# Data Processing and Analytics COVID-19 Analysis

**CORONAVIRUS (COVID-19)** 

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#### **Dataset**

https://www.dropbox.com/s/smw5aein7i8zr1d/covid-19-data-resource-hub-covid-19-case-counts%20%281%29.zip?dl=0 https://github.com/juliom12/covid 19 cases

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A1 $\stackrel{\triangle}{\downarrow}$ $\times$ $\checkmark$ $f_X$ case_type																
4	А	В	С	D	Е	F	G	Н	J	К	L	М	N	0	P Q	R
	case_type	people_total	cases d	lifference da	ate	combined_key	country_regi	province_sta admin2	iso2	iso3	fips	lat	long	population_c	people_hosp data_sourc	e prep_flow_runtime
(	Confirmed		0	0	2/3/20	Switzerland	Switzerland	N/A	CH	CHE		46.8182	8.2275	8654618	2019 Novel	C 2020-04-24T00:14
1	Deaths		0	0	3/1/20	Cyprus	Cyprus	N/A	CY	CYP		35.1264	33.4299	1207361	2019 Novel	C 2020-04-24T00:14
(	Confirmed		23	0	4/21/20	Antigua and Barbuda	Antigua and	N/A	AG	ATG		17.0608	-61.7964	97928	2019 Novel	C 2020-04-24T00:14
1	Deaths		0	0	2/11/20	Jamaica	Jamaica	N/A	JM	JAM		18.1096	-77.2975	2961161	2019 Novel	C 2020-04-24T00:14
(	Confirmed		0	0	2/6/20	Belize	Belize	N/A	BZ	BLZ		17.1899	-88.4976	397621	2019 Novel	C 2020-04-24T00:14
	Confirmed		1	0	3/18/20	Central African Repu	Central Afric	N/A	CF	CAF		6.6111	20.9394	4829764	2019 Novel	C 2020-04-24T00:14
(	Confirmed		1	0	3/19/20	Central African Repu	Central Afric	N/A	CF	CAF		6.6111	20.9394	4829764	2019 Novel	C 2020-04-24T00:14
1	Deaths		5	1	4/13/20	Bermuda, United Kin	United Kingo	Bermuda	BM	BMU		32.3078	-64.7505	62273	2019 Novel	C 2020-04-24T00:14
1	Deaths		31	9	3/30/20	Poland	Poland	N/A	PL	POL		51.9194	19.1451	37846605	2019 Novel	C 2020-04-24T00:14
1	Deaths		3	0	4/9/20	Manitoba, Canada	Canada	Manitoba	CA	CAN		53.7609	-98.8139	1377517	2019 Novel	C 2020-04-24T00:14
ı	Deaths		0	0	2/19/20	Tibet, China	China	Tibet	CN	CHN		31.6927	88.0924	3440000	2019 Novel	C 2020-04-24T00:14
	Confirmed		0	0	3/4/20	South Sudan	South Sudan	N/A	SS	SSD		6.877	31.307	11193729	2019 Novel	C 2020-04-24T00:14
ı	Deaths		0	0	2/23/20	Inner Mongolia, Chin	China	Inner Mongolia	CN	CHN		44.0935	113.9448	25340000	2019 Novel	C 2020-04-24T00:14
	Confirmed		0	0	3/28/20	Bonaire, Sint Eustati	Netherlands	Bonaire, Sint Eustatius a	n BQ	BES		12.1784	-68.2385	26221	2019 Novel	C 2020-04-24T00:14
1	Deaths		47	8	4/19/20	Croatia	Croatia	N/A	HR	HRV		45.1	15.2	4105268	2019 Novel	C 2020-04-24T00:14
ı	Deaths		0	0	4/12/20	Chad	Chad	N/A	TD	TCD		15.4542	18.7322	16425859	2019 Novel	C 2020-04-24T00:14
1	Deaths		109	10	4/13/20	Hungary	Hungary	N/A	HU	HUN		47.1625	19.5033	9660350	2019 Novel	C 2020-04-24T00:14
ı	Deaths		0	0	2/7/20	Sudan	Sudan	N/A	SD	SDN		12.8628	30.2176	43849269	2019 Novel	C 2020-04-24T00:14
(	Confirmed		0	0	2/7/20	Aruba, Netherlands	Netherlands	Aruba	AW	ABW		12.5211	-69.9683	106766	2019 Novel	C 2020-04-24T00:14
(	Confirmed		6	0	4/15/20	Saint Barthelemy, Fr	France	Saint Barthelemy	BL	BLM		17.9	-62.8333	9885	2019 Novel	C 2020-04-24T00:14
ı	Deaths		0	0	2/23/20	Singapore	Singapore	N/A	SG	SGP		1.2833	103.8333	5850343	2019 Novel	C 2020-04-24T00:14
1	Deaths		0	0	1/24/20	Hungary	Hungary	N/A	HU	HUN		47.1625	19.5033	9660350	2019 Novel	C 2020-04-24T00:14
1	Deaths		0	0	1/31/20	Bermuda, United Kin	United Kingo	Bermuda	BM	BMU		32.3078	-64.7505	62273	2019 Novel	C 2020-04-24T00:14
ı	Deaths		0	0	3/8/20	Bulgaria	Bulgaria	N/A	BG	BGR		42.7339	25.4858	6948445	2019 Novel	( 2020-04-24T00:14
(	Confirmed		15	0	4/17/20	Saint Lucia	Saint Lucia	N/A	LC	LCA		13.9094	-60.9789	183629	2019 Novel	C 2020-04-24T00:14
(	Confirmed		1	0	2/8/20	Nepal	Nepal	N/A	NP	NPL		28.1667	84.25	29136808	2019 Novel	( 2020-04-24T00:14
ı	Deaths		2	0	3/21/20	United Arab Emirate	United Arab	N/A	AE	ARE		23.424076	53.847818	9890400	2019 Novel	( 2020-04-24T00:14
1	Deaths		0	0	4/14/20	Sierra Leone	Sierra Leone	N/A	SL	SLE		8.460555	-11.779889	7976985	2019 Novel	(2020-04-24T00:14

