**mySQL Install**: <https://youtu.be/0cNOD1KMJ40>

# **Assignment: MySQL Countries**

**Queries**

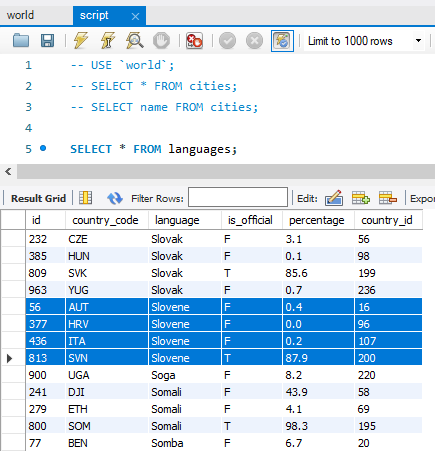
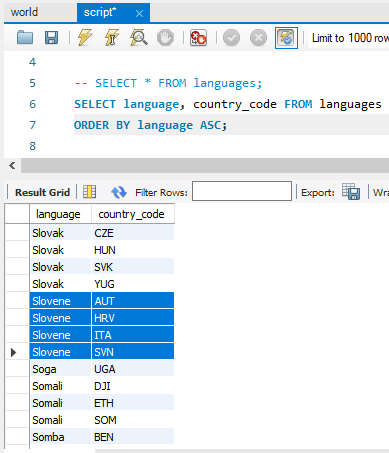
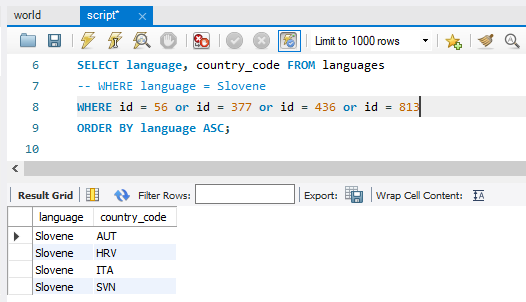
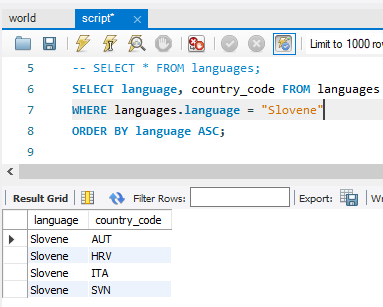
1. What query would you run to get all the **countries that speak Slovene**?

* Your query should return:
  + Name of the country
  + Language
  + Language percentage
* Your query should arrange the result by language percentage in descending order. (1)

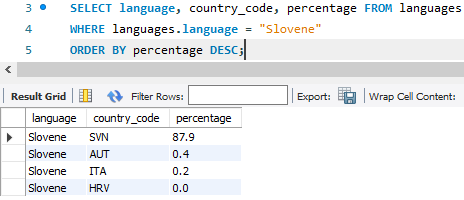
SELECT language, country\_code, percentage FROM languages

WHERE languages.language = "Slovene"

ORDER BY percentage DESC;

Steps taken to arrive at solution



2. What query 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)

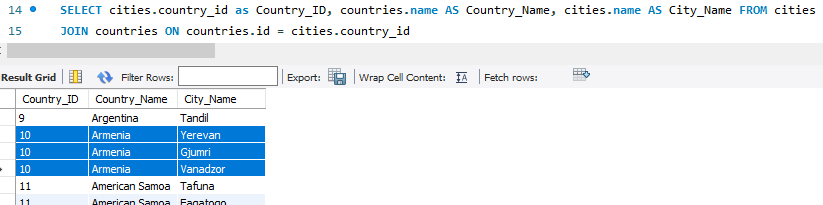
SELECT cities.country\_id as Country\_ID, countries.name AS Country\_Name, COUNT(\*) AS Number\_of\_Cities FROM cities

