HOMEWOK ASSIGNMENT 2 – SQL SELECT QUERIES

Objective

To understand and be able to manipulate SQL SELECT queries.

Requirements

For each question, you are required to provide the following:

- The SQL query you used
- The answers
- Any assumptions you made

Submission

Please include in your solution the following:

Valid SQL script with only the queries to all questions. Please write before each query the question number (and any assumptions you made) in a comment format ("/*...*/"). The file name should be <username>.sql. For example:

/* q1 */

select * from blabla;

/* q2 */

 /* we assumed blabla */

select * from blabla2;

Make sure that your entire .sql script can be executed without any errors.

Questions:

The following questions are on the World database:

1. Retrieve all continents. How many continents are there?
2. Retrieve the countries that are from South America? How many countries are there?
3. Retrieve the names of 10 countries with the highest life expectancy.
4. In how many countries only one language is used by its entire population?
5. Retrieve the languages that are dominant in any country (i.e. there is a country where its entire population speak only this language). How many such languages are there?
6. Retrieve a sorted list of countries that got independent during decade of the 1980s. How many such countries are there?

7. What are the names of the 5 cities with the lowest population?

8. List the countries located in America (either north or south) which are not republic.

9. Examine the country table, how many countries are not independent? How many countries have a strange IndepYear value? What query did you use? Explain your answer.

10. Which countries with population over 100,000,000 are Constitutional Monarchy?

11. The sakila database is a small example for a DVD rental store database. Answer the following questions regarding the sakila database:
    a. Explore the sakila Schema. How many tables does this database include?
    b. List of the names (first and last) of the staff in sakila.
    c. List the films which are longer than 3 hours?