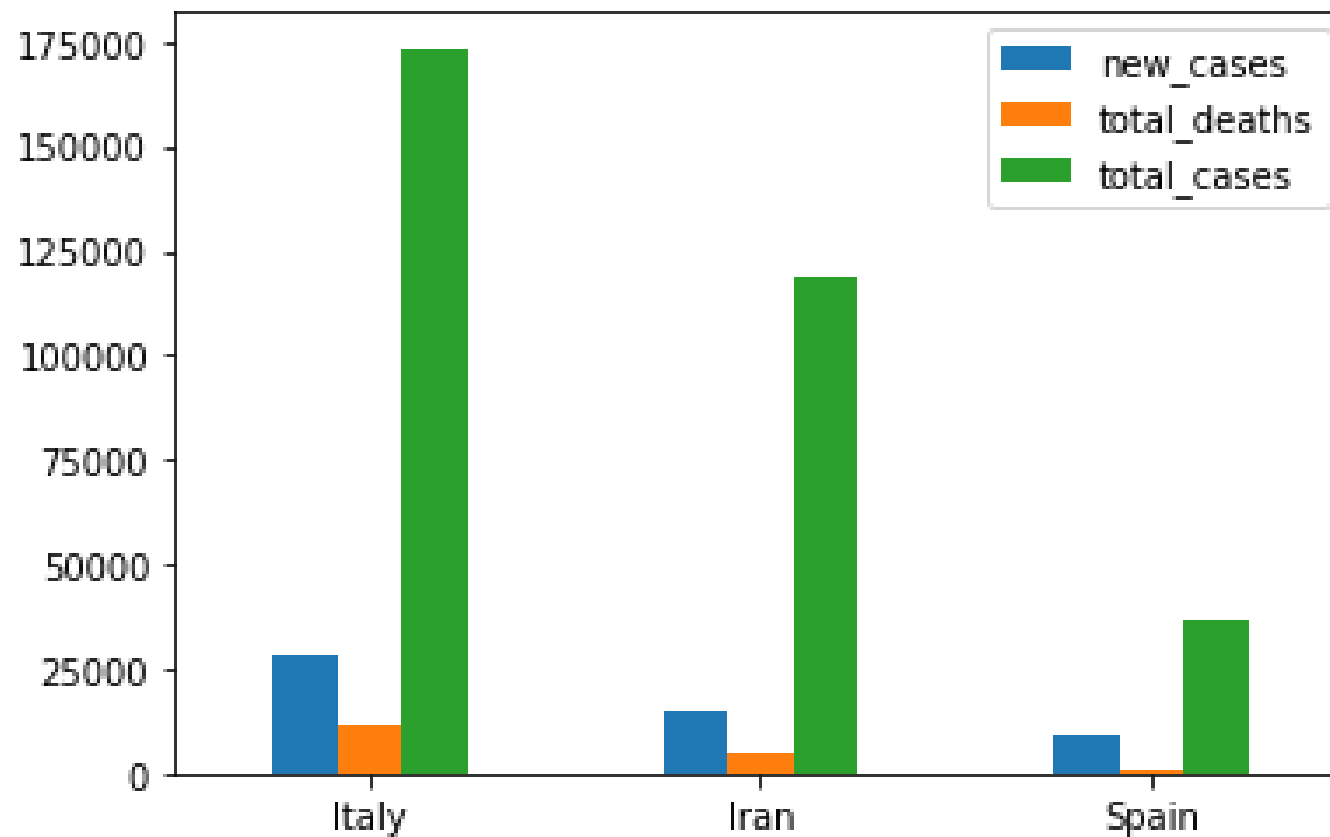


SPAIN

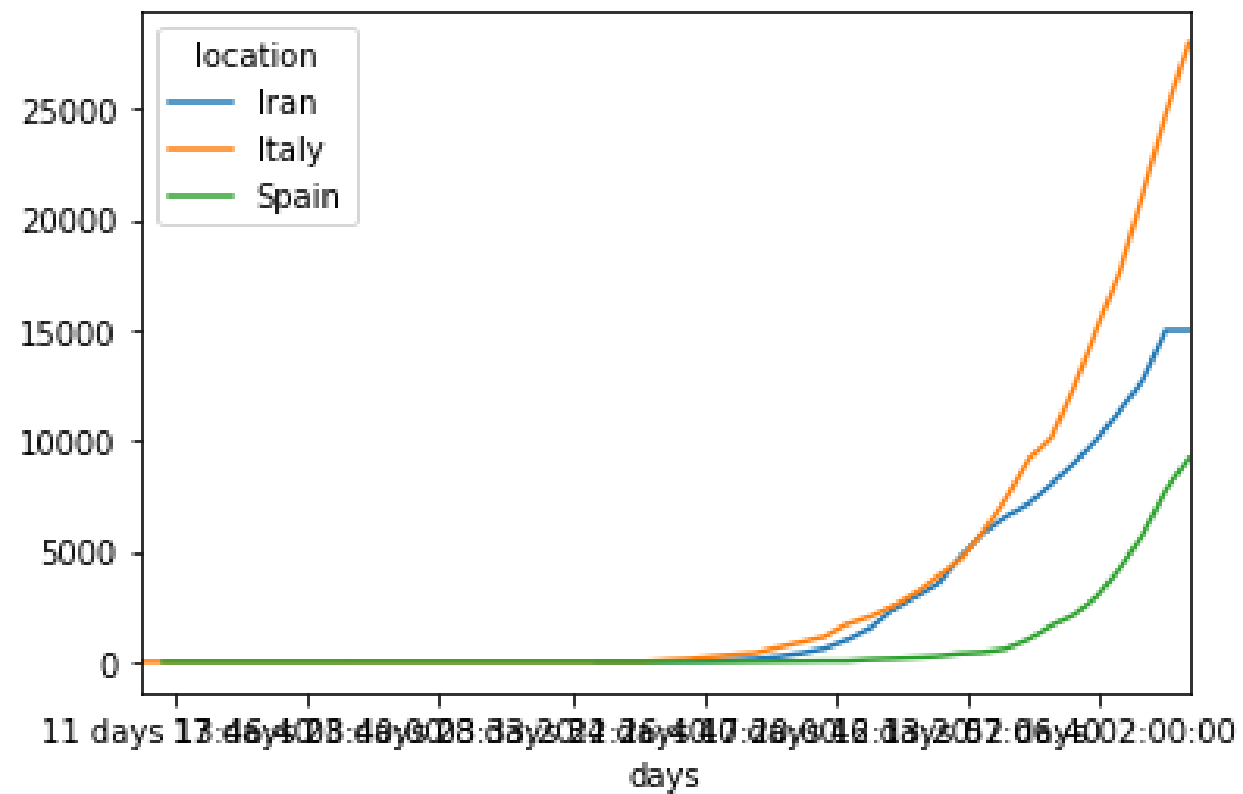




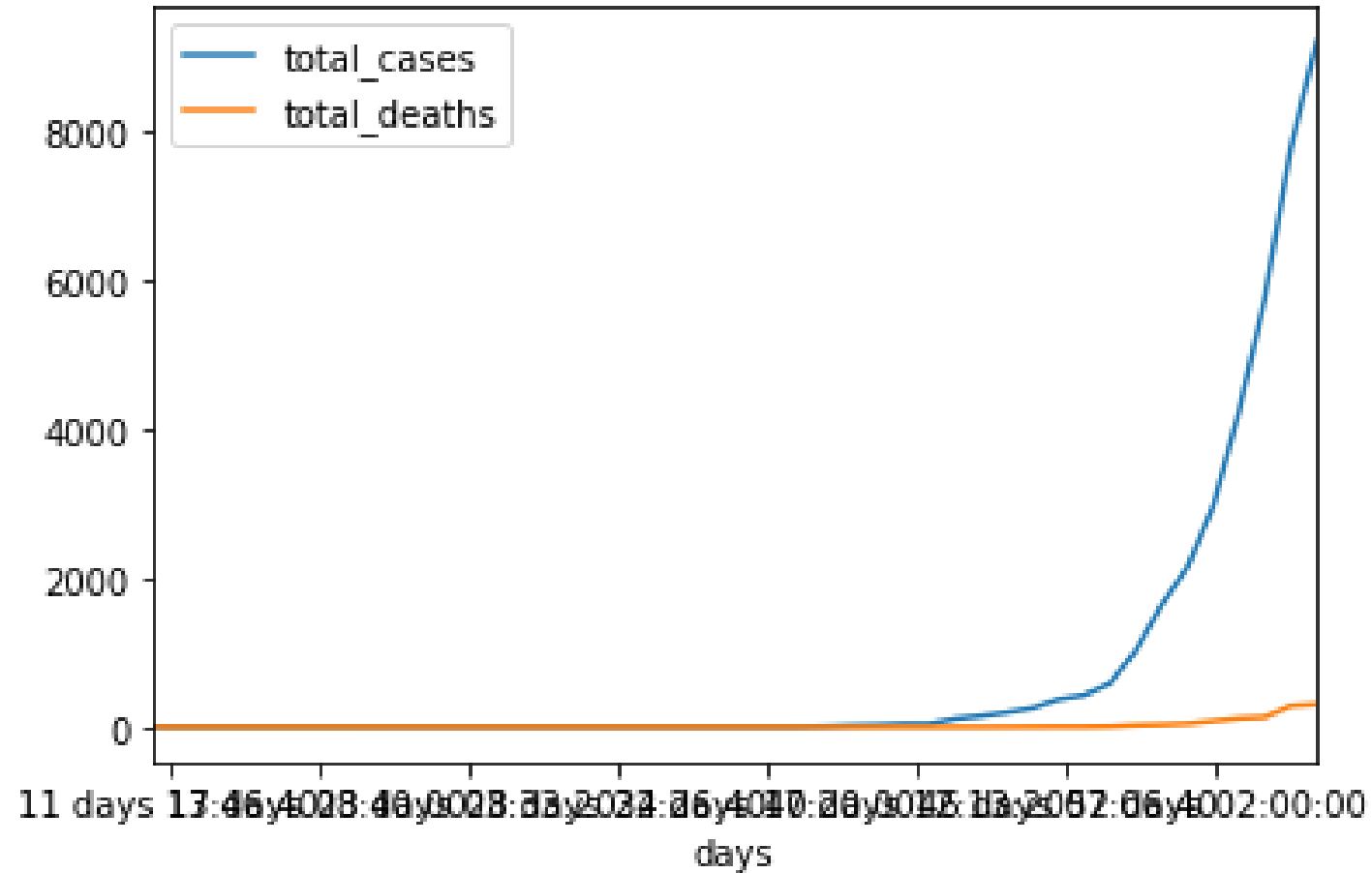
COMPARISON



COMPARISON



WORLD ANALYSIS



CONCLUSION

From the countries selected:

- Italy has more COVID-19 cases than the other two. It has more new cases emerging and deaths as well
- Spain has the least cases
- The total number of cases are increasing at an increasing rate. This means that there are more new cases and the virus is spreading very fast.