SQL Covid19 Analysis

Input tables:

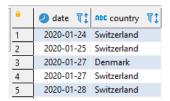
- Covid19 tests performed
- covid19_basic_differences
- lookup_table
- economies
- religions
- life expectancy
- countries

TABLE t_stepan_holub_projekt_SQL_final

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

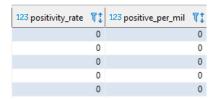
PRIMARY KEYS:

date, country



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.



DATE VARIABLES:

Weekend is represented by bool: 0 is weekday, 1 is weekend. Season is represented by number 0 is spring, 3 is winter.

<u>-</u>	123 weekend	T‡	123 season	T:
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.

<u> </u>	123 population_density 🏋	123 GDP_per_capita 🏋🛟	123 gini 🏋 🔭	123 mortaliy_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.

<u>-</u>	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.

<u> </u>	123 le_diff_1965_2015 🎖 📜
1	11.08
2	11.08
3	7.84
4	11.08
5	11.08

WEATHER WARIABLES:

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.

<u> </u>	123 day_temp_cls 🏻 🎖	‡	123 rainy_hours	V:	123 gust_km_h	T:
1	3.4	4		0		9
2	3.2	2		0		8
3	!	5		3		25
4	4.0	6		3		11
5	4	4		21		14

Engeto Data Academy Štěpán Holub

TABLE t_stepan_holub_tests

Country names are converted to those used in table covid19_basic_differences.

<u> </u>	② date \(\nabla\frac{1}{2}\)	ABC 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.

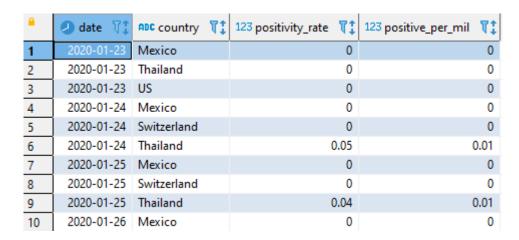


TABLE t_stepan_holub_economies

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

<u> </u>	ABC country ∏‡	123 year 📆	123 GDP \(\frac{1}{4}\)	123 population 🏋🛟	123 gini 🏋 🔭	123 mortaliy_under5	71
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	2	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.

<u> </u>	asc country ☐‡	123 gini 🏋 🔭
1	Albania	33.2
2	Algeria	27.6
3	Angola	51.3
4	Argentina	42.9
5	Armenia	29.9

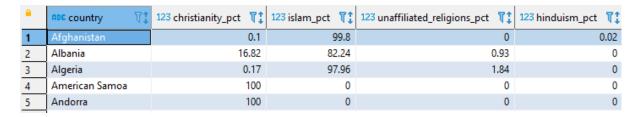
TABLE t_stepan_holub_economies_2019

Returns values from year 2019 from table *t_stepan_holub_economies*.

<u> </u>	ABC country	123 GDP 📆	123 population 🏋‡	123 mortaliy_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*.



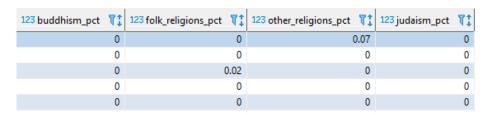


TABLE t_stepan_holub_le_diff

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

<u> </u>	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', '18:00'. Rainy hours are hours when rain is greater than 0.3 mm/h. Gusts are maximum speed of gusts during the day.

<u> </u>	ABC country \(\frac{1}{4}\)	② date އ	123 day_temp_cls 🏋靠	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