

SQL Covid19 Analysis

Input tables:

- Covid19_tests_performed
- covid19_basic_differences
- lookup_table
- economies
- religions
- life_expectancy
- countries

TABLE t_stepan_holub_projekt_SQL_final

This final table may take longer to create (3 minutes).

PRIMARY KEYS:

date, country

	🕒 date 📄	📄 country 📄
1	2020-01-24	Switzerland
2	2020-01-25	Switzerland
3	2020-01-27	Denmark
4	2020-01-27	Switzerland
5	2020-01-28	Switzerland

COVID VARIABLES:

Column *positivity_rate* represents proportion of positive tests out of all tests performed.

Column *positive_per_mil* represents number of covid19 positive persons in one million citizens.

123 positivity_rate 📄	123 positive_per_mil 📄
0	0
0	0
0	0
0	0
0	0

DATE VARIABLES:

Weekend is represented by bool: 0 is weekday, 1 is weekend.

Season is represented by number 0 is spring, 3 is winter.

	123 weekend 📄	123 season 📄
1	0	3
2	1	3
3	0	3
4	0	3
5	0	3

COUNTRY VARIABLES:

These columns contain information about given country:

Population density, GDP per capita, Gini coefficient, mortality under 5 years and median age in 2018.

	123 population_density	123 GDP_per_capita	123 gini	123 mortality_under5	123 median_age_2018
1	215.52	83,093.19	33.1	4	42.7
2	215.52	83,093.19	33.1	4	42.7
3	138.07	65,867	28.2	3.8	42
4	215.52	83,093.19	33.1	4	42.7
5	215.52	83,093.19	33.1	4	42.7

Religion overview shows percentage of each religion for given country.

	123 unaffiliated_religions_pct	123 hinduism_pct	123 buddhism_pct	123 folk_religions_pct	123 other_religions_pct	123 judaism_pct
1	22.81	0.51	0.63	0	0.13	0.25
2	22.81	0.51	0.63	0	0.13	0.25
3	12.01	0.53	0.35	0	0	0
4	22.81	0.51	0.63	0	0.13	0.25
5	22.81	0.51	0.63	0	0.13	0.25

Column *le_diff_1965_2015* shows change of life expectancy between years 1965 and 2015.

	123 le_diff_1965_2015
1	11.08
2	11.08
3	7.84
4	11.08
5	11.08

WEATHER VARIABLES:

Day temperature (*day_temp_cls*) is an average temperature from hours: '06:00', '09:00', '12:00', '15:00', '18:00'.

Rainy hours (*rainy_hours*) are hours when rain is greater than 0.3 mm/h.

Gusts (*gust_km_h*) are maximum speed of gusts during the day.

	123 day_temp_cls	123 rainy_hours	123 gust_km_h
1	3.4	0	9
2	3.2	0	8
3	5	3	25
4	4.6	3	11
5	4	21	14

TABLE t_stepan_holub_tests

Country names are converted to those used in table *covid19_basic_differences*.

	🕒 date 📈	🌐 country 📈	123 tests_performed 📈
1	2020-02-25	Austria	[NULL]
2	2020-02-26	Austria	103
3	2020-02-27	Austria	126
4	2020-02-28	Austria	316
5	2020-02-29	Austria	886

TABLE t_stepan_holub_covid

Name of country 'Czechia' changed to 'Czech Republic'. Column *positivity_rate* represents proportion of positive tests out of all tests performed. Column *positive_per_mil* represents number of covid19 positive persons in one million citizens.

	🕒 date 📈	🌐 country 📈	123 positivity_rate 📈	123 positive_per_mil 📈
1	2020-01-23	Mexico	0	0
2	2020-01-23	Thailand	0	0
3	2020-01-23	US	0	0
4	2020-01-24	Mexico	0	0
5	2020-01-24	Switzerland	0	0
6	2020-01-24	Thailand	0.05	0.01
7	2020-01-25	Mexico	0	0
8	2020-01-25	Switzerland	0	0
9	2020-01-25	Thailand	0.04	0.01
10	2020-01-26	Mexico	0	0

TABLE t_stepan_holub_economies

Country names are converted to names from table *covid19_basic_differences*.

	🌐 country 📈	123 year 📈	123 GDP 📈	123 population 📈	123 gini 📈	123 mortality_under5 📈
1	Albania	2,017	13,977,387,390.5945	2,873,457	33.2	9.4
2	Albania	2,016	13,465,406,059.6498	2,876,101	33.7	9.4
3	Albania	2,015	13,033,375,121.5884	2,880,703	32.9	9.6
4	Albania	2,014	12,750,473,701.7819	2,889,104	34.6	9.9
5	Albania	2,012	12,403,877,841.0321	2,900,401	29	11.2
6	Albania	2,008	11,127,823,665.7504	2,947,314	30	15.8
7	Albania	2,005	9,223,202,583.88038	3,011,487	30.6	20
8	Albania	2,002	7,849,398,816.77983	3,051,010	31.7	24.4
9	Albania	1,996	5,923,796,791.7011	3,168,033	27	32.6
10	Algeria	2,011	165,882,322,519.501	36,661,438	27.6	26.7

TABLE t_stepan_holub_gini

In input data (table *economies*) some gini values are missing. This table stores the most recent value of gini indicator.

	ABC country	123 gini
1	Albania	33.2
2	Algeria	27.6
3	Angola	51.3
4	Argentina	42.9
5	Armenia	29.9

TABLE t_stepan_holub_economies_2019

Returns values from year 2019 from table *t_stepan_holub_economies*.

	ABC country	123 GDP	123 population	123 mortality_under5
52	Algeria	202,404,450,626.838	43,053,054	23.3
53	American Samoa	522,466,367.713004	55,312	[NULL]
54	Andorra	3,545,618,454.19594	77,146	3
55	Angola	99,013,511,554.0281	31,825,299	74.7
56	Antigua and Barbuda	1,499,945,610.88944	97,115	6.6

TABLE t_stepan_holub_religions

Table contains percentage of each religion. Population sum is calculated as a sum of all religion groups. Country names are converted to names from table *covid19_basic_differences*.

	ABC country	123 christianity_pct	123 islam_pct	123 unaffiliated_religions_pct	123 hinduism_pct
1	Afghanistan	0.1	99.8	0	0.02
2	Albania	16.82	82.24	0.93	0
3	Algeria	0.17	97.96	1.84	0
4	American Samoa	100	0	0	0
5	Andorra	100	0	0	0

123 buddhism_pct	123 folk_religions_pct	123 other_religions_pct	123 judaism_pct
0	0	0.07	0
0	0	0	0
0	0.02	0	0
0	0	0	0
0	0	0	0

TABLE t_stepan_holub_le_diff

Table contains the difference of life expectancy between years 1965 and 2015.

	ABC country	123 le_diff_1965_2015
1	Afghanistan	28.43
2	Africa	18.09
3	Albania	12.18
4	Algeria	27.7
5	American Samoa	7.92

TABLE t_stepan_holub_weather

Day temperature is an average temperature from hours: '06:00', '09:00', '12:00', '15:00', '18:00'. Rainy hours are hours when rain is greater than 0.3 mm/h. Gusts are maximum speed of gusts during the day.

	country	date	123 day_temp_cls	123 rainy_hours	123 gust_km_h
1	Albania	2020-01-01	7.6	0	7
2	Albania	2020-01-02	6.8	0	20
3	Albania	2020-01-03	7.6	0	10
4	Albania	2020-01-04	8.4	0	5
5	Albania	2020-01-05	5.4	0	6