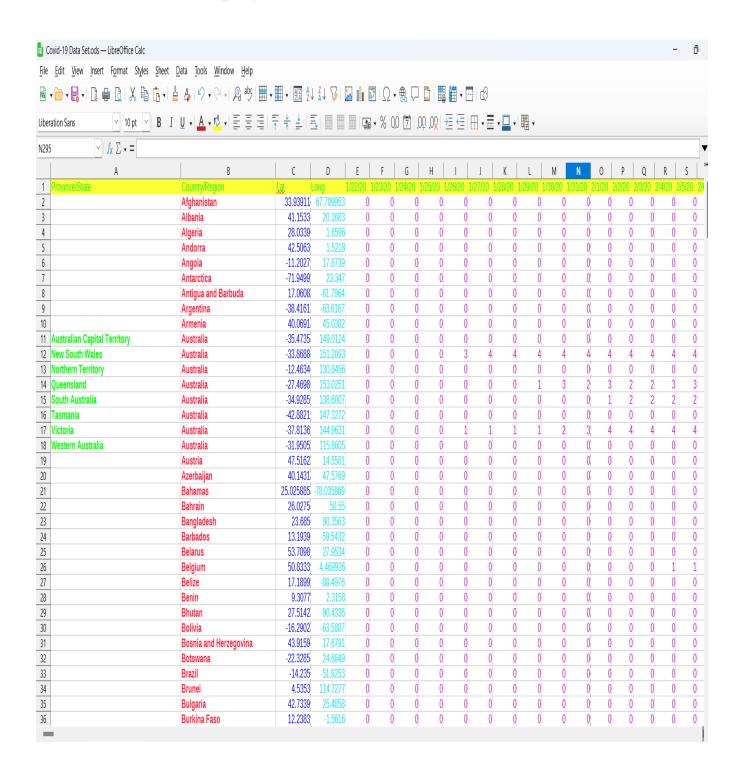
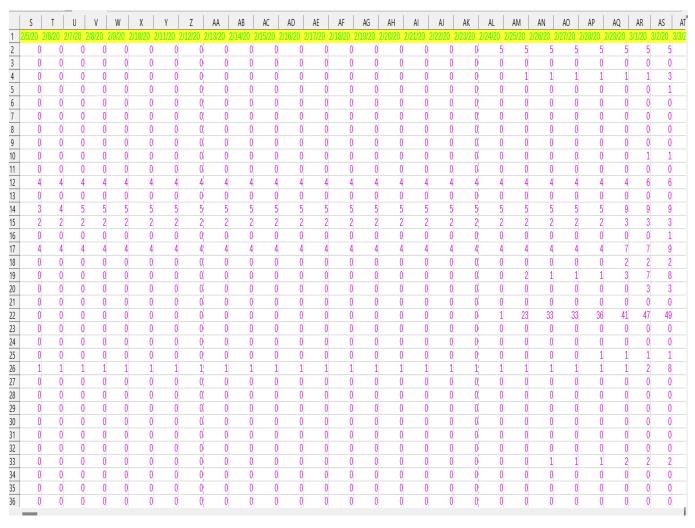
#### **COVID-19 DATASET AND EXECUTING IN JUPYTER**

#### **Objective:-**

The Covid-19 Is A Most Dangerous Various In All World Into, Covid 19 is the most dangerous disease in the world and many people have died due to it, so very dangerous disease.

- 1. IS this data is sufficient to solve my problem or not?
- 2. Data Cleaning
- 3. Data Processing
- 4. Data Execute
- 5. Execute in the program.





