**Josh Holloway**

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

# **Assignment-1: MySQL Countries**

**Queries**

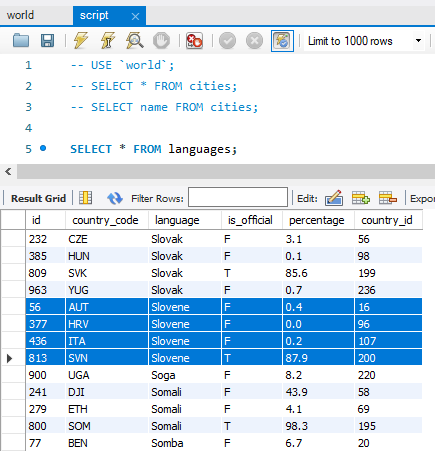
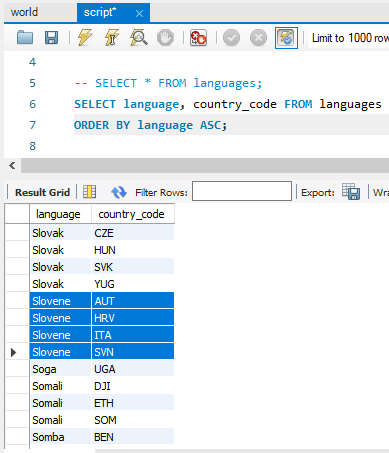
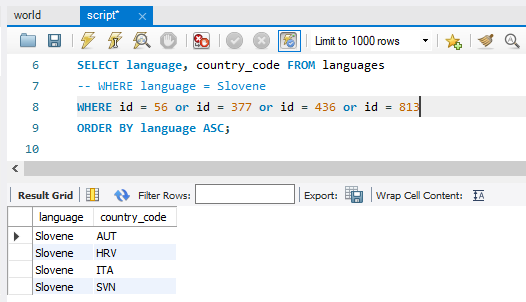
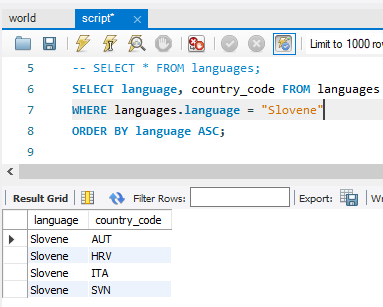
1. What query would you run to get all the **countries** that **speak Slovene**?

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

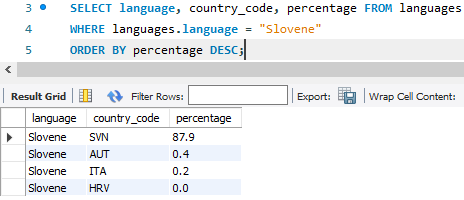
SELECT language, country\_code, percentage FROM languages

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)

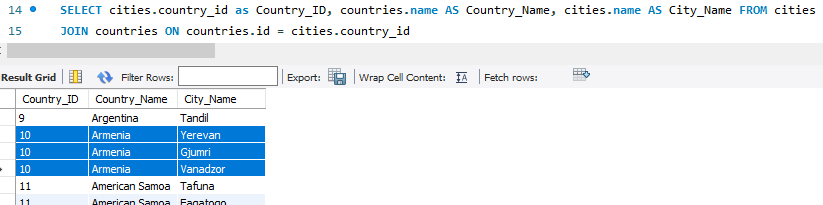
SELECT cities.country\_id as Country\_ID, countries.name AS Country\_Name, COUNT(\*) AS Number\_of\_Cities FROM cities

