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```
#####
#### TS-CONFIRMED Cases -- Data dated: 2020-12-20 :: 2020-12-21 13:02:31
#####
Number of Countries/Regions reported: 191
Number of Cities/Provinces reported: 84
Unique number of distinct geographical locations combined: 271
```

Worldwide ts-confirmed Totals: 76823486

	Country.Region	Province.State	Totals	GlobalPerc	LastDayChange	t-2	t-3	t-7	t-14	t-30
1	US		17844690	23.23	189099	196295	249709	192846	189159	180297
2	India		10055560	13.09	24337	26624	25152	22065	26567	45209
3	Brazil		7238600	9.42	25445	50177	52544	25193	20371	32622
4	Russia		2821125	3.67	28510	27772	28116	26902	27798	24538
5	France		2471458	3.22	12619	17102	15674	3063	3411	17641
6	United Kingdom		2040147	2.66	35928	27052	28507	20263	14718	19875
7	Turkey		2024601	2.64	20316	22195	26410	29617	32137	5532
8	Italy		1953185	2.54	15102	16305	15401	12025	13679	34764
9	Spain		1797236	2.34	0	0	11815	21309	17681	0
10	Argentina		1541285	2.01	4116	5795	7002	5062	3199	7140
11	Germany		1514962	1.97	6444	21679	32830	6451	5456	13872
12	Colombia		1507222	1.96	11160	13990	13277	8742	5997	7049
13	Mexico		1320545	1.72	6870	12129	12248	5930	6399	6719
14	Poland		1202700	1.57	8590	11246	11010	4896	4421	24213
15	Iran		1158384	1.51	6312	6421	7121	7501	10827	12931

Global Perc. Average: 0.37 (sd: 1.77)

Global Perc. Average in top 15 : 4.9 (sd: 6.03)

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#####
#### TS-DEATHS Cases -- Data dated: 2020-12-20 :: 2020-12-21 13:02:32
#####
Number of Countries/Regions reported: 191
Number of Cities/Provinces reported: 84
Unique number of distinct geographical locations combined: 271
```

Worldwide ts-deaths Totals: 1693205

	Country.Region	Province.State	Totals	Perc	LastDayChange	t-2	t-3	t-7	t-14	t-30
1	US		317668	1.78	1509	2571	2814	1484	1419	1450
2	Brazil		186764	2.58	408	706	823	433	376	376
3	India		145810	1.45	333	341	347	354	385	501
4	Mexico		118202	8.95	326	627	762	345	357	550
5	Italy		68799	3.52	352	553	674	491	528	692
6	United Kingdom		67401	3.30	326	534	489	232	189	340
7	France		60186	2.44	130	187	610	371	366	252
8	Iran		53625	4.63	177	175	178	251	284	431
9	Russia		50242	1.78	498	574	602	442	447	462
10	Spain		48926	2.72	0	0	149	389	394	0
11	Argentina		41813	2.71	50	91	138	275	118	112
12	Colombia		40475	2.69	207	249	232	142	187	175
13	Peru		37034	3.72	176	0	0	133	43	103
14	Germany		26400	1.74	229	417	727	528	445	143

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15 Poland 25397 2.11 143 483 426 96 92 574

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#####
#### TS-RECOVERED Cases -- Data dated: 2020-12-20 :: 2020-12-21 13:02:32
#####
Number of Countries/Regions reported: 191
Number of Cities/Provinces reported: 68
Unique number of distinct geographical locations combined: 256
```

Worldwide ts-recovered Totals: 43296482

	Country.Region	Province.State	Totals	LastDayChange	t-2	t-3	t-7	t-14	t-30
1	India		9606111	25709	29690	29885	34477	39045	43493
2	Brazil		6408517	19579	65983	21408	19700	30869	6293
3	Russia		2253826	20766	25662	25702	18527	18649	25545
4	Turkey		1800286	21218	25516	31945	28164	5017	3233
5	Colombia		1373332	10789	8522	10202	6633	10185	6342
6	Argentina		1368346	5729	5862	4199	4803	6004	9234
7	Italy		1261626	12156	23384	22272	22456	19638	19502
8	Germany		1123725	16610	11133	17038	21370	20416	13211
9	Mexico		978002	6887	8718	8635	9073	7369	0
10	Poland		938269	10546	12147	12227	10260	15726	25275
11	Peru		930410	0	2191	4099	2017	0	2436
12	Iran		885054	9111	10469	8961	10961	12157	7111