N295		VI	°x ∑ <b>-</b> =										· ·									•
ī	MG	MH	MI	MJ	MK	ML	MM	MN	МО	MP	MQ	MR	MS	MT	MU	MV	MW	MX	MY	MZ	NA	NB "
1 1	2/27/20 1	2/28/20 1	2/29/20 1	2/30/20	12/31/20 1	/1/21 1	/2/21 1	1/3/21 1	/4/21	1/5/21	1/6/21	1/7/21 1	/8/21	1/9/21	1/10/21	1/11/21	1/12/21	1/13/21	1/14/21	1/15/21 1	1/16/21 1	1/17/21
2	51848	52007	52147	52330	52330	52513	52586	52709	52909	53011	53105	53207	53332	53400	53489	53538	53584	53690	53775	53831	53938	539
3	56254	56572	57146	57727	58316	58316	58991	59438	59623	60283	61008	61705	62378	63033	63595	63971	64627	65334	65994	66635	67216	676
4	98249	98631	98988	99311	99610	99897	100159	100408	100645	100873	101120	101382	101657	101913	102144	102369	102641	102860	103127	103381	103611	1038
5	7821	7875	7919	7983	8049	8117	8166	8192	8249	8308	8348	8348	8489	8586	8586	8586	8682	8818	8868	8946	9038	90
6	17240	17296	17371¦	17433	17553	17568	17608	17642	17684	17756	17864	17974	18066	18156	18193	18254	18343	18425	18613	18679	18765	188
7	0	0	0,	0	0	0	0	0	0	0	0	0'	0	0	0	0	0	0		0	0,	
8	155	158	158	158	159	159	159	160	160	160	163	163	167	169	176	176	176	176		184	187	1
9						1629594	1634834	1640718	1648940	1662730	1676171	1690006	1703352	1714409	1722217	1730921	1744704	1757429		1783047	1791979	17992
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13	73	74	74	74	75	75	81	81	81	1262	1205	1074	90	90	90	90	91	93		93	93	10
14	1246 572	1248 572	1250 575	1253 576	1253 580	1255 580	1255 580	1260 583	1262 581	1263 582	1265 582	1274	1274 587	1274 587	1278 588	1281 588	1283 590	1287 590	1290 591	1291 593	1293	12 5
15 16	234	234	234	234	234	234	234	234	234	234	234	585 <sub>1</sub> 234:	234	234	234	234	234	234	234	234	593 <sub>1</sub> 234 <sub>2</sub>	2
17	20364	20364	20365	20368	20376	20388	20391	20395	20399	20402	20402	20403	20404	20410	20411	20411	20414	20414	20414	20417	20424	204
18	858	858	859 <sup>1</sup>	859	861	863	867	868	869	872	874	874	874	875	877	878	879	881	884	886	887	8
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20	214711	215483	216584	217636	218700	219041	219462	220265	220599	221401	222200	222885	223417	224050	224651	224827	225346	225820	226200	226549	226951	2272
21	7834	7834	7846	7857	7871	7887	7887	7914	7924	7928	7945	7959	7969	7969	7969	8004	8004	8011	8011	8021	8032	80
22	91733	91935	92169	92425	92675	92913	93184	93478	93766	93995	94284	94633	95030	95317	95558	95879	96195	96470	96812	97020	97268	976
23	509148	510080	511261	512496	513510	514500	515184	516019	516929	517920	518898	519905	520690	521382	522453	523302	524020	524910	525723	526485	527063	5276
24	356	365	371	372	383	395	395	556	606	643	743	743	780	808	878	884	968	1007	1036	1036	1095	10
25	186747	188588	190404	192361	194284	196223	198125	199962	201831	203104	204958	206796	208601	210368	212201	213993	215724	217696	219663	221604	223537	2254
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27	10561	10591	10668	10724	10776	10776	10807	10901	10938	11018	11108	11152	11202	11266	11303	11332	11366	11419	11456	11529	11529	115
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29	623	623	636¦	655	670	689	710	716	734	734	755	767¦	771	810	813	825	831	833	834	837	842	8
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31	109691	109911	110454	110985	110985	112143	112143	112645	112645	113392	113392	113392	114920	115379	115633	115633	116200	116668	117011	117011	117011	1170
32	14025	14025	14025	14700	14805	14805	14805	14805	15368	15440	15440	16050	16050	16050	16050	16768	16768	16768	17365	17365	17365	173
