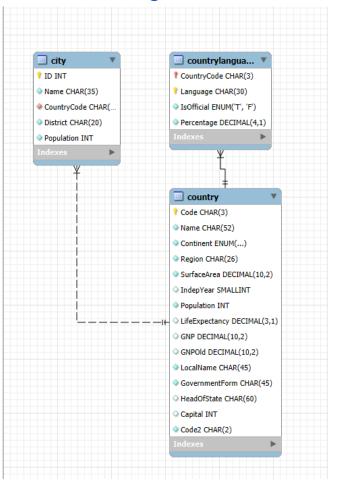
### Part 1: Install the World Database

```
/":40101 SET COLLAITON_CONNECTION=@OLD_COLLAITON_CONNECTION "/;
5434 •
         /*!40111 SET SQL_NOTES=@OLD_SQL_NOTES */;
5435 •
         SET autocommit=@old_autocommit;
5436
5437
          -- Dump completed on 2020-01-22 9:56:18
5438
5439 •
          SHOW TABLES:
Result Grid Filter Rows:
                                      Export: Wrap Cell Content: IA
    Tables_in_world
   city
   country
```

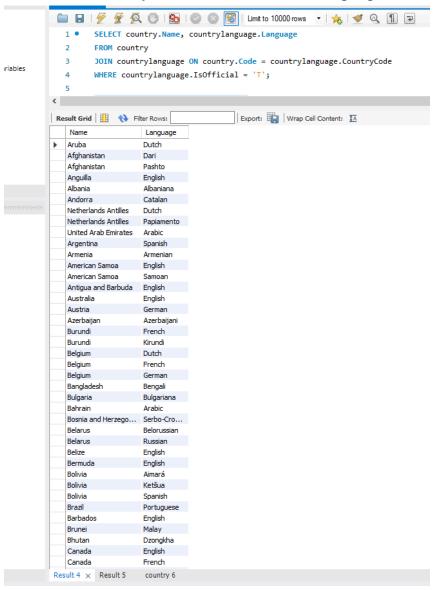
# **Part 2: Reverse Engineer the Database**



## **Part 3: SQL Queries**

#### **Basic Queries**

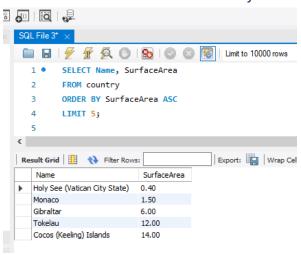
1. Retrieve all country names and their official languages.



2. List all cities in Germany along with their population.

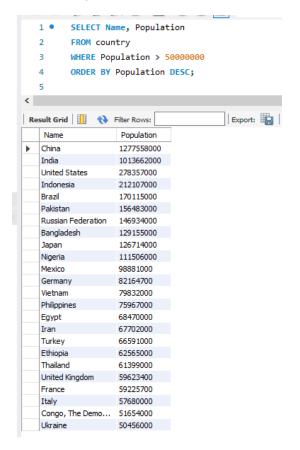


3. Find the five smallest countries by surface area.

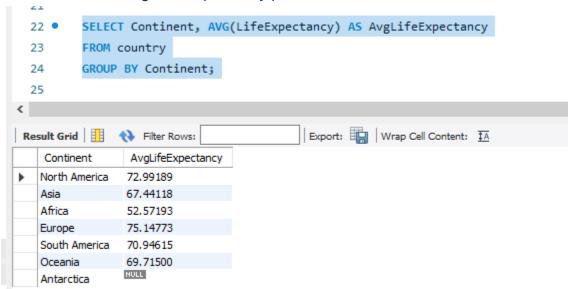


### **Filtering & Aggregation**

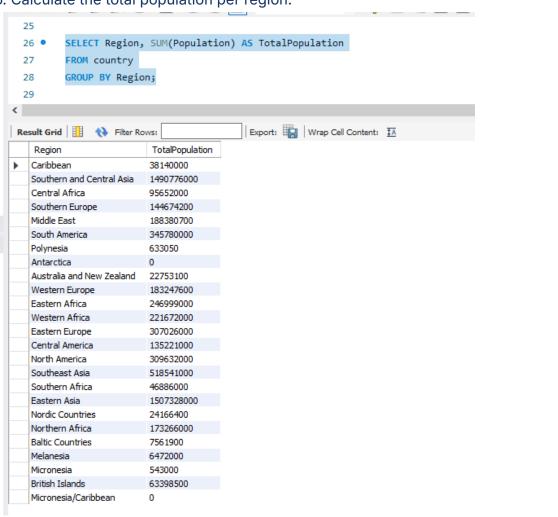
4. Find all countries with a population greater than 50 million and sort them in descending order of population.