13	South Africa		793914	6132	3964	3505	1735	970	744
14	Ukraine		602993	6775	13761	13257	5189	5324	8465
15	Chile		555956	1623	2044	1089	1706	1478	1657

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#####
#### AGGREGATED Data -- ORDERED BY CONFIRMED Cases -- Data dated: 2020-12-21 :: 2020-12-21 13:02:33
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Number of Countries/Regions reported: 190
Number of Cities/Provinces reported: 575
Unique number of distinct geographical locations combined: 3964

	Location	Confirmed	Perc.Confirmed	Deaths	Perc.Deaths	Recovered	Perc.Recovered	Active	Perc.Active
1	France	2471458	3.22	60186	2.44	160288	6.49	2250984	91.08
2	Turkey	2024601	2.64	18097	0.89	1800286	88.92	206218	10.19
3	Maharashtra, India	1896518	2.47	48746	2.57	1783905	94.06	63867	3.37
4	England, United Kingdom	1743893	2.27	58807	3.37	0	0.00	1685086	96.63
5	Argentina	1541285	2.01	41813	2.71	1368346	88.78	131126	8.51
6	Sao Paulo, Brazil	1384100	1.80	45029	3.25	1205561	87.10	133510	9.65
7	Poland	1202700	1.57	25397	2.11	938269	78.01	239034	19.87
8	Iran	1158384	1.51	53625	4.63	885054	76.40	219705	18.97
9	South Africa	921922	1.20	24691	2.68	793914	86.12	103317	11.21
10	Karnataka, India	909469	1.18	12009	1.32	882944	97.08	14516	1.60
11	Andhra Pradesh, India	878723	1.14	7076	0.81	867445	98.72	4202	0.48
12	Tamil Nadu, India	806891	1.05	11983	1.49	785315	97.33	9593	1.19

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13	Moscow, Russia	735900	0.96	10394	1.41	567743	77.15	157763	21.44
14	Kerala, India	705869	0.92	2816	0.40	641285	90.85	61768	8.75
15	Indonesia	664930	0.87	19880	2.99	541811	81.48	103239	15.53

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AGGREGATED Data -- ORDERED BY DEATHS Cases -- Data dated: 2020-12-21 :: 2020-12-21 13:02:33

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Number of Countries/Regions reported: 190
 Number of Cities/Provinces reported: 575
 Unique number of distinct geographical locations combined: 3964

	Location	Confirmed	Perc.Confirmed	Deaths	Perc.Deaths	Recovered	Perc.Recovered	Active	Perc.Active
1	France	2471458	3.22	60186	2.44	160288	6.49	2250984	91.08
2	England, United Kingdom	1743893	2.27	58807	3.37	0	0.00	1685086	96.63
3	Iran	1158384	1.51	53625	4.63	885054	76.40	219705	18.97
4	Maharashtra, India	1896518	2.47	48746	2.57	1783905	94.06	63867	3.37
5	Sao Paulo, Brazil	1384100	1.80	45029	3.25	1205561	87.10	133510	9.65
6	Argentina	1541285	2.01	41813	2.71	1368346	88.78	131126	8.51
7	Poland	1202700	1.57	25397	2.11	938269	78.01	239034	19.87
8	South Africa	921922	1.20	24691	2.68	793914	86.12	103317	11.21
9	Rio de Janeiro, Brazil	406820	0.53	24473	6.02	372768	91.63	9579	2.35
10	Lombardia, Italy	459218	0.60	24379	5.31	366058	79.71	68781	14.98
11	Indonesia	664930	0.87	19880	2.99	541811	81.48	103239	15.53
12	Turkey	2024601	2.64	18097	0.89	1800286	88.92	206218	10.19
13	Mexico, Mexico	133179	0.17	17569	13.19	0	0.00	115610	86.81
14	Lima, Peru	441635	0.58	16553	3.75	0	0.00	425082	96.25
15	Ciudad de Mexico, Mexico	290051	0.38	15432	5.32	0	0.00	274619	94.68

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AGGREGATED Data -- ORDERED BY RECOVERED Cases -- Data dated: 2020-12-21 :: 2020-12-21 13:02:33

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Number of Countries/Regions reported: 190
 Number of Cities/Provinces reported: 575
 Unique number of distinct geographical locations combined: 3964

	Location	Confirmed	Perc.Confirmed	Deaths	Perc.Deaths	Recovered	Perc.Recovered	Active	Perc.Active
1	Turkey	2024601	2.64	18097	0.89	1800286	88.92	206218	10.19
