



SAUDI DATA COMMUNITY

Challenge of Analyzing Coronavirus (COVID-19)

By:

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1.1 Introduction

CoronaVirus (Covid-19) is the new coronavirus and most cases appeared in the Chinese city, Wuhan at the end of December 2019 in the form of acute pneumonia.

The origin of the virus It is believed that the COVID-19 originated in animals and most cases appeared in the seafood and animal market in Wuhan.

The challenge have specified a number of questions for the community.

1.2 DataSets Used

We are used new updated DataSets from **World Health Organization (WHO)**:

date	location	new_cases	new_deaths	total_cases	total_deaths
12/31/19	Afghanistan	0	0	0	0
1/1/20	Afghanistan	0	0	0	0
1/2/20	Afghanistan	0	0	0	0
1/3/20	Afghanistan	0	0	0	0
1/4/20	Afghanistan	0	0	0	0
1/5/20	Afghanistan	0	0	0	0
1/6/20	Afghanistan	0	0	0	0
1/7/20	Afghanistan	0	0	0	0
1/8/20	Afghanistan	0	0	0	0
1/9/20	Afghanistan	0	0	0	0
1/10/20	Afghanistan	0	0	0	0
1/11/20	Afghanistan	0	0	0	0
1/12/20	Afghanistan	0	0	0	0
1/13/20	Afghanistan	0	0	0	0
1/14/20	Afghanistan	0	0	0	0
1/15/20	Afghanistan	0	0	0	0

1.3 Techniques

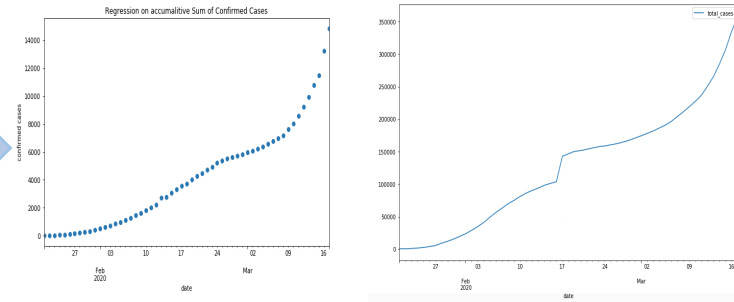
In this research we used new update of coronavirus by new ways , so we are use these techniques : python & Tableau

1.4 Visualization of Data

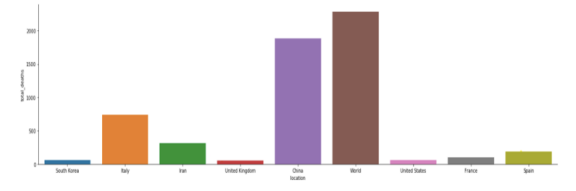
Sort the values of total cases and total deaths in the world as descending order :

total_deaths	total_cases	new_deaths	new_cases	location	date
7426	179112	819	11594	World	00:00:00 2020-03-17
6606	167506	855	13971	World	00:00:00 2020-03-16
5735	153517	343	10967	World	00:00:00 2020-03-15
5392	142534	433	9761	World	00:00:00 2020-03-14
4956	132758	338	7488	World	00:00:00 2020-03-13
4613	125260	317	6936	World	00:00:00 2020-03-12
4292	118319	275	4611	World	00:00:00 2020-03-11
4012	113702	201	4119	World	00:00:00 2020-03-10
3809	109577	224	3979	World	00:00:00 2020-03-09
3584	105592	96	3644	World	00:00:00 2020-03-08
3486	101827	104	3730	World	00:00:00 2020-03-07

