Gabriel Krishnadasan Module 2 Assignment

Database required:

- The "world" database
- 1. Answer the following questions using the "world" database (See Canvas assignment prompt). Present your SQL queries and/or processes that you used to derive the answers.
 - 1.1 How many countries became independent in the twentieth century (1900 to 2000)? (5 points)

```
FROM sql_assignment.Country
WHERE IndepYear BETWEEN 1900 AND 2000

COUNT(*)

101

OK, 1 record retrieved in 0.681ms
```

1.2 How many people in the world are expected to live for 75 years or more? (5 points)

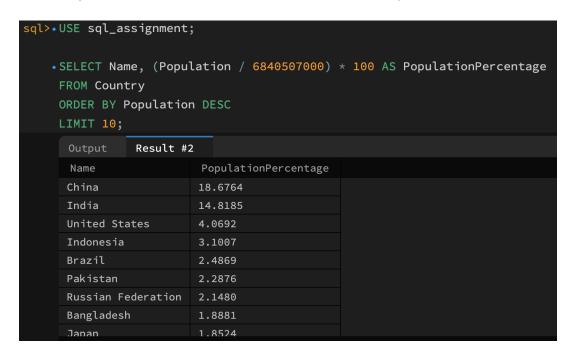
```
sql>•USE sql_assignment;

•SELECT SUM(Population) AS NumberOfPeople
FROM Country
WHERE LifeExpectancy > 75;

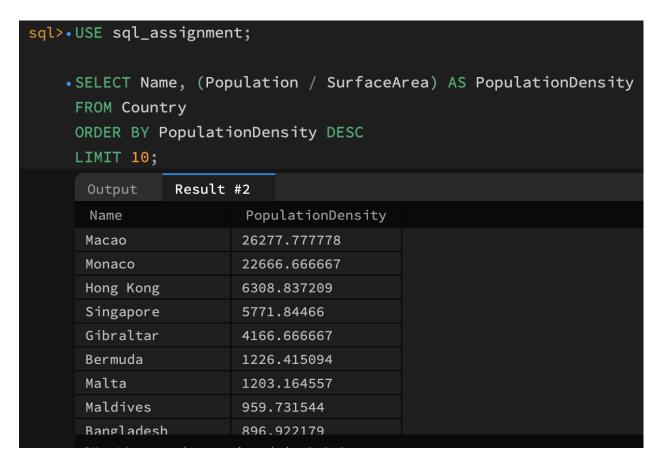
Output Result #2
NumberOfPeople
822964900

OK, 1 record retrieved in 6.175ms
```

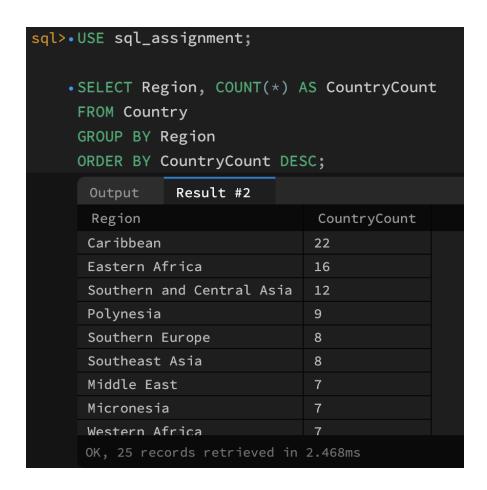
1.3 List the 10 most populated countries in the world with their populations as a percentage of the world population. Use 6,840,507,000 for the worlds population. [Hint: use the provided population for the world and then use it for percentage for countries, so something like: select Population/5000000000 from Country] (10 points)



1.4 List the top 10 countries with the highest population density. [Hint: For population density, you can try something like: select Population/SurfaceArea from Country where....] (10 points)



1.5 How many countries are there in each "Region"? Write a SQL query that produces a list of regions with a column for country counts for each region and order the count descending. (10 points)



1.6 What countries have more than 10 languages represented? Write a SQL query, using the "HAVING" clause, that produces the list of countries that have greater than 10 languages. Group by "CountryCode" and order by language count descending. (10 points)

```
sql>.SELECT CountryCode, COUNT(Language) AS NumberOfLanguages
     FROM sql_assignment.CountryLanguage
     GROUP BY CountryCode
     HAVING COUNT(Language) > 10
     ORDER BY NumberOfLanguages DESC;
       CountryCode
                        NumberOfLanguages
      CAN
                        12
      IND
                        12
      RUS
                        12
      USA
                        12
      CHN
                        11
      TZA
                        11
      ZAF
                        11
```

1.7 What are the names of the countries that have English as a language and gained their independence on or after the year 1990? (10 points)

```
Sql>•USE sql_assignment;

•SELECT Name
FROM Country
LEFT JOIN CountryLanguage
ON Country.Code = CountryLanguage.CountryCode
WHERE Language = "English" AND IndepYear > 1990;

Output Result #2
Name
Palau
OK, 1 record retrieved in 6.088ms
```

1.8 Write a query that returns the Country name, City name, and the number of non-English languages for all countries that meet each of the following criteria:

- Over 5 non-English languages
- Country population of less than or equal to 10 million
- Cities with a population greater than 1 million
- Sort in descending order for the number of non-English languages
 (20 points)

