**Josh Holloway** 

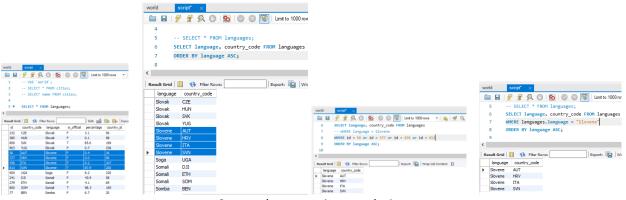
mySQL Install: https://youtu.be/0cNOD1KMJ40

# Assignment: MySQL Countries

## **Queries**

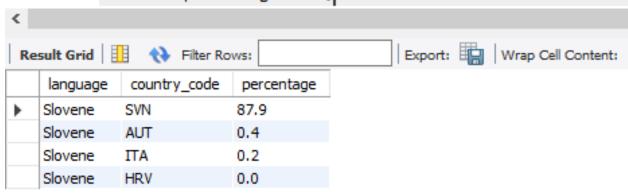
- 1. What query would you run to get all the countries that speak Slovene?
  - Your query should return:
    - Name of the country
    - Language
    - Language percentage
  - Your query should arrange the result by language percentage in descending order. (1)

```
SELECT language, country_code, percentage FROM languages WHERE languages.language = "Slovene"
ORDER BY percentage DESC;
```



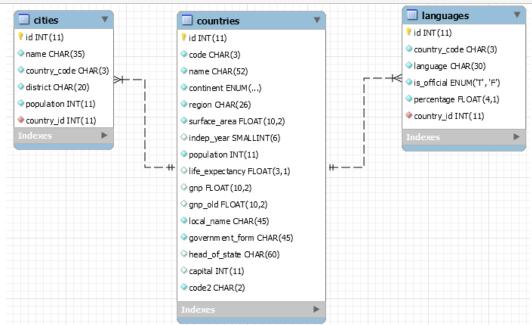
Steps taken to arrive at solution

- 3 SELECT language, country\_code, percentage FROM languages
- 4 WHERE languages.language = "Slovene"
- 5 ORDER BY percentage DESC;



- 2. What guery would you run to display:
  - > The total number of cities for each country?
  - Your query should return the name of the country and the total number of cities.
  - Your query should arrange the result by the number of cities in descending order. (3)

SELECT cities.country\_id as Country\_ID, countries.name AS Country\_Name, COUNT(\*) AS Number\_of\_Cities FROM cities
JOIN countries ON countries.id = cities.country\_id
GROUP BY countries.name
ORDER BY Number\_of\_Cities DESC;



14 • SELECT cities.country\_id as Country\_ID, countries.name AS Country\_Name, cities.name AS City\_Name FROM cities
15 JOIN countries ON countries.id = cities.country\_id



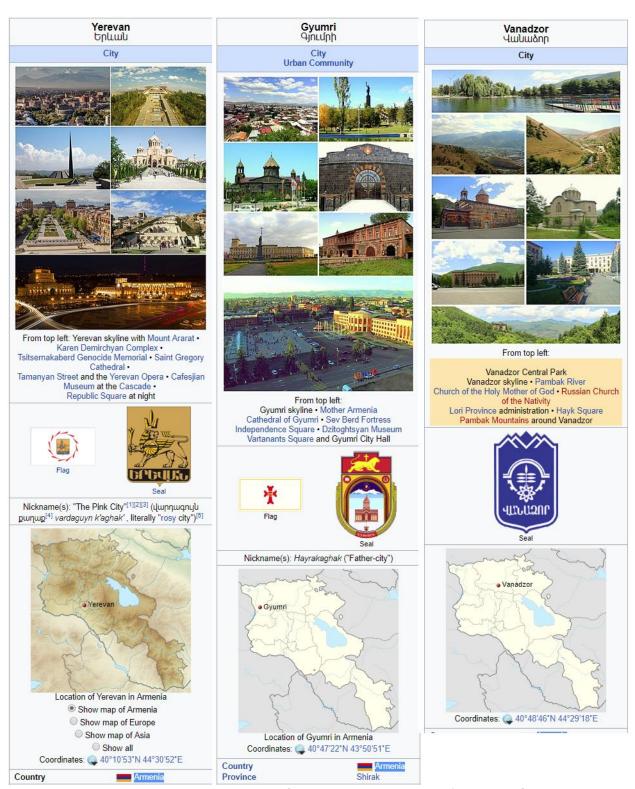
13 • SELECT cities.country\_id as Country\_ID, countries.name AS Country\_Name, COUNT(\*) AS Number\_of\_Cities FROM cities

14 JOIN countries ON countries.id = cities.country\_id

15 GROUP BY countries.name

16 ORDER BY Number\_of\_Cities DESC;





Cities used as a sanity check. [They are the 3 cities listed for Armenia]