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

GROUP BY countries.name

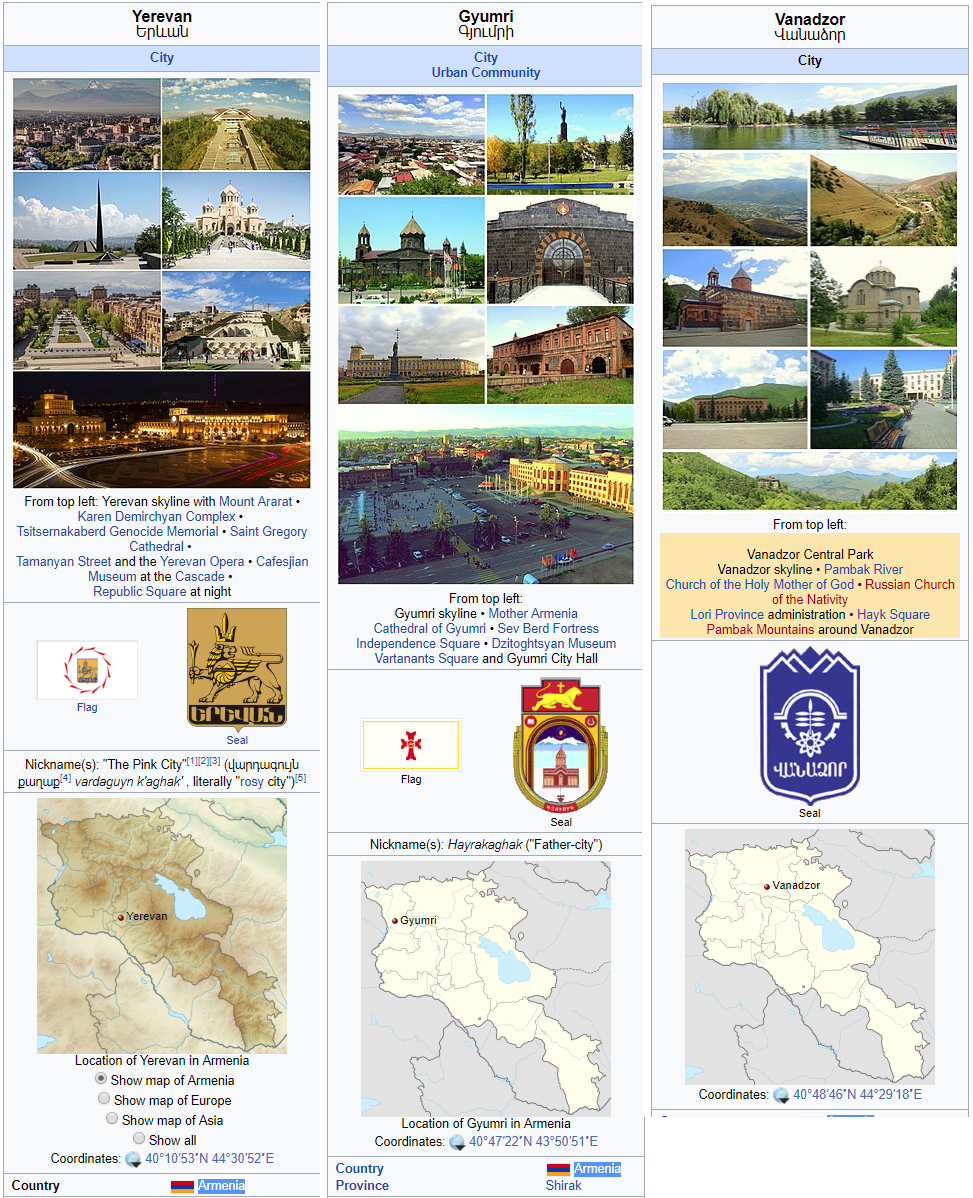
ORDER BY Number\_of\_Cities DESC;





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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**
* **with a population of greater than 500,000**?
* Your query should arrange the result by population in descending order.

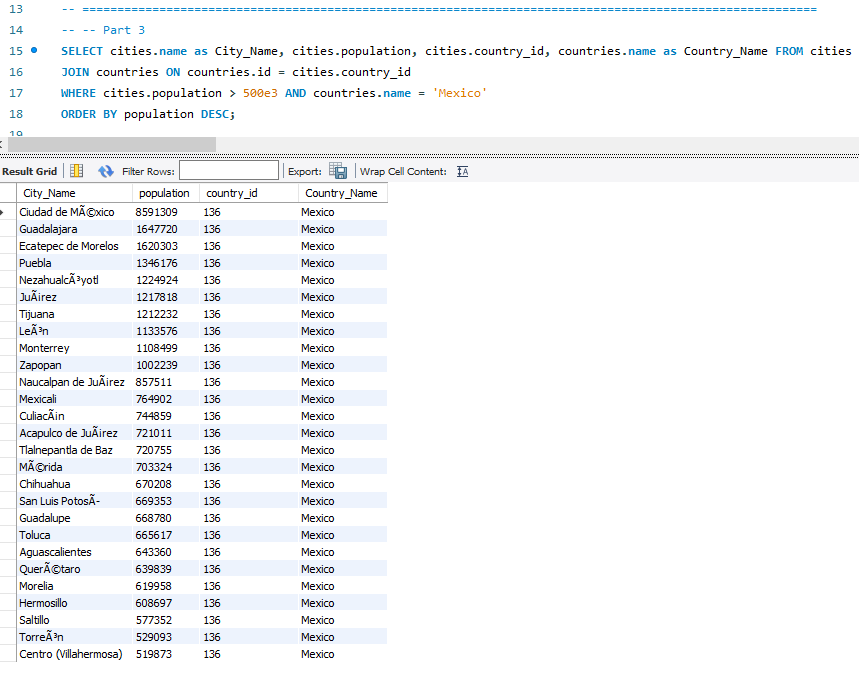
SELECT **cities**.name as City\_Name, **cities**.population, **cities**.country\_id, countries.name as Country\_Name FROM **cities**

