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COVID-19-USA Data Analytics from January 01,2020 to April 06, 2020

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Abstract

This an attempt of COVID-19-USA data analytics from We have fro January 01, 2020 to April 06, 2020 of USA COVID-19 daily evolution since the beginning. We proceeded to descriptive analytics using python. Three points presented in this study: data presentation which revels the data not munged and we have to munge them; the second point, the data are munged; and, the last point concerns the descriptive analytics.

1 COVID-19-USA Dataset Presentation

35698 rows of data for 55 states not well presented and munged from the "https://raw.githubusercontent.com/nytimes/covid-19-data/master/us-counties.csv'" presenting COVID-19 daily evolution in 55 USA states from January 01, 2020 to April 05, 2020.

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Out[106]:
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	date	county	state	fips	cases	deaths
0	2020-01-21	Snohomish	Washington	53061.0	1	0
1	2020-01-22	Snohomish	Washington	53061.0	1	0
2	2020-01-23	Snohomish	Washington	53061.0	1	0
3	2020-01-24	Cook	Illinois	17031.0	1	0
4	2020-01-24	Snohomish	Washington	53061.0	1	0
5	2020-01-25	Orange	California	6059.0	1	0
6	2020-01-25	Cook	Illinois	17031.0	1	0
7	2020-01-25	Snohomish	Washington	53061.0	1	0
8	2020-01-26	Maricopa	Arizona	4013.0	1	0
9	2020-01-26	Los Angeles	California	6037.0	1	0
10	2020-01-26	Orange	California	6059.0	1	0
11	2020-01-26	Cook	Illinois	17031.0	1	0
12	2020-01-26	Snohomish	Washington	53061.0	1	0
13	2020-01-27	Maricopa	Arizona	4013.0	1	0
14	2020-01-27	Los Angeles	California	6037.0	1	0
15	2020-01-27	Orange	California	6059.0	1	0
16	2020-01-27	Cook	Illinois	17031.0	1	0
17	2020-01-27	Snohomish	Washington	53061.0	1	0
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2 COVID-19-USA Dataset Restructuration

After munging, we have the dataset restructured with 55 total number of the states and with the total numbers of the cases and deaths for each state of COVID-19. From now we can read for Alabama, from January 01, 2020 to April 05, 2020, The state of Alabama registers 15522 cases and 289 deaths of COVID-19.

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Out[104]:
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	state	count	cases	deaths
0	Alabama	933	15522	282
1	Alaska	132	1841	29
2	Arizona	334	18401	363
3	Arkansas	916	9050	135
4	California	1462	134700	2912
5	Colorado	965	44606	1041
6	Connecticut	188	44759	1172
7	Delaware	68	5147	111
8	District of Columbia	31	8311	149
9	Florida	1221	100127	1569
10	Georgia	2243	59001	1951
11	Guam	23	1801	33
12	Hawaii	115	3436	18
13	Idaho	401	8282	95
14	Illinois	1013	91207	1811
15	Indiana	1329	32441	875
16	Iowa	904	7255	115
17	Kansas	644	6395	173
18	Kentucky	1052	8684	308

3 COVID-19-USA analysis

The statistics are the followings:

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Out[111]:
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	count	cases	deaths
count	55.000000	5.500000e+01	55.000000
mean	694.490909	5.171644e+04	1175.545455
std	527.437792	1.534379e+05	3493.065145
min	10.000000	5.400000e+01	0.000000
25%	265.500000	4.904500e+03	71.000000
50%	551.000000	1.348600e+04	282.000000
75%	1051.000000	3.885800e+04	904.000000
max	2243.000000	1.111808e+06	25089.000000

Per day, the USA registered per day 51714 cases and 1176 deaths. The Northern Mariana Islands state is the state with minimum cases number registered of 54 cases per day and The New York State has the maximum registered cases number par day of 1111808 cases.

The other side, The minimum number of deaths is registered in Wyoming state and the maximum number of deaths is in New York state with 25089 followed by New Jersey with maximum number of cases of 282993 cases.

The New York state has the big probablity of infections and deaths.

The data visualisation is given by the two below charts.