33		7514592	-	7626563		7703971	7719324	7736514	7761553	7819636	7882143	7970112	8029698	8081091	8110118	8140865	8205289	8265116		8402542		84924
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35	197716	198053	199491	201220	202266	202540	202880	203051	204080	205390	206392	207259	208012	208406	208511	209131	209881	210416		211503	211736	2118
36	6344	6344	6537¦	6631	6707	6828	6940	7051	7126	7342	7563	7713	7866	7866	8082	8279	8463	8546	8809	8882	9000	91

	BA	BB	BC	BD	BE	BF	BG	ВН	BI	BJ	BK	BL	BM	BN	ВО	ВР	BQ	BR	BS	BT	BU	BV	BW	BX	BY	BZ	CA
1 3	3/10/20 3/	11/20	3/12/20 3	/13/20 3	3/14/20	3/15/20 3	3/16/20 3	/17/20 3	3/18/20 3/	19/20 3	/20/20 3	1/21/20	3/22/20	3/23/20 3	//24/20 3	/25/20 3	/26/20 3	3/27/20			/30/20 3	31/20	4/1/20	1/2/20 4	4/3/20	4/4/20	4/5/20 4
2	8	11	11	11	14	20	25	26	26	26	24	24	34	40	42	74	80	91	106	114	114	166	192	235	269	270	299
3	10	12	23	33	38	42	51	55	59	64	70	76	89	104	123	146	174	186	197	212	223	243	259	277	304	333	361
4	20	20		26	37	48	54	60	74	87	90	139	201	230	264	302	367	409	454	511	584	716	847	986	1171	1251	1320
5	1_	1	1	1	1	1	2	39	39	53	75	88	113	133	164	188	224	267	308	334	370	376		428	439	466	501
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7	0	0		0	0		0	0	0'	0	0	0	0	0	0	0	0	0	0	0,	0	0	0	0	0	0	0
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9	17	19		31	34	45	56	68	79	97	128	158	266	301	387	387	502	589	690	745	820	1054	1054	1133	1265	1451	1451
10	1	1	4	8	18	26	52	78	84	115	136	160	194	235	249	265	290	329	407	424	482	532	571	663	736	770	822
11	0	0 65		1	1 112	124	171	210	267	207	6	426	19	32	39	39	53	1405	71	77	78	2022	2102	2200	91	93	96
12	55		65	92		134	171	210	.1	307	353	436	669	669	818	1029	1219	1405	1617	1791	2032	2032		2298	2389	2493	2580
13	1 18	20	20	35	1 46	61	68	78	94	144	3 184	221	5 259	5 319	6 397	6 443	493	12 555	15 625	656	15 689	17 743	19 781	21 835	22 873	26 900	27 907
14	7	9		16	19	20	29	29	37	42	50	67	100	134	170	170	235	257	287	299	305	337	367	367	396	407	407
16	2	3		5	19 5		7	7	10	10	10	16	22	28	28	36	47	47	62	66	66	69	69	72	74	80	82
17	18	21	21	36	49	57	71	94	121	121	121	229	355	355	411	466	520	574	685	769:	821	917	968	1036	1085	1115	1135
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19	126	148	203	312	409	591	801	999	1225	1571	1943	2398	2909	3455	4073	4760	5483	6237	7293	8100	8717	9264		10486	11035	11473	
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22	110	195	195	195	210	214	214	228	256	278	285	305	334	377	392	419	458	466	476	499	515	567	569	643	672	688	700
23	3	3	3	3	3	5	8	10	14	17	20	25	27	33	39	39	44	48	48	48	49	51	54	56	61	70	88
24	0	0	0	0	0	0	0	2	2	5	5	6	14	17	18	18	18	24	26	33	33	34	34	46	51	52	56
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26	267	314	314	559	689	886	1058	1243	1486	1795	2257	2815	3401	3743	4269	4937	6235	7284	9134	10836	11899	12775	13964	15348	16770	18431	19691
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28	0	0	0	0	0	0	1	1	2 <sup>1</sup>	2	2	2	2	5	6	6	6	6	6	6	6	9	13	13	16	16	22
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31	5	7	11	13	18	24	25	26	38	63	89	93	126	136	166	176	191	237	258	323	368	420	459	533	579	624	654
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33	31	38	52	151	151	162	200	321	372	621	793	1021	1546	1924	2247	2554	2985	3417	3904	4256	4579	5717	6836	8044	9056	10360	11130
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35	4	7	7	23	41	51	52	67	92	94	127	163	187	201	218	242	264	293	331	346	359	399	422	457	485	503	531
		-				_																					
N295		V	f <sub>X</sub> ∑ ▼	=																							