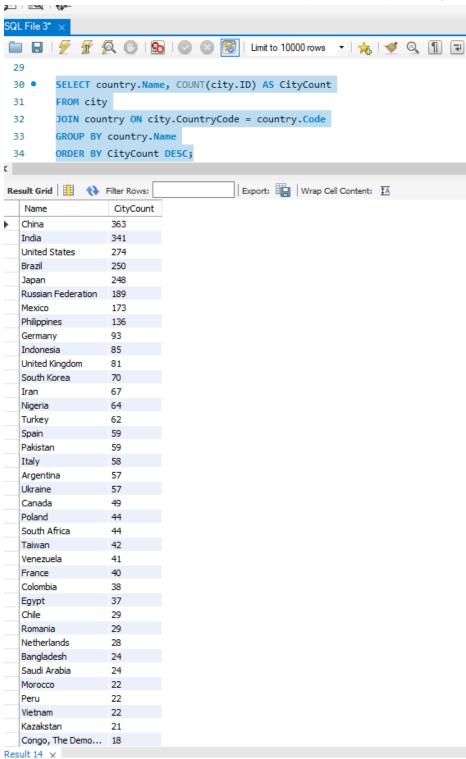
5. Retrieve the average life expectancy per continent.



6. Calculate the total population per region.

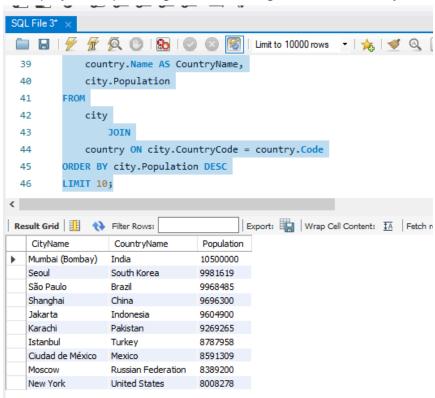


7. Count the number of cities in each country and sort by the highest count.

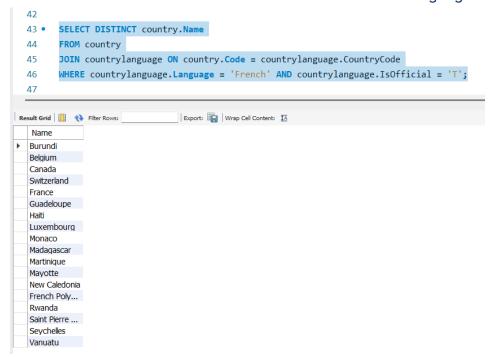


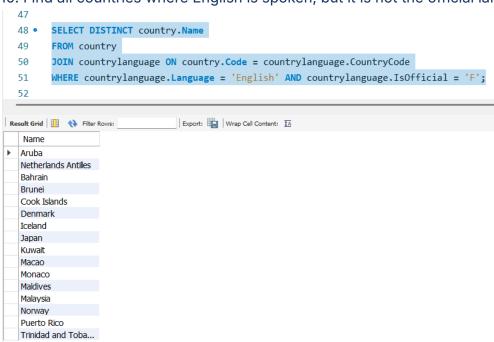
## **Joins & Subqueries**

8. Display the top 10 largest cities along with their country name.



9. Retrieve the names of all countries that have an official language of French.

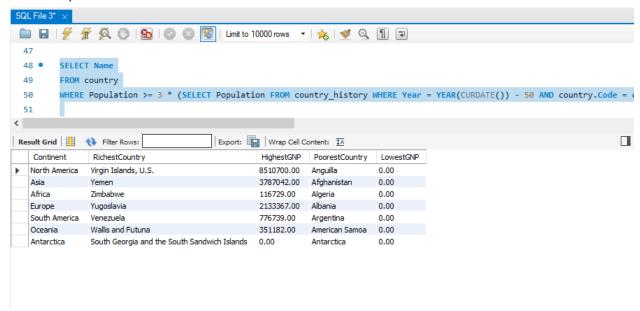




10. Find all countries where English is spoken, but it is not the official language.