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

GROUP BY countries.name

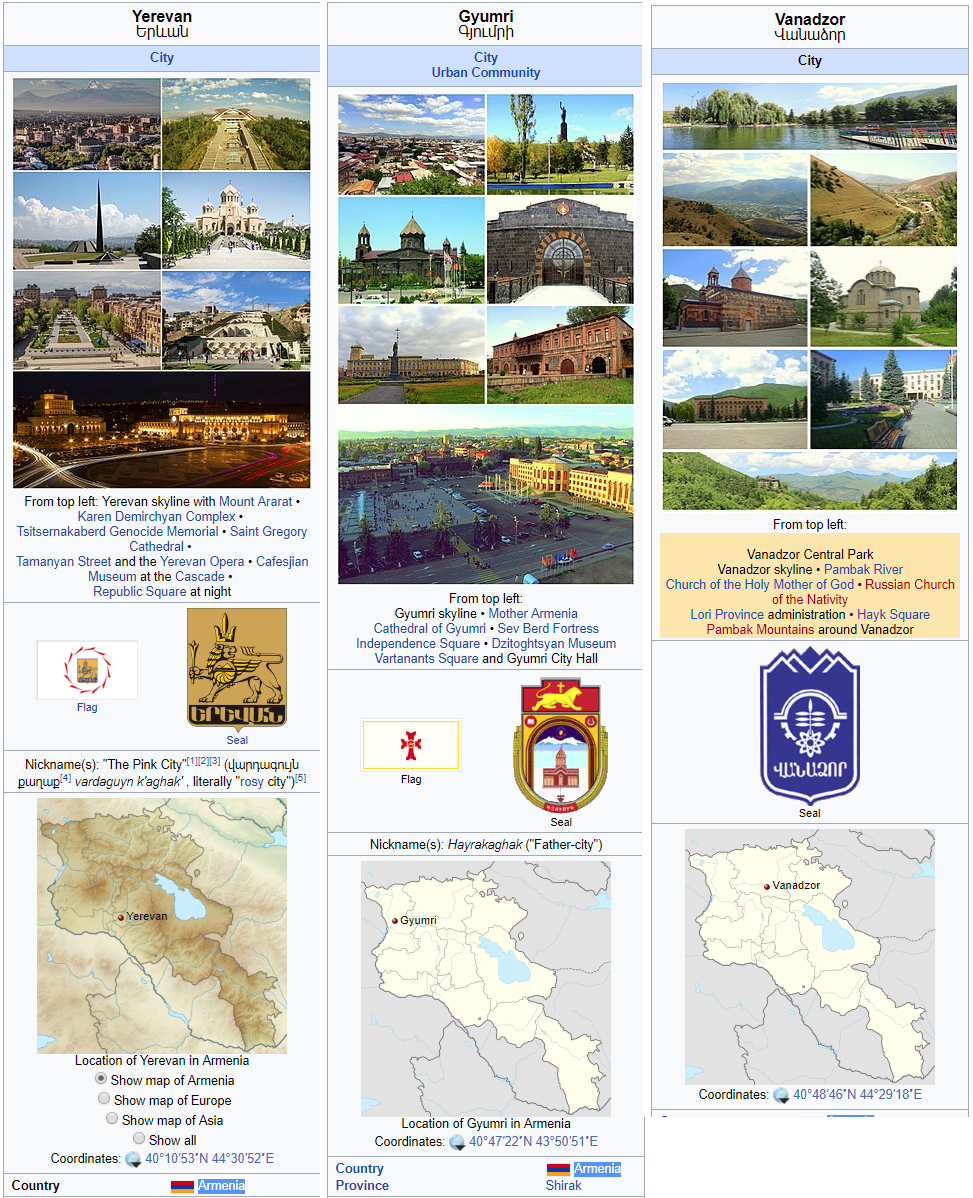
ORDER BY Number\_of\_Cities DESC;





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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.