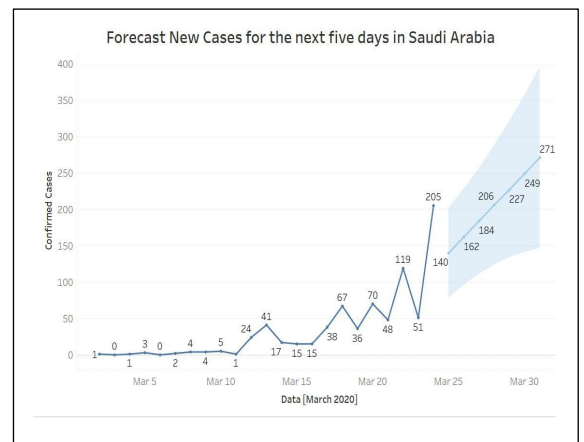
Trending line to show number of cases according date:



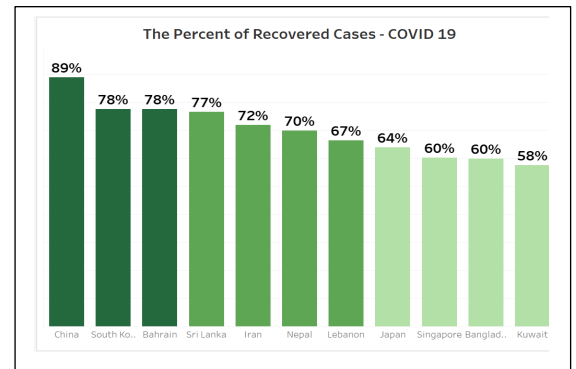
Show number of country have more than 500 cases :



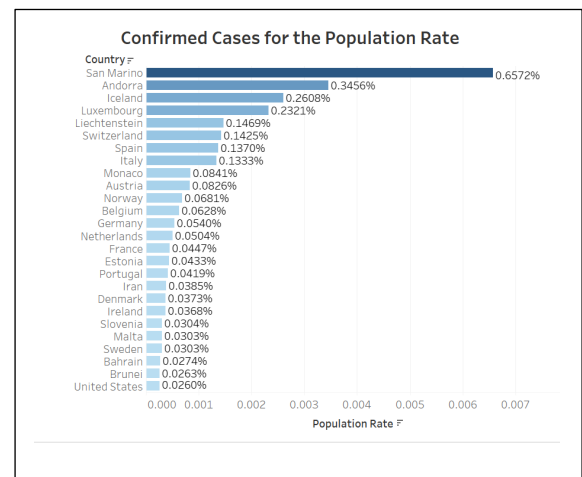
To forecasting new cases:



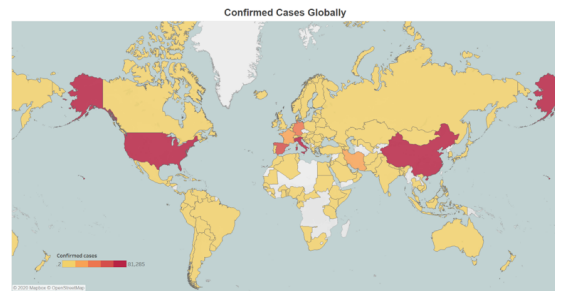
To show percent of Recovered cases :



Confirmed cases and population rate :

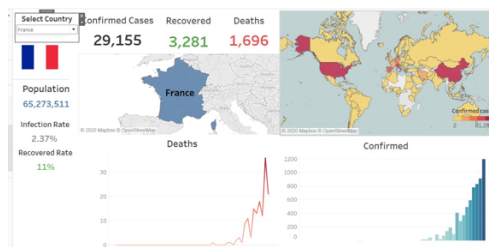


Confirmed cases as globally



To show the number of each :Confirmed cases , Recovered , Deaths in China .

To show the number of each :Confirmed cases , Recovered , Deaths in Spain .



To show the number of each :Confirmed cases , Recovered , Deaths in France .

To show the number of each :Confirmed cases , Recovered , Deaths in Italy .



Resources:

- World Health Organization (WHO):
<https://www.who.int/>
- <https://google.org/crisisresponse/covid1>