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N295		vI.	f <sub>x</sub> ∑ <b>-</b> =																			•
	MG	MH	MI	МЈ	MK	ML	MM	MN	MO	MP	MQ	MR	MS	MT	MU	MV	MW	MX	MY	MZ	NA	NB -
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3	56254	56572	57146	57727	58316	58316	58991	59438	59623	60283	61008	61705	62378	63033	63595	63971	64627	65334	65994	66635	67216	676
4	98249	98631	98988	99311	99610	99897	100159	100408	100645	100873	101120	101382	101657	101913	102144	102369	102641	102860	103127	103381	103611	1038
5	7821	7875	7919	7983	8049	8117	8166	8192	8249	8308	8348	8348	8489	8586	8586	8586	8682	8818	8868	8946	9038	90
6	17240	17296	17371	17433	17553	17568	17608	17642	17684	17756	17864	17974	18066	18156	18193	18254	18343	18425	18613	18679	18765	188
7	0	0	0	0	0	0	0	0	0	0	0	0,	0	0	0	0	0	0	0	0	0,	
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10	157834	157948	158296	158878	159409	159738	159798	160027	160220	160544	160853	161054	161415	161794	162131	162288	162643	163128	163576	163972	164235	1645
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12	4872	4881	4906	4923	4928	4947	4958	4965	4973	4978	4984	4995	5001	5007	5018	5034	5041	5043	5045	5057	5066	50
13	73	74	74	74	75	75	81	81	81	87	87	88	90	90	90	90	91	93	93	93	93	
14	1246	1248	1250	1253	1253	1255	1255	1260	1262	1263	1265	1274	1274	1274	1278	1281	1283	1287	1290	1291	1293	12
15	572	572	575	576	580	580	580	583	581	582	582	585	587	587	588	588	590	590	591	593	593	5
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18	858	858	859	859	861	863	867	868	869	872	874	874¦	874	875	877	878	879	881	884	886	887	8
19	348103	349266	350963	353088	356063	358774	360777	362368	364003	365898	368190	371151	373237	375239	377537	379083	380470	382176	384337	385993	387529	3890
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22	91733	91935	92169	92425	92675	92913	93184	93478	93766	93995	94284	94633	95030	95317	95558	95879	96195	96470	96812	97020	97268	976
23	509148	510080	511261	512496	513510	514500	515184	516019	516929	517920	518898	519905	520690	521382	522453	523302	524020	524910	525723	526485	527063	5276
24	356	365	371	372	383	395	395	556	606	643	743	743	780	808	878	884	968	1007	1036	1036	1095	10
25	186747	188588	190404	192361	194284	196223	198125	199962	201831	203104	204958	206796	208601	210368	212201	213993	215724	217696	219663	221604	223537	2254
26	638877	639734	641411	644242	646496	648289	649169	650011	650887	652735	655732	658655	660703	662694	664263	665223	667322	670249	672886	675089	677209	6788
27	10561	10591	10668	10724	10776	10776	10807	10901	10938	11018	11108	11152	11202	11266	11303	11332	11366	11419	11456	11529	11529	115
28	3205	3205	3205	3251	3251	3251	3251	3251	3251	3304	3304	3304	3304	3304	3304	3363	3363	3413	3413	3413	3413	34
29	623	623	636	655	670	689	710	716	734	734	755	767	771	810	813	825	831	833	834	837	842	8
30	154843	155594	156887	158372	160124	160985	162055	162661	163671	165268	166981	168891	171154	172798	173896	175288	176761	178818	181016	183589	185680	1871
31	109691	109911	110454	110985	110985	112143	112143	112645	112645	113392	113392	113392	114920	115379	115633	115633	116200	116668	117011	117011	117011	1170
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33	7487155	7514592	7570963	7626563	7681032	7703971	7719324	7736514	7761553	7819636	7882143	7970112	8029698	8081091	8110118	8140865	8205289	8265116	8333445	8402542	8460987	84924
34	152	152	152	157	157	157	157	172	172	172	172	173	173	173	173	173	174	174	174	174	174	1