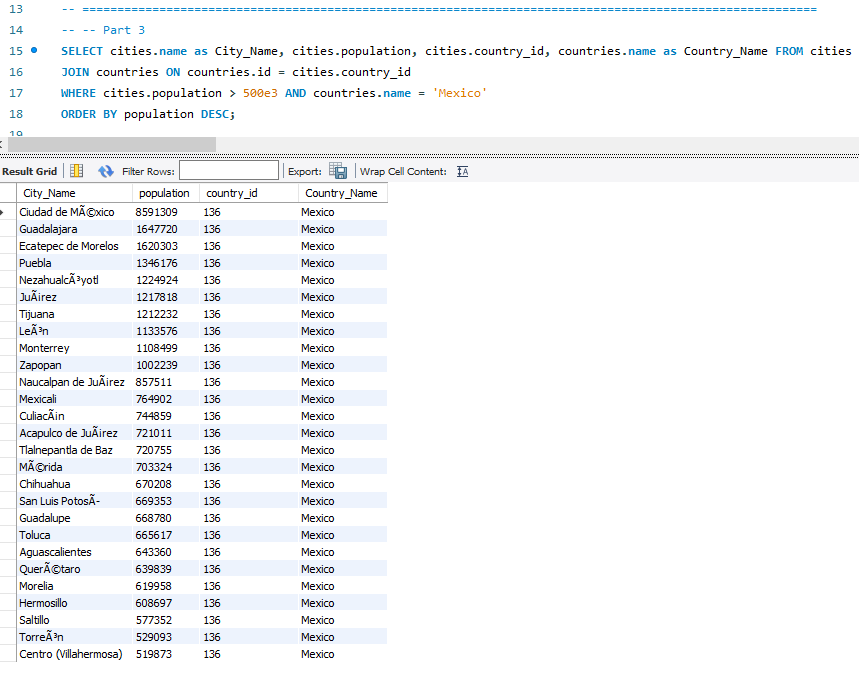
SELECT **cities**.name as City\_Name, **cities**.population, **cities**.country\_id, countries.name as Country\_Name FROM **cities**

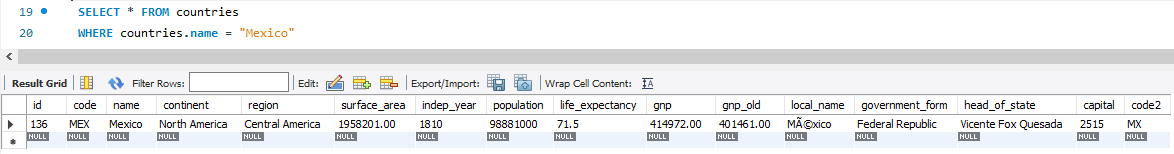
JOIN **countries** ON **countries**.id = **cities**.country\_id

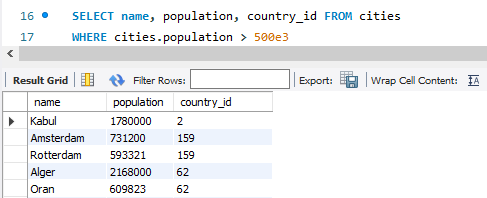
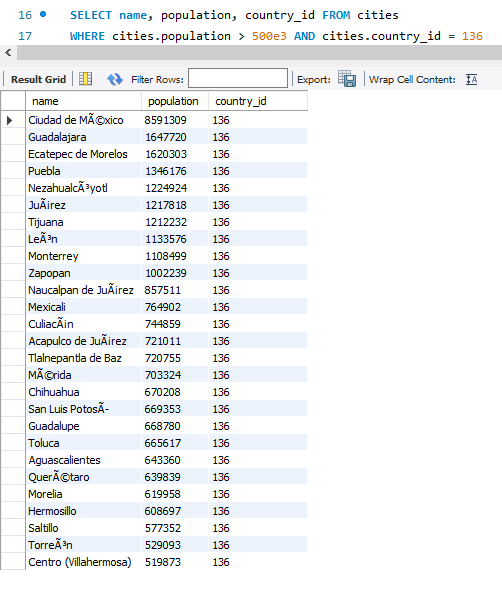
WHERE **cities**.population > 500e3 AND **countries**.name = 'Mexico'

ORDER BY population DESC;







Steps taken to work toward final solution.

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

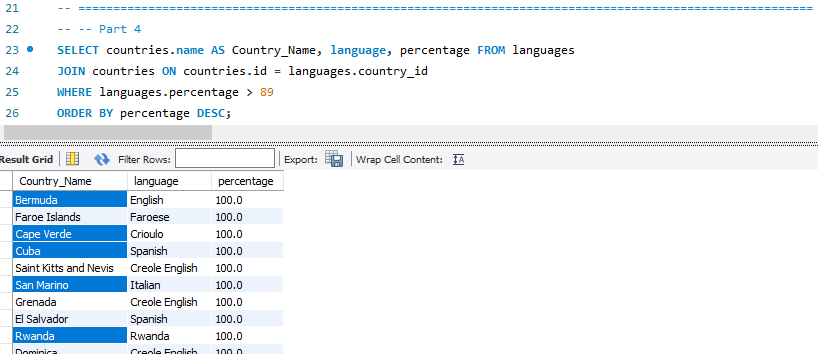
* Your query should arrange the result by percentage in descending order. (1)