2	Maharashtra, India	1896518	2.47	48746	2.57	1783905	94.06	63867	3.37
3	Argentina	1541285	2.01	41813	2.71	1368346	88.78	131126	8.51
4	Sao Paulo, Brazil	1384100	1.80	45029	3.25	1205561	87.10	133510	9.65
5	Poland	1202700	1.57	25397	2.11	938269	78.01	239034	19.87
6	Iran	1158384	1.51	53625	4.63	885054	76.40	219705	18.97
7	Karnataka, India	909469	1.18	12009	1.32	882944	97.08	14516	1.60
8	Andhra Pradesh, India	878723	1.14	7076	0.81	867445	98.72	4202	0.48
9	South Africa	921922	1.20	24691	2.68	793914	86.12	103317	11.21
10	Tamil Nadu, India	806891	1.05	11983	1.49	785315	97.33	9593	1.19
11	Kerala, India	705869	0.92	2816	0.40	641285	90.85	61768	8.75
12	Delhi, India	617005	0.80	10277	1.67	596580	96.69	10148	1.64
13	Moscow, Russia	735900	0.96	10394	1.41	567743	77.15	157763	21.44
14	Uttar Pradesh, India	574631	0.75	8196	1.43	549190	95.57	17245	3.00

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15	Indonesia	664930	0.87	19880	2.99	541811	81.48	103239	15.53						
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#####															
#### AGGREGATED Data -- ORDERED BY ACTIVE Cases -- Data dated: 2020-12-21 :: 2020-12-21 13:02:33															
#####															
Number of Countries/Regions reported: 190															
Number of Cities/Provinces reported: 575															
Unique number of distinct geographical locations combined: 3964															

	Location	Confirmed	Perc.Confirmed	Deaths	Perc.Deaths	Recovered	Perc.Recovered	Active	Perc.Active						
1	France	2471458	3.22	60186	2.44	160288	6.49	2250984	91.08						
2	England, United Kingdom	1743893	2.27	58807	3.37	0	0.00	1685086	96.63						
3	Los Angeles, California, US	623670	0.81	8875	1.42	0	0.00	614795	98.58						
4	Lima, Peru	441635	0.58	16553	3.75	0	0.00	425082	96.25						
5	Cook, Illinois, US	371088	0.48	7724	2.08	0	0.00	363364	97.92						
6	Madrid, Spain	374114	0.49	11637	3.11	40736	10.89	321741	86.00						
7	Serbia	300062	0.39	2686	0.90	0	0.00	297376	99.10						
8	Catalonia, Spain	329175	0.43	8511	2.59	26203	7.96	294461	89.45						
9	Maricopa, Arizona, US	279885	0.36	4684	1.67	0	0.00	275201	98.33						
10	Ciudad de Mexico, Mexico	290051	0.38	15432	5.32	0	0.00	274619	94.68						
11	Miami-Dade, Florida, US	274117	0.36	4066	1.48	0	0.00	270051	98.52						
12	Poland	1202700	1.57	25397	2.11	938269	78.01	239034	19.87						
13	Andalusia, Spain	252256	0.33	4723	1.87	10671	4.23	236862	93.90						
14	Iran	1158384	1.51	53625	4.63	885054	76.40	219705	18.97						
15	Harris, Texas, US	219265	0.29	3242	1.48	0	0.00	216023	98.52						
=====															
	Confirmed	Deaths	Recovered	Active											
Totals	76798584	1673592	41383291	NA											
Average	19374.01	422.2	10439.78	NA											
Standard Deviation	97572.13	2485.07	73261.43	NA											
* Statistical estimators computed considering 3964 independent reported entries															

***** OVERALL SUMMARY*****															

****	Time Series Worldwide TOTS ****														
	ts-confirmed	ts-deaths	ts-recovered												
	76823486	1693205	43296482												
	2.2%	56.36%													
****	Time Series Worldwide AVGS ****														
	ts-confirmed	ts-deaths	ts-recovered												
	283481.5	6247.99	169126.88												
	2.2%	59.66%													
****	Time Series Worldwide SDS ****														
	ts-confirmed	ts-deaths	ts-recovered												
	1360225.04	26620.31	764413.53												
	1.96%	56.2%													

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* Statistical estimators computed considering 271/271/256 independent reported entries per case-type