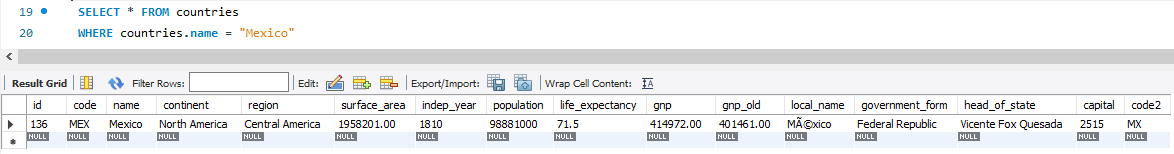
JOIN **countries** ON **countries**.id = **cities**.country\_id

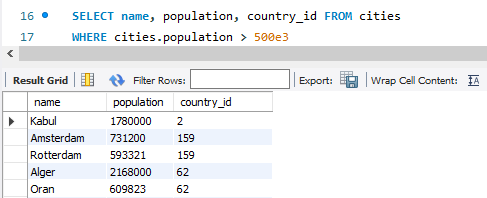
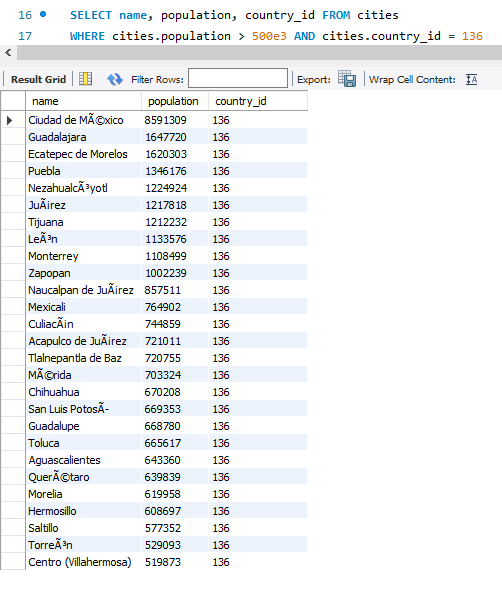
WHERE **cities**.population > 500e3 AND **countries**.name = 'Mexico'

ORDER BY population DESC;







Steps taken to work toward final solution.

**Question**:

* How to do the above query without knowing the country\_id

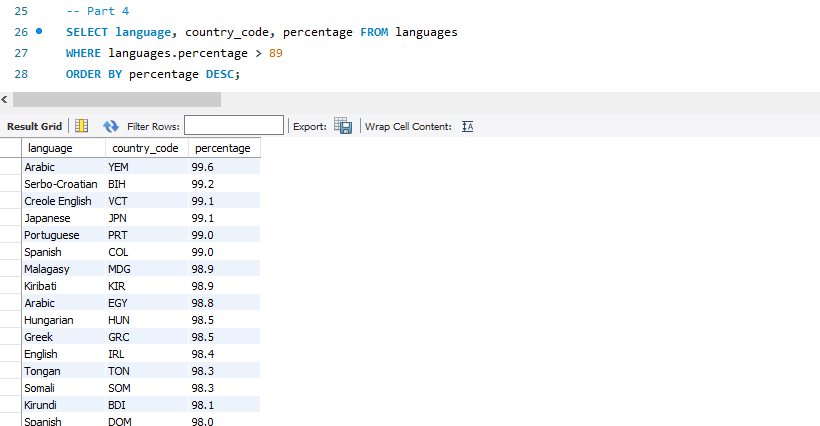
4. What query would you run to get **all languages in each country with a percentage greater than 89%**?