#### 3. What query would you run to get

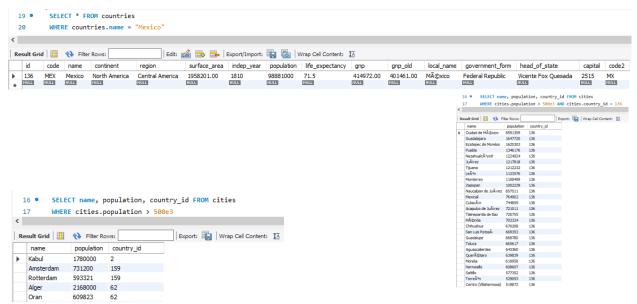
- all the cities
- in Mexico

Centro (Villahermosa) 519873

Mexico

with a population of greater than 500,000?

```
Your query should arrange the result by population in descending order.
     SELECT cities.name as City_Name, cities.population, cities.country_id, countries.name as Country_Name
     FROM cities
     JOIN countries ON countries.id = cities.country_id
     WHERE cities.population > 500e3 AND countries.name = 'Mexico'
     ORDER BY population DESC;
                                   cities
                                                           countries 
                                                                                            ? id INT(11)
                                    id INT (11)
                                                           ? id INT (11)
                                     name CHAR(35)
                                                           code CHAR(3)
                                                                                            country_code CHAR(3)
                                                                                            language CHAR(30)
                                     country_code CHAR(3)
                                                           name CHAR(52)
                                                                                            is_official ENUM('T', 'F')
                                    odistrict CHAR (20)
                                                            continent ENUM(...)
                                                                                            percentage FLOAT (4,1)
                                     population INT(11)
                                                                                            country_id INT(11)
                                                            surface_area FLOAT (10,2)
                                    country_id INT(11)
                                                            indep_year SMALLINT(6)
                                                            population INT(11)
                                                           ○ life_expectancy FLOAT(3,1)
                                                            gnp FLOAT (10,2)
                                                            gnp_old FLOAT(10,2)
                                                           local_name CHAR(45)
                                                            government form CHAR(45)
                                                            head of state CHAR(60)
                                                            capital INT(11)
                                                            code2 CHAR(2)
13
 14
         -- -- Part 3
15 •
         SELECT cities.name as City_Name, cities.population, cities.country_id, countries.name as Country_Name FROM cities
         JOIN countries ON countries.id = cities.country_id
         WHERE cities.population > 500e3 AND countries.name = 'Mexico'
18
         ORDER BY population DESC;
Export: Wrap Cell Content: IA
                                                   Country_Name
   City_Name
                     population country_id
  Ciudad de México
                      8591309
                                  136
                                                  Mexico
  Guadalajara
                      1647720
                                 136
                                                  Mexico
  Ecatepec de Morelos 1620303
                                 136
                                                  Mexico
  Puebla
                      1346176
                                 136
                                                  Mexico
  NezahualcÃ3votl
                      1224924
                                 136
                                                  Mexico
  JuÃirez
                     1217818
                                 136
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                                                  Mexico
  León
                    1133576
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  Monterrey
                      1108499
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                                 136
                                                  Mexico
  Zapopan
  Naucalpan de JuÃirez 857511
                                  136
                                                  Mexico
  Mexicali
            764902
                                 136
                                                  Mexico
  CuliacÃin
                      744859
                                 136
                                                  Mexico
  Acapulco de JuÃirez 721011
                                 136
                                                  Mexico
  Tlalnepantla de Baz
                      720755
                                  136
                                                  Mexico
  MÃ@rida
                      703324
                                 136
                                                  Mexico
  Chihuahua
                      670208
                                  136
                                                  Mexico
  San Luis PotosÃ-
                      669353
                                 136
                                                  Mexico
  Guadalupe
                      668780
                                  136
                                                  Mexico
  Toluca
                      665617
                                 136
                                                  Mexico
  Aguascalientes
                      643360
                                  136
                                                  Mexico
  Ouerétaro
                      639839
                                 136
                                                  Mexico
  Morelia
                      619958
                                  136
                                                  Mexico
                      608697
  Hermosillo
                                 136
                                                  Mexico
  Saltillo
                      577352
                                  136
                                                  Mexico
  TorreÃ3n
                                 136
                      529093
                                                  Mexico
```

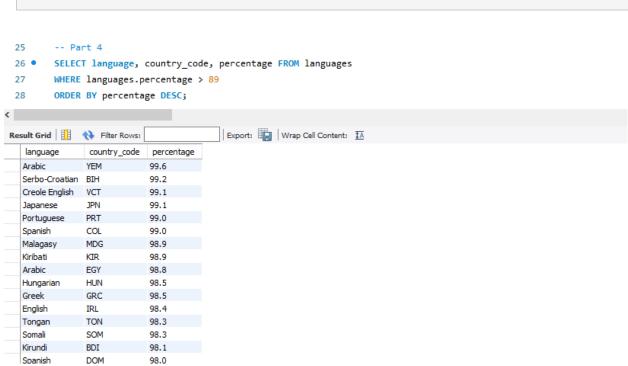


Steps taken to work toward final solution.