SELECT countries.name AS Country\_Name, language, percentage FROM languages

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

WHERE languages.percentage > 89

ORDER BY percentage DESC;

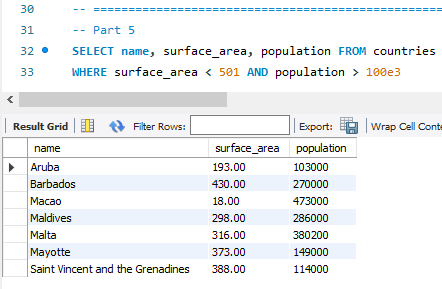


5. What query would you run to get:

* 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



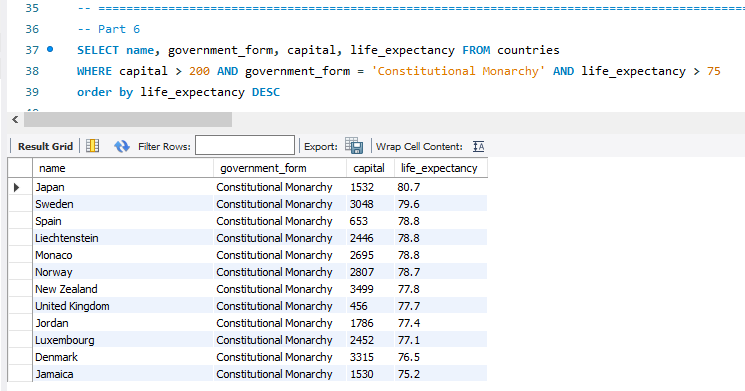
6. What query would you run to get:

* 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



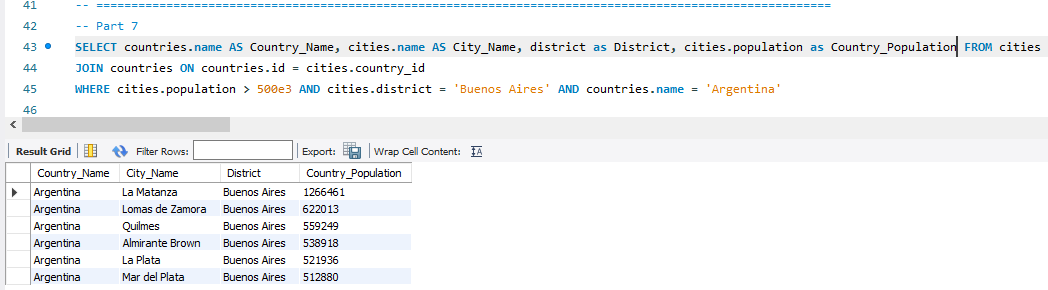
7. What query would you run to get:

* 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

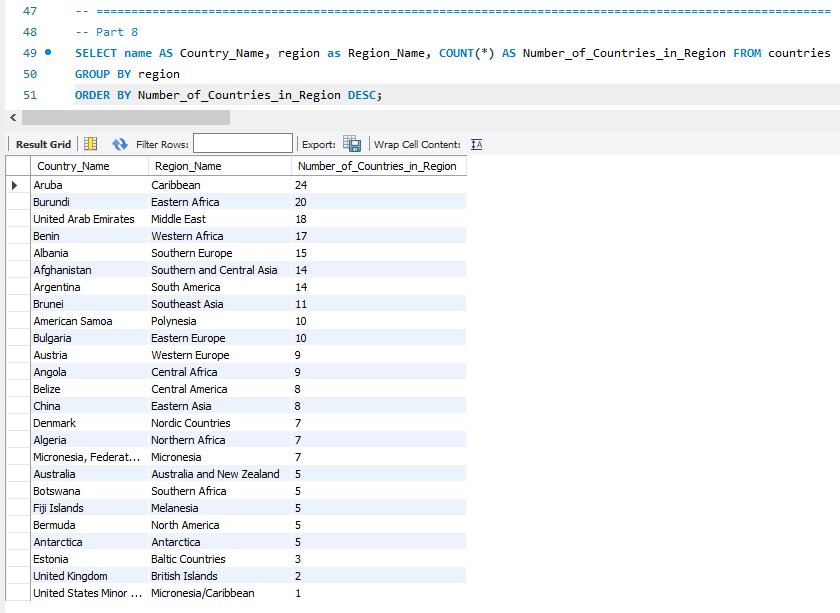
WHERE cities.population > 500e3 AND cities.district = 'Buenos Aires' AND countries.name = 'Argentina'