35	197716	198053	199491	201220	202266	202540	202880	203051	204080	205390	206392	207259	208012	208406	208511	209131	209881	210416	210951	211503	211736	2118
36	6344	6344	6537	6631	6707	6828	6940	7051	7126	7342	7563	7713	7866	7866	8082	8279	8463	8546	8809	8882	9000	91
							_															

			A				В			С	D		E	F	G	Н	1	J	K	L	М	N	0	Р	Q	R	S
	Ontario Prince Edwa	rd Island				Canada Canada				51.2538 46.5107		.3232	0	0	3	3 0	3 0	3	3	3	3 0	3	3 0	3 0		3 4 0 0	0
	)uebec	i u ioiaiiu				Canada				52.9399		5491	0 -	0 -	0	0-	$\frac{0}{0}$	0	0 -	$\frac{0}{0}$	<mark>0</mark> -	0		0 0		<u> </u>	0
	Repatriated		S		C	Canada							0	0	0	0	0	0	0	0	0	0	0	0	(	0 0	0
_	Saskatchew	an				Canada				52.9399			0	0	0	0	0	0	0	0	0	0	-	0		0 0	0
57	/ukon					Canada Central Af	frican R	enuhlic		64.2823		-135 .9394	0	0	0	0	0	0	0	0	0	0	0	0		0 0 0	0
59						Chad	iiicaii iv	phanic		15.4542		.7322	0	0	0	0	0	0	0	0	0	0		0		0 0	0
60					C	Chile				-35.6751	i -7	1.543	0	0	0	0	0	0	0	0	0	0		0			0
	\nhui					China				31.8257		.2264	1	9	15	39	60	70	106	152	200	237	297	340			530
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	Jilongqing Fujian					China				26.0789	_	.9874	1	5	10	18	35	59	80	84	101	120	144	159			205
	Gansu					China				35.7518	-	.2861	0	2	2	4	7	14	19	24	26	29		51			62
	Guangdong					China				23.3417		.4244	26	32	53	78	111	151	207	277	354	436		632			895
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	Guizhou Hainan					China				19.1959		.7453	4	5	8	19	22	33	40	43	46	29 <sub>1</sub> 52		64			99
_	łebei					China				39.549		.1306	1	1	2	8	13	18	33	48	65	82		104			135
	łeilongjiang					China				47.862		.7615	0	2	4	9	15	21	33	38	44	59	80	95			190
	lenan Iona Vona					China				37.8957		.9042	5	5	9	32 5	83	128	168	206	278	352	422	493			764
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_	liangsu					China				32.9711		9.455	1	5	9	18	33	47	70	99	129	168		236			341
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	Shanghai					China				31.202		.4491	9	16	20	33	40	53	66	96	112	135	169	182			243
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	РЈ	PK	PL	PM	PN	PO	PP	PQ	PR	PS	PT	PU	PV	PW	РХ	РУ	PZ	QA	QB	QC	QD
259	243935	244776	245405	245706	245923	246507	247254	248037	248782	249703	250565	251169	252171	254018	255308	256931	258335	260044	261177	263043	
260	2950603	2971633	2992694	3013122			3091282	3120013	3149094	3179115	3208173	-	3277880	3317182	3357988	3400296			3529601	3579185	
261	0	0 29844854	29903121	20020522	20000070	30039696	20127521	0 30194910	20271054	20224046	20201210	30447861	20510002	20570405	0 30656330	20720104	30794703			30964189	
262 1 263	40625	40651	40651	40671	40687	40719	40719	40734	40751	40767	40794	40820	40839	40867	40889	40924	40962	40962	41016	41023	41046
264	1553659	1569596	1584972	1596201	1604183		1630013	1646775	1665001	1682527	1694568	1703036	1713684	1725029	1742710	1762713			1807327	1820725	
265	434465	436625	438638	440355	442226	444398	446594	448637	450765	453069	455197	457071	459360	461444	463759	465939	468023	470136	472148	474136	476019
266	21	22	22	22				22	22	22	22	22	25	25	25	25				25	
267	740	767	773	789			840	880	914	947	1028	1136	1157	1217	1292	1292		1400		1469	
268 269	153 475	153 475	153 475	153 475				153 483	153 487	153 487	153 487	153 499	153 499	153 500	153 501	166 501		166 501		178 512	
270	0	0	0	0				0	0	0			0			0					
271	54	54	54	54				54	54	54	54	54	54	54		54	54	54			
272	4270	4270	4270	4270	4270		4271	4272	4273	4273	4273	4273	4274	4274		4275				4275	
273	821	821	821	821			821	821	821	821	821	821	821	821	821	821		821		821	