4. What query would you run to get all languages in each country with a percentage greater than 89%?

Your query should arrange the result by percentage in descending order. (1)

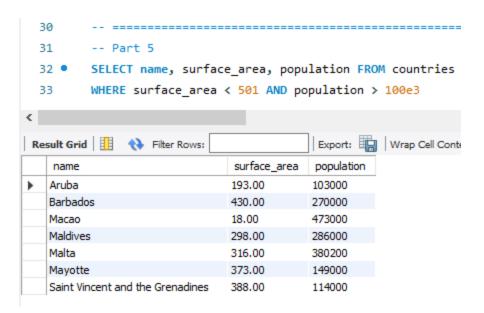
```
SELECT language, country_code, percentage FROM languages
WHERE languages.percentage > 89
ORDER BY percentage DESC;
```



## 5. What query would you run to get:

- All the countries
- With Surface Area below 501
- And population greater than 100,000?

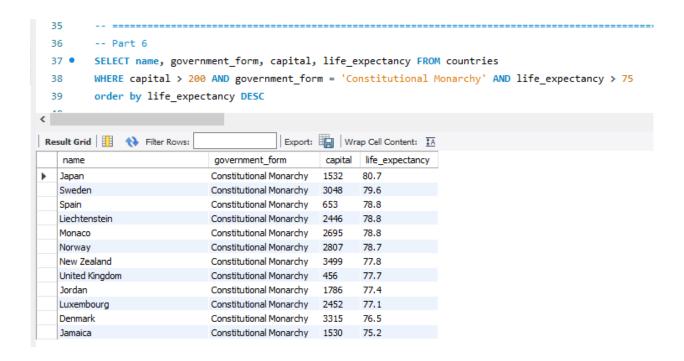
SELECT name, surface\_area, population FROM countries WHERE surface\_area < 501 AND population > 100e3



## 6. What query would you run to get:

- Countries
- With only Constitutional Monarchy
- With a capital greater than 200
- And a life expectancy greater than 75 years?

SELECT name, government\_form, capital, life\_expectancy FROM countries
WHERE capital > 200 AND government\_form = 'Constitutional Monarchy' AND life\_expectancy > 75
order by life\_expectancy DESC



## 7. What query would you run to get:

- > All the cities of Argentina
- Inside the Buenos Aires district
- And have the population greater than 500, 000?
- The query should return the Country Name, City Name, District and Population.

```
SELECT countries.name AS Country_Name, cities.name AS City_Name, district as District, cities.population as Country_Population FROM cities

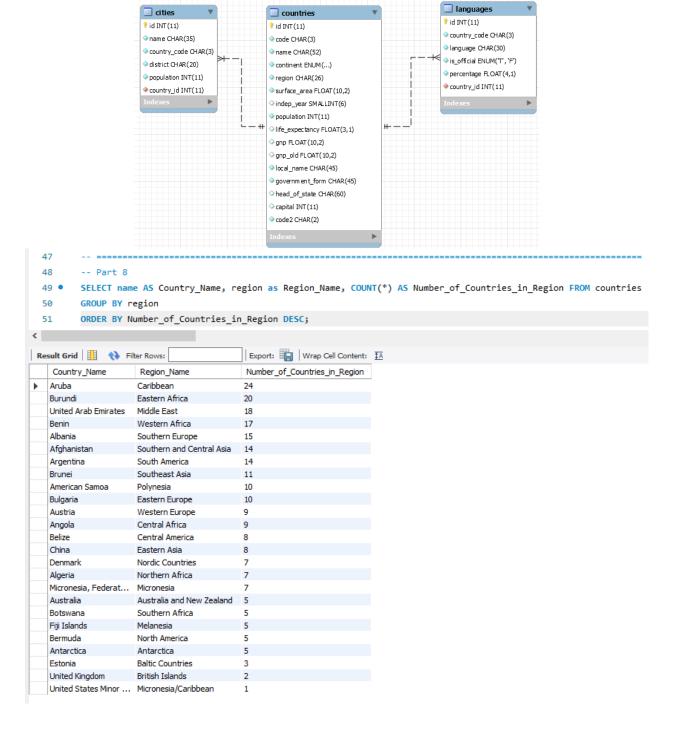
JOIN countries ON countries.id = cities.country_id

WHERE cities.population > 500e3 AND cities.district = 'Buenos Aires' AND countries.name = 'Argentina'
```

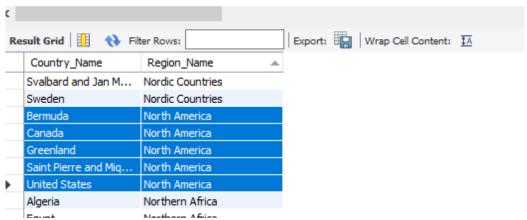


## 8. What query would you run to:

- Summarize the number of countries in each region?
- The guery should display the name of the region and the number of countries.
- Also, the query should arrange the result by the number of countries in descending order. (2)



49 • SELECT name AS Country\_Name, region as Region\_Name from Countries



- > Showing that there are 5-countries in North-America region
- > A few other regions were tested also