##priprava dat

**SELECT**

country,

**date**,

confirmed

**FROM** covid19\_basic\_differences cbd

ordet **by** **date**

**CREATE** **VIEW** v\_Helena\_help **as**

**SELECT**

country,

**date**,

confirmed,

**WEEKDAY**(**date**) **AS** help

**from** covid19\_basic\_differences cbd

#seasons 0-jaro,1-leto,2-podzim,3-zima (poznamka - script neni flexibilni pro vsechny roky, ale proste jsem ho nenasla :-(

#VYSLEDNA TABULKA PRO 1) Časové proměnné + 2) population a median age 2018

**CREATE** **VIEW** v\_Helena\_priprava1 **as**

**WITH** t\_Helena\_helphelp **as** (

**SELECT**

\*,

**SUBSTRING**(**date**,1,4) **as** **year**,

**case** **when** help <=4 **THEN** 'week'

**when** help >=5 **THEN** 'weekend'

**end** **as** "week\_vs\_weekend"

**from** t\_Helena\_help

**order** **by** country

),

t\_Helena\_obdobihelp **as** (

**SELECT**

country,

**date**,

**CASE** **WHEN** **date** >= '2020-03-21' **then** '0'

**WHEN** **date** >= '2021-03-21' **then** '0'

**WHEN** **date** >= '2020-06-21' **then** '1'

**WHEN** **date** >= '2021-06-21' **then** '1'

**WHEN** **date** >= '2020-09-23' **then** '2'

**WHEN** **date** >= '2021-09-23' **then** '2'

**WHEN** **date** >= '2020-01-01' **then** '3'

**WHEN** **date** >= '2021-01-01' **then** '3'

**END** **AS** seasons

**from** covid19\_basic\_differences cbd

),

v\_Helena\_priprava **as** (

**SELECT**

th.country, th.**date**, th.confirmed, th.week\_vs\_weekend, th.**year**, toh.seasons

**From** t\_Helena\_helphelp **as** th

**LEFT** **JOIN** t\_Helena\_obdobihelp **as** toh

**ON** th.country = toh.country

**AND** th.**date** = toh. **date**)

**SELECT** vhp.\*, cbd.population\_density, cbd.median\_age\_2018

**from** v\_Helena\_priprava **as** vhp

**LEFT** **JOIN** countries **as** cbd

**on** vhp.country = cbd.country

#\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

#% podil nabozenstvi

#na zaklade analyzy dat jsem vybrala rok 2010

**CREATE** **VIEW** v\_Helena\_4 **as**

**SELECT** c.country , c.population , r.religion , r.population **as** help\_population

**FROM** countries c

**JOIN** religions r

**ON** c.country = r.country

**AND** r.**year** = 2010

# pomocna tabulka pro religion

**CREATE** **VIEW** v\_Helena\_religion\_new **as**

**SELECT**

\*,

**Round**((help\_population/population)\*100) **as** 'religion\_in\_perc'

**FROM** t\_Helena\_4

**GROUP** **BY** country, religion

#ocistena vysledna tabulka o data v country (jako zaklad brana tabulka covid19) - VYSLEDNA TABULKA PRO RELIGION

**CREATE** **VIEW** v\_Helena\_religion\_update\_new **as**

**SELECT** \*,

**CASE** **WHEN** country = 'Cape Verde' **THEN** 'Cabo Verde'

**WHEN** country = 'Czech Republic' **THEN** 'Czechia'

**WHEN** country = 'South Korea' **THEN** 'Korea, South'

**WHEN** country = 'Russian Federation' **THEN** 'Russia'

**WHEN** country = 'United States' **THEN** 'US'

**ELSE** country **end** **as** country\_updated

**FROM** v\_Helena\_religion\_new

**SELECT** \*,

**max**(religion\_in\_perc)

**from** v\_Helena\_religion\_new

**group** **by** country

#PROBLEM 1 - netusim, jak dostat spravnou tabulku ohledne max religion in perc. Stale se mi vraci spatna cisla