* 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;

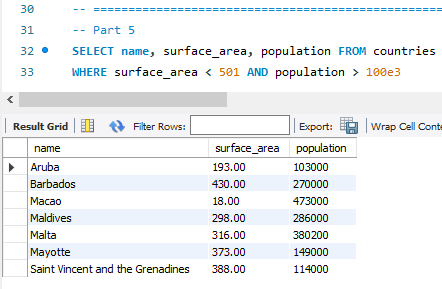


5. What query would you run to get:

* 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



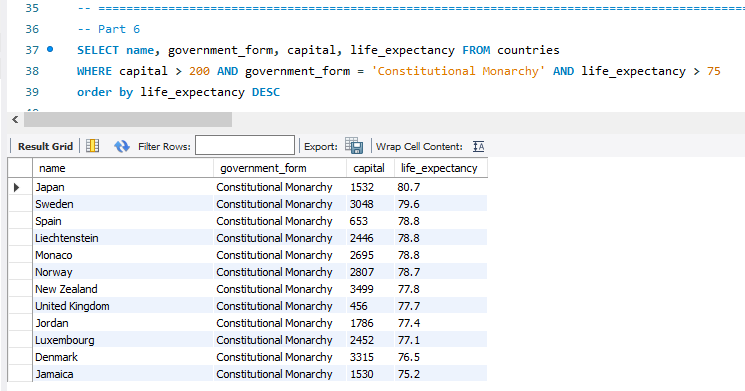
6. What query would you run to get:

* 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



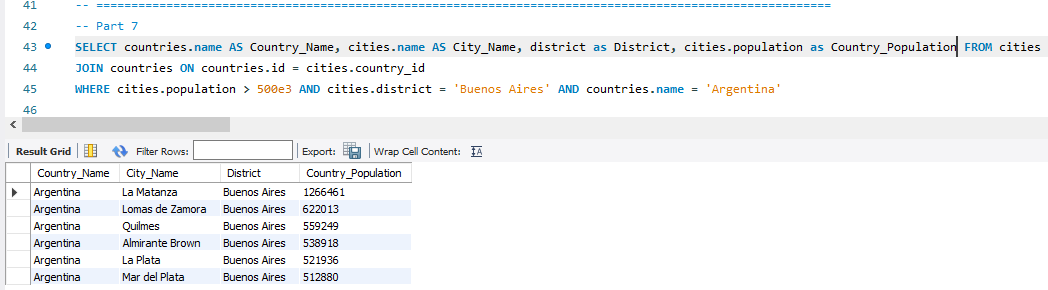
7. What query would you run to get:

* 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

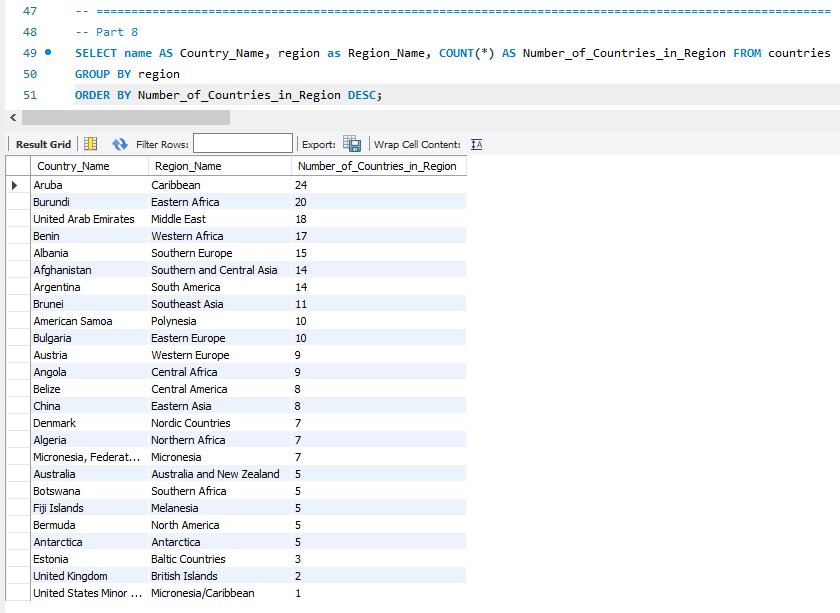
WHERE cities.population > 500e3 AND cities.district = 'Buenos Aires' AND countries.name = 'Argentina'

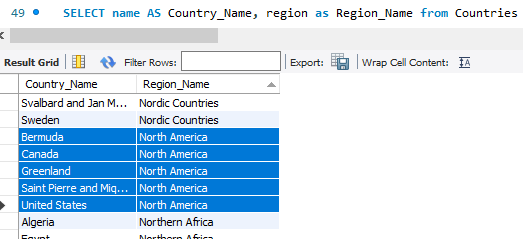


8. What query would you run to:

* Summarize the number of countries in each region?
* The query 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)







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