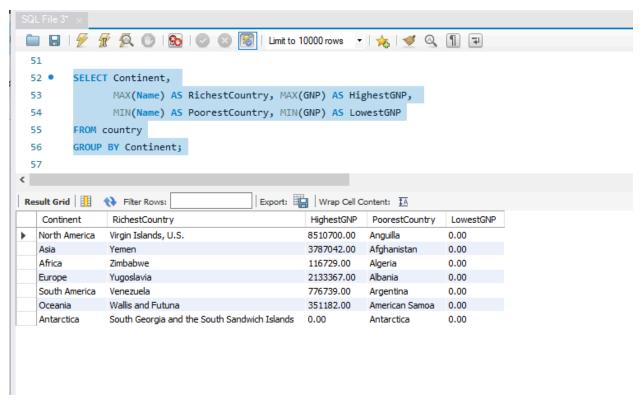
#### **Advanced Queries**

11. Find countries where the population tripled in the past 50 years (if historical data is available).

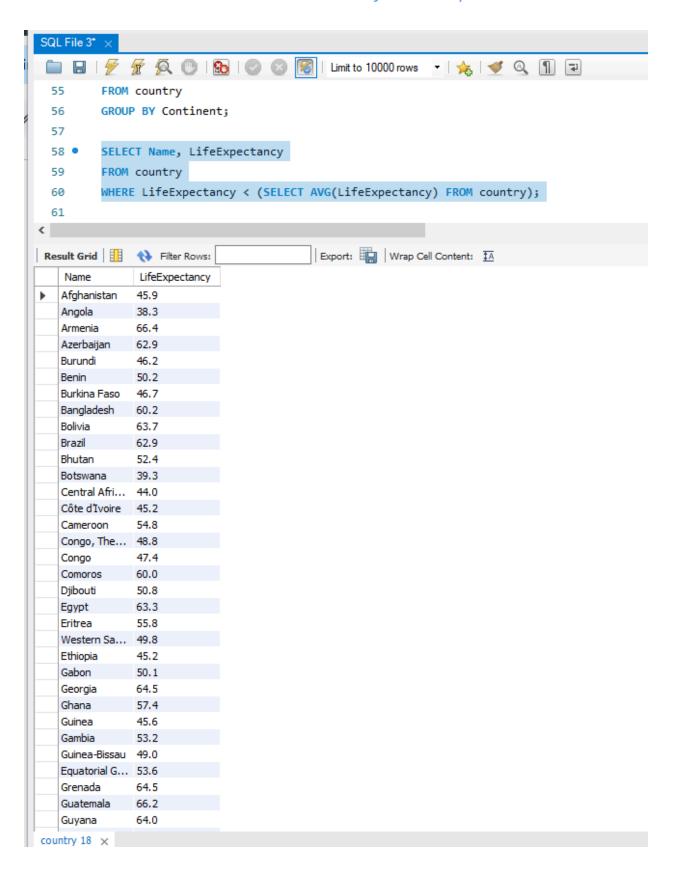


12. List the richest and poorest countries in each continent based on GNP (Gross National Product).

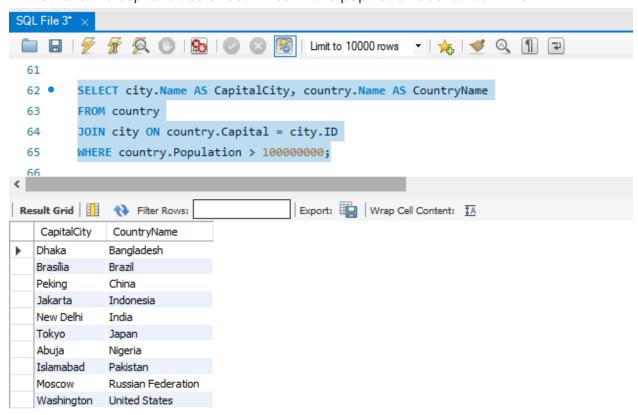
# Ashley Leon Espinoza - Database :3



13. Identify countries with a life expectancy below the global average.



14. Retrieve the capital cities of countries with a population above 100 million



15. Find the continent with the highest number of countries.

