

## DB HOMEWOK ASSIGNMENT 3 – SQL SELECT QUERIES

### Objective

- To understand and be able to manipulate single table SQL SELECT queries.
- Define a Database schema using DDL (Data Definition Language).

### Requirements

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

- The SQL query you used
- The answers
- Any assumptions you made
- Use aggregate functions when applicable

### 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. What is the average population per country?
2. What is the total population in the world?
3. How many spoken languages are there?
4. How many countries are in each continent?
5. Find number of languages spoken in each country.
6. List the countries with more than 10 spoken languages?

7. List the top 5 countries with the highest number of spoken languages?
8. Use the sakila DB for this question:
  - a. Refer to the address table and list the addresses in which the phone number starts with 177.
9. Use the script classicmodels.sql to install the classicmodels database. Answer the following question on based on this database:
  - a. For all sales rep. employee list: the employee name, the total number of orders, and total payments their customers made.
  - b. For all orders in dispute status list: the order number, the customer name, the customer phone number, the sales representative, the sales manager, the total amount paid, and the reason for the dispute.
  - c. Write a query that lists the total sales per year.
10. Create a database names MyWorld that has the following schema. This is a subset of the world database we used. These are the steps you are requested to perform:
  - a. Create the DB using SQL commands. Make sure to correctly define the schema key constraints.
  - b. Use the data related to Israel in the world database and insert in into the MyWorld tables using the proper SQL commands.