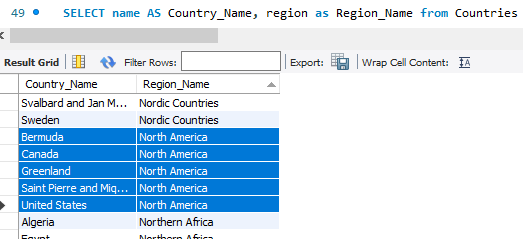


8. What query would you run to:

* 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**

# Assignment-2: ***Sakila***

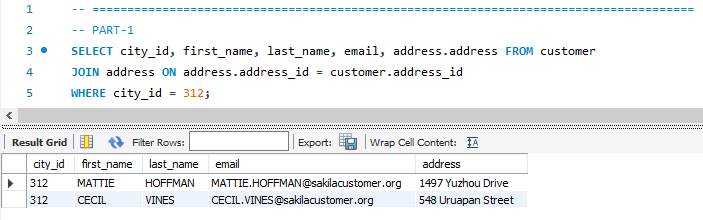
1. What query :

* All the customers
* Inside city\_id = 312
* Your query should return customer
  + first name
  + last name
  + email
  + address.

SELECT city\_id, first\_name, last\_name, email, address.address FROM customer

JOIN address ON address.address\_id = customer.address\_id

WHERE city\_id = 312;



2. What query would you run to get

* All comedy films
* Your query should return:
  + - film title
    - description
    - release year
    - rating
    - special features
    - genre (category)

SELECT film.film\_id, title AS Film\_Title, description, release\_year, rating, special\_features, name AS Genre FROM film\_category

JOIN film ON film.film\_id = film\_category.film\_id

JOIN category ON category.category\_id = film\_category.category\_id



3. What query would you run to get

* + All the films joined by actor\_id=5
* Your query should return
  + Actor id
  + Actor name
  + Film title
  + Description
  + Release year.

SELECT film\_actor.actor\_id, first\_name, last\_name, film.film\_id, title, film.description, film.release\_year FROM film\_actor

JOIN film ON film.film\_id = film\_actor.film\_id

JOIN actor ON actor.actor\_id = film\_actor.actor\_id

WHERE actor.actor\_id = 5



4. What query would you run to get:

* + All the customers in store\_id = 1
  + and inside these cities (1, 42, 312 and 459)
* Your query should return
  + first name
  + last name
  + email
  + address

SELECT \* FROM customer

JOIN address ON address.address\_id = customer.address\_id

JOIN city ON city.city\_id = address.city\_id

WHERE store\_id = 1 and city.city\_id = 1 or city.city\_id = 42 or city.city\_id = 312 or city.city\_id = 459



5. What query would you run to get all the films with a "rating = G" and "special feature = behind the scenes", joined by actor\_id = 15? Your query should return the film title, description, release year, rating, and special feature. Hint: You may use LIKE function in getting the 'behind the scenes' part.

6. What query would you run to get all the actors that joined in the film\_id = 369? Your query should return the film\_id, title, actor\_id, and actor\_name.

7. What query would you run to get all drama films with a rental rate of 2.99? Your query should return film title, description, release year, rating, special features, and genre (category).

8. What query would you run to get all the action films which are joined by SANDRA KILMER? Your query should return film title, description, release year, rating, special features, genre (category), and actor's first name and last name.