#\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

#rozdily mezi ocekavanou dobou doziti 1965 a 2015 - life\_expectancy

**CREATE** **view** v\_Helena\_life\_expectancy **as**

**SELECT** country, vlec.

life\_expectancy\_2015 - life\_expectancy\_1965 **AS** life\_expect\_diff

**FROM** v\_life\_expectancy\_comparison vlec

#vysledna tabulka pro life expectancy aktualizovana ohledne dat ve sloupci country - 1) Časové proměnné + 2) population a median age 2018 + life diff

**CREATE** **TABLE** v\_Helena\_priprava2 **as**

**WITH** v\_Helena\_pripava4 **as** (

**SELECT** \*,

**CASE** **WHEN** country = 'Cape Verde' **THEN** 'Cabo Verde'

**WHEN** country = 'Czech Republic' **THEN** 'Czechia'

**WHEN** country = 'South Korea' **THEN** 'Korea, South'

**WHEN** country = 'Russian Federation' **THEN** 'Russia'

**WHEN** country = 'United States' **THEN** 'US'

**ELSE** country **end** **as** country\_updated

**FROM** t\_Helena\_life\_expectancy)

**SELECT** vhpri.\*, vhprip. life\_expect\_diff

**FROM** v\_Helena\_priprava1 **as** vhpri

**LEFT** **JOIN** v\_Helena\_pripava4 **as** vhprip

**ON** vhpri.country = vhprip.country

**SELECT** \* **from** v\_Helena\_priprava2

#priprava z tabulky economies - HDP/obyv, GINI, umrtnost

**SELECT**

**max**(**date**),

**Min**(**date**)

**from** covid19\_basic\_differences cbd

# roky 2020 a 2021 -- v tabulce economies je posledni rok 2020

# vysledna tabulka s HDP/obyv, GINI, umrtnost - VYSLEDNA TABULKA PRO 1) Časové proměnné + 2) population a median age 2018 + life diff + HDP/obyv + GINI, umrtnost