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276	20	20	20	20			20	20	20	20		20	20	20		20				20	
277	0	0	0,	0	0			0	0	0		0	0	0		0					
278	4	4	4	4	4		4	4	4	4	4	4	4	4	4	4		4	4	4	4
279	2253	2274	2290	2294	2294		2315	2315	2318	2325	2326	2327	2329	2329	2337	2344		2344	2344	2344	
280 281	4280882 76816	4285684 78401	4291271 79923	4296583 81537	4301925 84230	4307304 86007	4312908 87812	4319128 89458	4325315 92343	4329180 95278	4333042 97406	4337696 99584	4341736 102461	4345788 105549	4350266 108188	4353668 111568	4357091 113904	4359388 117757	4362150 119958	4364529 123063	
282	80971	81095	81339	81339	81446		81678	81816	92343 81960	82146	82340	82536	82682	82869	83050	83239		83623	83802	83935	84127
283	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
284	148208	149145	150306	151123			153315	154165	154905	155663	156655	157943	159149	160497	161751	162730		166123	167548	169074	
285	2570	2571	2572	2572	2575		2576	2579	2586	2586	2591	2594	2594	2603	2617	2620	2626	2631	2637	2648	
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288	3126	3217	3278	3418	3516		3703	3816	3900	3969	4033	4115	4247	4357	4531	4620		4798	4881	4975	
289	85889	86059	86273	86449	86535		86993	87318	87583	87583	87872	88012	88199	88418	88549	88730	88800	88930	89009	89071	89386
290	36611	36652	36662	36665	36684	36717	36749	36778	36805	36818	36822	36839	36839	36882	36896	36903	36911	36923	36934	36966	36984
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# **Project Description**

Analyse global COVID 19 data to understand the spread of the virus, examine growth rat compare the impact across different countries. By using data visualization techniques, you will create visual representations of the data to identify hotspots, analyse the effectiveness of miligation measures, and gain insights into the pandemic's impact. example, you might compare Infection rates in different regions track changes in mortality rates time. This project will provide you with hands-on experience in data exploration, visualization, and analysing real-world health data.

### Installing all the library files

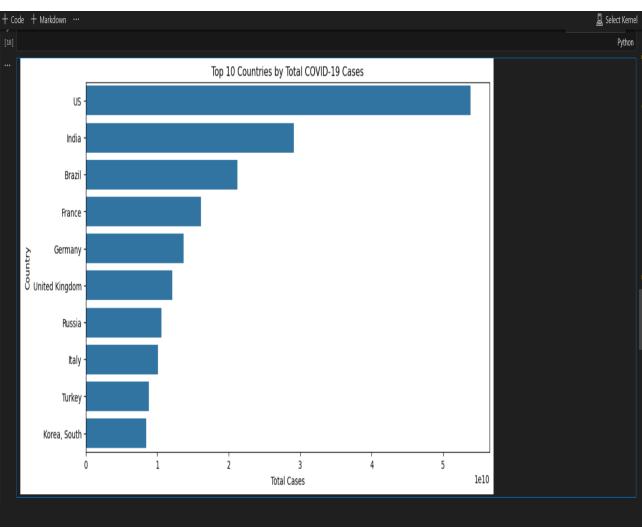
```
pip install pandas seaborn matplotlib
ment already satisfied: pandas in /home/ragnar/.var/app/org.jupyter.JupyterLab/config/jupyterlab-desktop/envs/env_1/lib/python3.12/site-packages (2.2.2)
ient already satisfied: seaborn in /home/ragnar/.var/app/org.jupyter.JupyterLab/config/jupyterlab-desktop/envs/env_1/lib/python3.12/site-packages (0.13.2)
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nent already satisfied: pytz>=2020.1 in /home/ragnar/.var/app/org.jupyter.JupyterLab/config/jupyterlab-desktop/envs/env_1/lib/python3.12/site-packages (from pandas) (2024.1)
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nent already satisfied: contourpy>=1.0.1 in /home/ragnar/.var/app/org.jupyter.JupyterJab/config/jupyterlab-desktop/envs/env_1/lib/python3.12/site-packages (from matplotlib) (1.2.1)
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nent already satisfied: pyparsing>=2.3.1 in /home/ragnar/.var/app/org.jupyter.JupyterLab/config/jupyterlab-desktop/envs/env_1/lib/python3.12/site-packages (from matplotlib) (3.1.2)
ient already satisfied: six>=1.5 in /home/ragnar/.var/app/org.jupyter.JupyterLab/config/jupyterLab-desktop/envs/env_1/lib/python3.12/site-packages (from python-dateutil>=2.8.2->pandas)
```

## Loading the Dataset

ии mav need to restart the kernel to use undated mackages.

