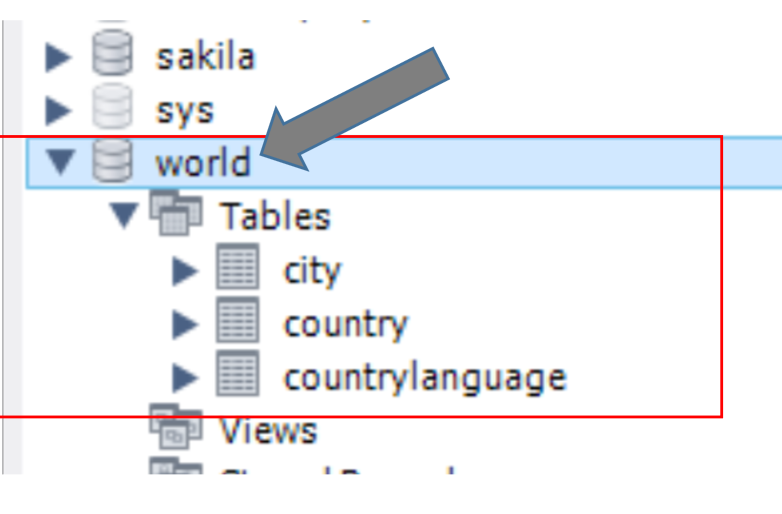
**ITEC 3200- MySQL – Homework1**

**POINTS- 100**

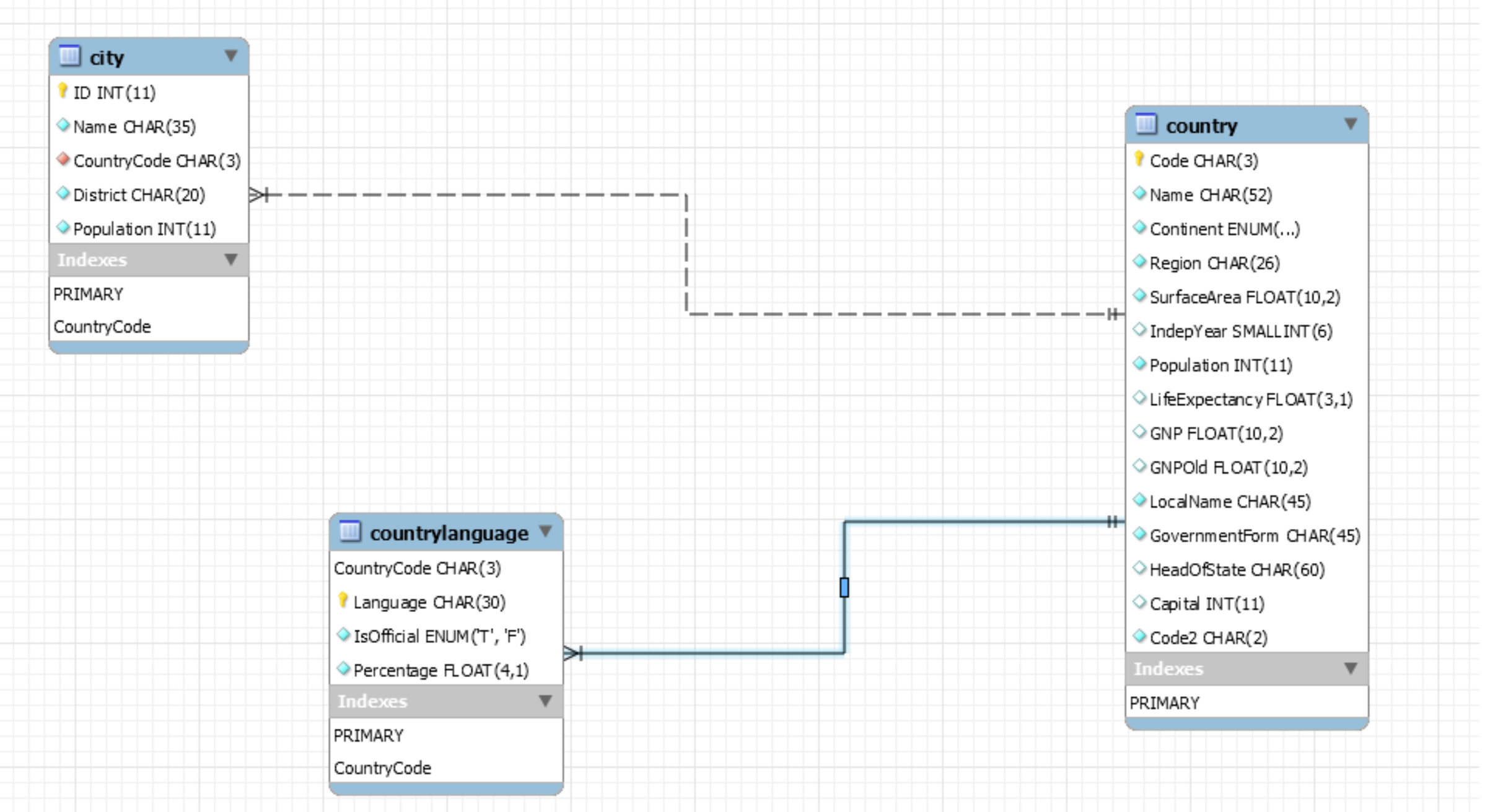
In this homework, you will write SQL Statements to answer the questions below. You will upload the MySQL file that contains the queries you write. **Please note that unlike class assignments, please work independently on completing the homework by yourself**.