**CREATE** **view** v\_Helena\_priprava3 **as**

**WITH** v\_Helena\_econ **as** (

**SELECT**

country,

**year**,

**REPLACE** ('2,020','2,020','2020') **as** help\_year,

mortaliy\_under5,

gini,

GDP / population **as** GDP\_per\_capita,

**CASE** **WHEN** country = 'Bahamas, The' **THEN** 'Bahamas'

**WHEN** country = 'Czech Republic' **THEN** 'Czechia'

**WHEN** country = 'South Korea' **THEN** 'Korea, South'

**WHEN** country = 'Russian Federation' **THEN** 'Russia'

**WHEN** country = 'United States' **THEN** 'US'

**WHEN** country = 'Brunei Darussalam' **THEN** 'Brunei'

**ELSE** country **end** **as** country\_updated

**From** economies e

**WHERE** **year** = '2020')

**SELECT**

vh.\*, vhe.mortaliy\_under5, vhe.gini, vhe.GDP\_per\_capita

**FROM** v\_Helena\_priprava2 **as** vh

**LEFT** **JOIN** v\_Helena\_econ **as** vhe

**on** vh.country = vhe.country

**and** vh.**year**=vhe.help\_year

#\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

#priprava dat ohledne weather

**SELECT**

**DISTINCT** city

**from** weather

# 34 mest Evropa + Rusko

**SELECT**

**Max**(`date`),

**MIN**(`date`)

**from** weather w

# 2016 - 2021-04-30

#den - od 6:00 - 18:00

**CREATE** **view** v\_Helena\_pocasi\_zaklad **AS**

**SELECT**

city,

**date**,

temp,

rain,

gust,

**time**,

**SUBSTRING**(temp,1,2) **as** new\_temp,

**SUBSTRING**(**date**,1,4) **as** date\_year,

**SUBSTRING**(**date**,1,10) **as** date\_days

**from** weather w

**where** city **is** **not** **null**

**Create** **view** v\_Helena\_pocasi\_maxgust **as**

**SELECT** \*,

**MAX**(gust) **as** gust\_MAX

**from** v\_Helena\_pocasi\_zaklad

**group** **by** city,**date**

**CREATE** **VIEW** v\_Helena\_pocjoin **as**

**SELECT**

thpz.\*, thm.gust\_MAX

**FROM** v\_Helena\_pocasi\_zaklad **as** thpz

**left** **Join** v\_Helena\_pocasi\_maxgust **as** thm

**ON** thpz.city = thm.city

**and** thpz.**date** = thm.**date**

**CREATE** **view** v\_Helena\_pocasi\_rain **as**

**SELECT**

\*,

**count**( **time**) **as** rain\_hours

**from** v\_Helena\_pocasi\_zaklad

**where** rain <> '0.0 mm'

**group** **by** city,date\_days

**CREATE** **VIEW** v\_Helena\_pocasi **as**

**SELECT**

thep.\*, tpr.rain\_hours

**FROM** v\_Helena\_pocjoin **as** thep

**left** **Join** v\_Helena\_pocasi\_rain **as** tpr

**ON** thep.city = tpr.city

**and** thep.**date** = tpr.**date**

#VYSLEDNA TABULKA PRO 1) Časové proměnné + 2) population a median age 2018 + life diff + HDP/obyv + GINI, umrtnost + GUSt max + rain hours

**CREATE** **VIEW** v\_Helena\_priprava4 **as**

**WITH** v\_Helena\_join **as** (

**SELECT**

th.\*, c.country

**FROM** v\_Helena\_pocasi **as** th

**LEFT** **JOIN** countries **as** c

**ON** th.city=c.capital\_city)

**SELECT**

vh.\*, vhpo.gust\_MAX, vhpo.rain\_hours

**FROM** v\_Helena\_priprava3 **as** vh

**LEFT** **JOIN** v\_Helena\_join **as** vhpo

**ON** vh.country = vhpo.country

**and** vh.**year**=vhpo.date\_year

#\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

#PROBLEM 2 nevim, jak vytvorit tabulku s AVG denni teplotou, abych dostala spravna cisla a zaroven to mohla napojit na mou pripravenou tabulku

#nevim, jak zmenit datovy

**CREATE** **VIEW** v\_Helena\_prumer1 **as**

**SELECT**

city,

**date**,

**time**,

**SUBSTRING** (temp,1,2) **as** help\_temp

**FROM** weather w

**WHERE** **time** <> '00:00' **and** **time** <> '03:00' **and** **time** <> '21:00'

**WITH** v\_Helena\_poc **as** (

**SELECT**

\*,

**AVG**(help\_temp) **as** AVG\_day\_temp,

**SUBSTRING**(**date**,1,10) **as** help\_year

**From** v\_Helena\_prumer1

**WHERE** city **is** **not** **null**

**group** **by** city, **date**),

v\_Helena\_country **as** (

**SELECT**

vhpo.\*, c.country

**FROM** v\_Helena\_poc **as** vhpo

**LEFT** **JOIN** countries c

**ON** vhpo.city = c.capital\_city )

**SELECT**

vhpr.\*, AVG\_day\_temp

**FROM** v\_Helena\_priprava4 **as** vhpr

**LEFT** **JOIN** v\_Helena\_country **as** vjc

**ON** vhpr.country = vjc.country

**and** vhpr.**year** = vjc.help\_year

**order** **by** country, **date**

**WITH** v\_Helena\_poc **as** (

**CREATE** **view** v\_Helena\_avg1 **as**

**SELECT**

\*,

**AVG**(help\_temp) **as** AVG\_day\_temp,

**SUBSTRING**(**date**,1,10) **as** help\_year

**From** v\_Helena\_prumer1

**WHERE** city **is** **not** **null**

**group** **by** city, **date**

**CREATE** **view** v\_Helena\_avg2 **as**

**SELECT**

vhpo.\*, c.country

**FROM** v\_Helena\_avg1 **as** vhpo

**LEFT** **JOIN** countries c

**ON** vhpo.city = c.capital\_city

**SELECT**

vhpr.\*, AVG\_day\_temp

**FROM** v\_Helena\_priprava4 **as** vhpr

**LEFT** **JOIN** v\_Helena\_avg2 **as** vjc

**ON** vhpr.country = vjc.country

**and** vhpr.**year** = vjc.help\_year

**order** **by** country, **date**

**der** **by** country, **date**