### Project goals

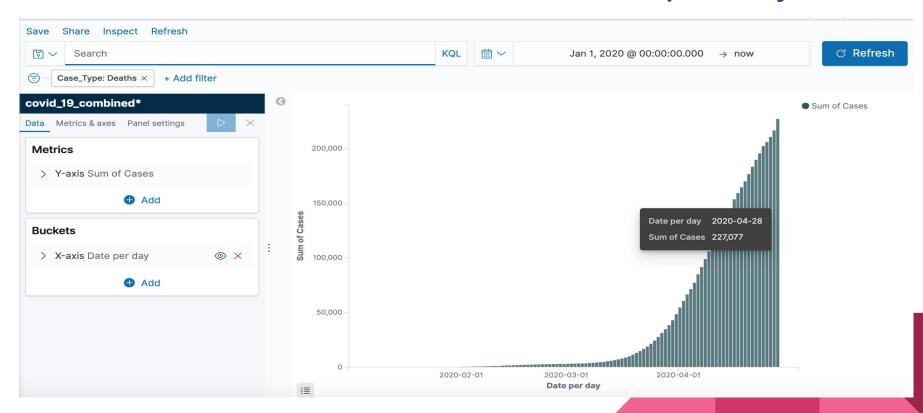
The purpose of data processing and analyzing this Covid-19 dataset is to receive more insight on the current pandemic i.e.

- The comparison of confirmed cases to deaths
- Countries with the highest death cases and confirmed cases
- Map of death cases around the world
- The count of cases per day
- Each countries percentage of cases

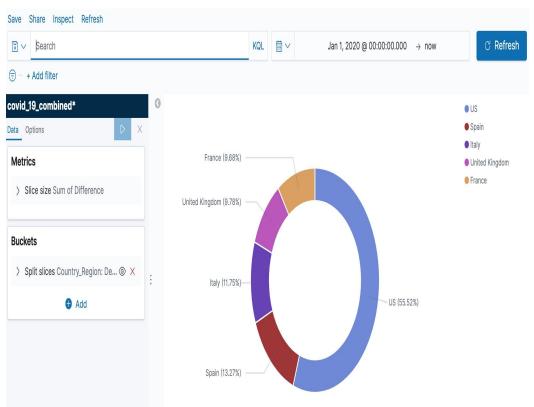
# Elastic Visualization 1: Geospatial Map of Death Cases