```
D
      data = pd.read csv(url)
      print(data.head())
      print(data.columns)
      print(data.isnull().sum())
     Province/State Country/Region
                                                Long 1/22/20 1/23/20 \
                    Afghanistan 33.93911 67.709953
               NaN
                         Albania 41.15330 20.168300
               NaN
               NaN
                          Algeria 28.03390 1.659600
               NaN
                          Andorra 42.50630 1.521800
                          Angola -11.20270 17.873900
      1/24/20 1/25/20 1/26/20 1/27/20 ... 2/28/23 3/1/23 3/2/23 3/3/23
                                                    209340 209358 209362
                                                    334408
                                                                   334427
                                    0 ... 271441
                                                            271463 271469
                                                    271448
                                             47866
                                                     47875
                                                            47875
                                                                   47875
                                             105255 105277 105277 105277
```

```
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                                                                                                                                                                          Select Kern
          '1/24/20', '1/25/20', '1/26/20', '1/27/20',
  3/8/23
  Length: 1147, dtype: int64
  Output is truncated. View as a scrollable element or open in a text editor. Adjust cell output settings...
 Data Analysis
     non date columns = ['Province/State', 'Country/Region', 'Lat', 'Long']
     date columns = [col for col in data.columns if col not in non date columns]
     data[date_columns] = data[date_columns].apply(pd.to_numeric, errors='coerce')
      country_data = data.groupby('Country/Region')[date_columns].sum()
     total_cases = country_data.sum(axis=1).reset_index()
      total_cases.columns = ['Country/Region', 'Total Cases']
     # Display the top 10 countries by total cases
     print(total_cases.sort_values(by='Total Cases', ascending=False).head(10))
                                                                                                                                                                               Python
          Country/Region Total Cases
                    US 53813184406
                  India 29131119694
     80
                 Brazil 21182690594
                 France 16105911886
                 Germany 13686043720
     190 United Kingdom 12118271679
                Russia 10578569842
     147
                  Italy 10083161678
     184
                 Turkey 8840742699
     94 Korea, South 8467888968
    Data Visualization
                                                                                                                                                                    ▷ ▷ □ □
         import matplotlib.pyplot as plt
         top_10_countries = total_cases.sort_values(by='Total Cases', ascending=False).head(10)
        plt.figure(figsize=(12, 6))
         sns.barplot(x='Total Cases', y='Country/Region', data=top_10_countries)
        plt.title('Top 10 Countries by Total COVID-19 Cases')
        plt.xlabel('Total Cases')
        plt.ylabel('Country')
         plt.show()
```



```
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                                                                                                                                                                                      Pyth
       countries = ['US', 'India', 'Brazil', 'Russia', 'France']
       data_melted = data.melt(id_vars=['Province/State', 'Country/Region', 'Lat', 'Long'],
                               var_name='Date', value_name='Cases')
       data_melted['Date'] = pd.to_datetime(data_melted['Date'])
       # Filter data for selected countries
       df selected = data melted[data melted['Country/Region'].isin(countries)]
       # Aggregate cases by date and country
       df_selected_agg = df_selected.groupby(['Date', 'Country/Region'])['Cases'].sum().reset_index()
       plt.figure(figsize=(14, 8))
       sns.lineplot(x='Date', y='Cases', hue='Country/Region', data=df_selected_agg)
       plt.xlabel('Date')
       plt.ylabel('Total Cases')
       plt.xticks(rotation=45)
       plt.show()
    /run/user/1000/app/org.jupyter.JupyterLab/ipykernel 385/529425661.py:9: UserWarning: Could not infer format, so each element will be parsed individually, falling back to `dateutil`.
      data_melted['Date'] = pd.to_datetime(data_melted['Date'])
```