1. We will work on the World database that comes with the MySQL installation
2. You should see the following schema and table created and ensure your tables have data in them. The world schema comes with three tables – City, Country and Countrylanguage. The Country table keeps track of countries. The city table keeps track of the cities in the countries. The country language table keeps track of the languages spoken in the countries.



1. If you do not have the world schema you can obtain the scripts to create the database schema. Please refer to the video posted in the MySql folder in d2l- *Running\_Script\_World\_Sakila\_Database*

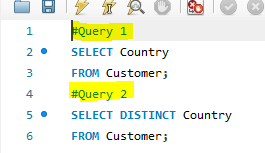
The database schema for World is shown below.



Please pay attention to the name of the table field names when you write your query. The table below identifies the primary and foreign keys –As noted below, City and Countrylanguage tables have foreign keys that are linked to the Country table field Code. Note that they are called CountryCode in the City and Countrylanguage table. **When two tables are linked using foreign keys, both the fields (PK and FK that are linked) do not need to have the exact same names**. It is important to use the correct field names in your queries as it appears in the table.

|  |  |  |
| --- | --- | --- |
| **Table** | **Primary Key Field Name** | **Foreign Key Field Name** |
| Country | Code | No foreign key |
| City | ID | CountryCode from the table country |
| Countrylanguage | CountryCode and Language | CountryCode from the table country |

1. Please take time to review the schema so you are familiar with the three tables and the fields in the tables, their data types and the relationships. It is important to use correct syntax to get full points.
2. Open a new SQL new query tab and save with your lastname\_homework1 and write queries for the questions below. Please separate your query by comments as shown in the example below. It is important to list the correct query number in the comment. So if you are answering query 1, you need to comment it as #Query 1 as shown below.



1. Ensure to set default schema to the World database in MySql Workbench prior to writing your queries on the world schema.

# Queries

1. Write a SQL query that shows all the columns in the Country table where the IndepYear is less than or equal to 1900. The results need to be sorted in ascending order by population
2. Write a SQL query that shows the unique regions (each region should appear only once) in the Country table. The results need to be sorted in descending order by region
3. Write a SQL query that shows the unique language from the Countrylanguage table where the percentage is between 50.0 and 80.0.
4. Write a SQL query that shows the Name, Continent, Surface Area, LocalName from the Country table where the LocalName ends with the word ‘island’ and the surface area is less than 50.
5. Write a SQL query that shows the country name of countries that have null (missing) values for IndepYear and GNPOld
6. Write a SQL query that shows the minimum population from the Country table with an alias of MinPopulation for the North America region and the maximum population from the country table with an alias MaxPopulation.
7. Write a SQL query that shows each region once and the count of the number of countries in the region with an alias of TotalCountries. The results should be sorted in descending order by the count of the number of countries.
8. Write a SQL query that shows each region once and the count of the number of countries in the region with an alias of TotalCountries. The results should show only if the count of the total countries in the region is 15 and below. The results should be sorted in descending order by the count of the number of countries.
9. Write a SQL subquery that shows the unique region names from the Country table where the languages spoken in the countries are English, Spanish OR Italian. The results need to be sorted in ascending order by region. (For this query, please write the query using a subquery to get points).
10. Write a SQL query that shows the Country Name, Population, Life Expectancy, GNP, Language for countries in the Caribbean Region AND where language is English. The results need to be sorted by Population in descending order.

When you are done, please upload your mysql script (lastname\_homework1) with the queries that are commented to indicate the query number to the d2l homework 1 assignment folder.