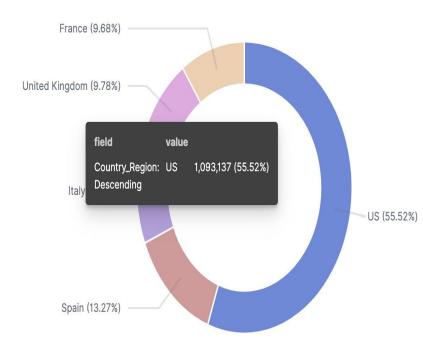


# Elastic Visualization 2: Sum of cases per day

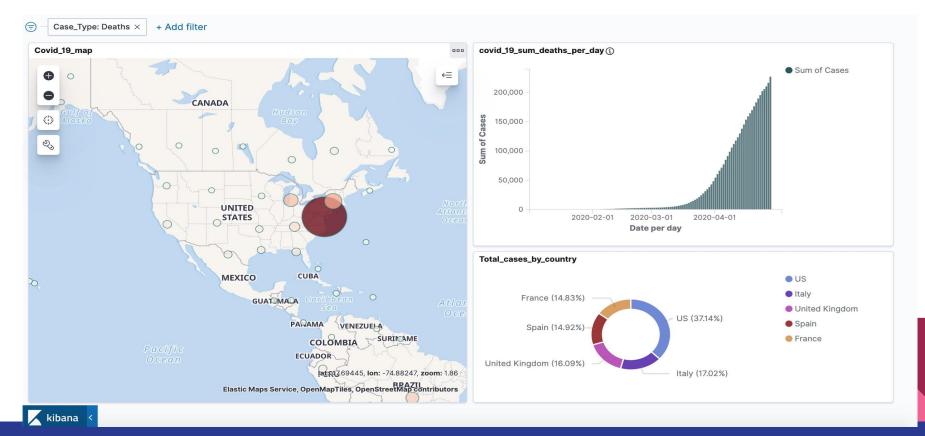


## Elastic Visualization 3: Total Case % by country

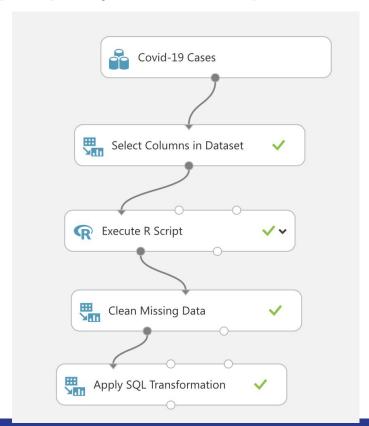




#### Elastic Covid-19 Dashboard



# Azure ML https://gallery.cortanaintelligence.com/Experiment/Covid-19



#### Azure ML

Covid-19 > Clean Missing Data > Cleaned dataset

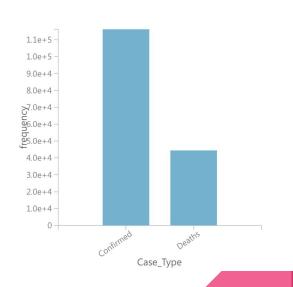
rows 160693 columns

593

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view as

Case_Type	Cases	Difference	Date	Country_Region	
L	<u></u>	L			
Confirmed	4815	344	2020-04- 06T00:00:00Z	Chile	
Confirmed	2	0	2020-04- 14T00:00:00Z	US	1
Confirmed	145	2	2020-04- 04T00:00:00Z	France	
Confirmed	4	0	2020-04- 02T00:00:00Z	US	,
Confirmed	22	2	2020-04- 28T00:00:00Z	US	
Confirmed	40	2	2020-04- 15T00:00:00Z	US	
Confirmed	562	51	2020-03-	Saudi Arabia	



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#### Azure ML

