SQL Covid19 Analysis

**Input tables:**

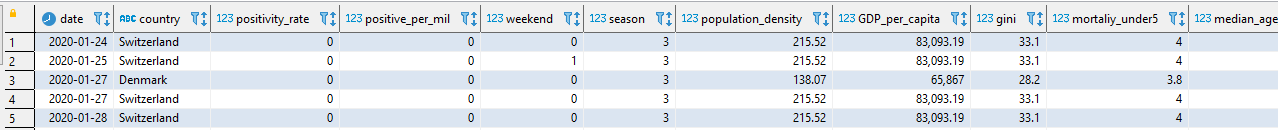
* Covid19\_tests\_performed
* covid19\_basic\_differences
* lookup\_table
* economies
* religions
* life\_expectancy
* countries

**TABLE t\_stepan\_holub\_projekt\_SQL\_final**

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

**PRIMARY KEYS:**

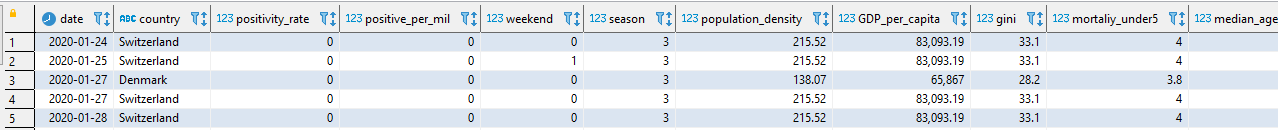
*date, country*



**COVID VARIABLES:**

Column *positivity\_rate* represents proportion of positive tests out of all tests performed.

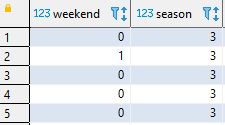
Column *positive\_per\_mil* represents number of covid19 positive persons in one million citizens.



**DATE VARIABLES:**

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

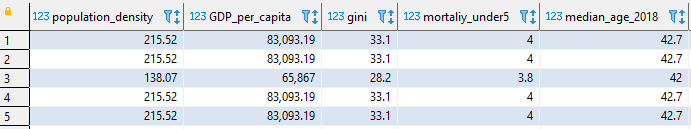
Season is represented by number 0 is spring, 3 is winter.



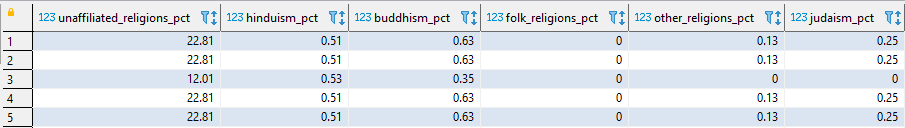
**COUNTRY VARIABLES:**

These columns contain information about given country:

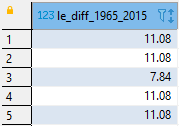
Population density, GDP per capita, Gini coefficient, mortality under 5 years and median age in 2018.



Religion overview shows percentage of each religion for given country.



Column *le\_diff\_1965\_2015* shows change of life expectancy between years 1965 and 2015.

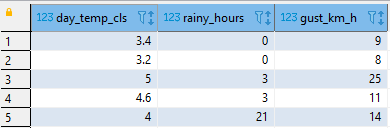


**WEATHER WARIABLES:**

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

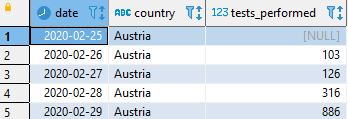
Rainy hours (*rainy\_hours*)are hours when rain is greater than 0.3 mm/h.

Gusts (*gust\_km\_h*)are maximum speed of gusts during the day.



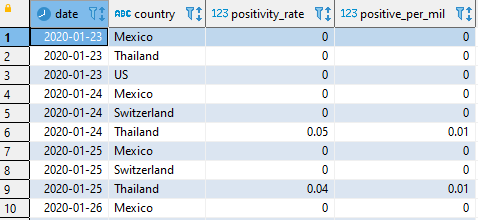
**TABLE t\_stepan\_holub\_tests**

Country names are converted to those used in table *covid19\_basic\_differences.*



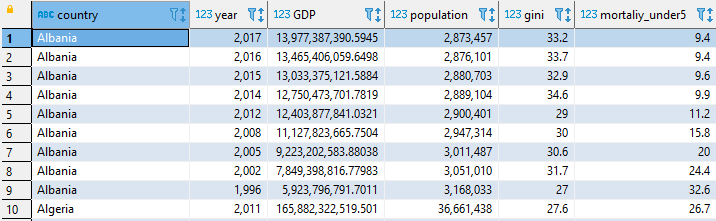
**TABLE t\_stepan\_holub\_covid**

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.



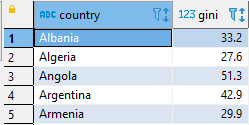
**TABLE t\_stepan\_holub\_economies**

Country names are converted to names from table *covid19\_basic\_differences*.



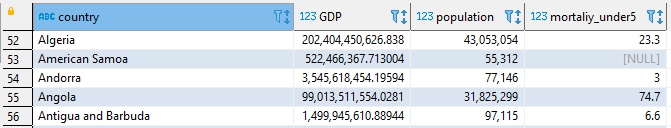
**TABLE t\_stepan\_holub\_gini**

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



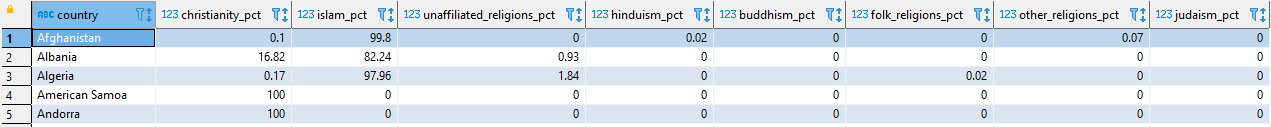
**TABLE t\_stepan\_holub\_economies\_2019**

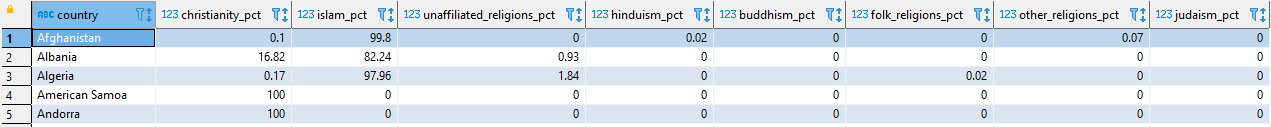
Returns values from year 2019 from table *t\_stepan\_holub\_economies*.



**TABLE t\_stepan\_holub\_religions**

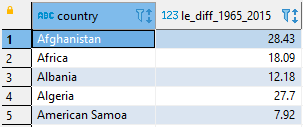
Table contains percentage of each religion. Population sum is calculated as a sum of all religion groups. Country names are converted to names from table *covid19\_basic\_differences*.





**TABLE t\_stepan\_holub\_le\_diff**

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



**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.

