

## CE 223 DATABASE SYSTEMS

### SECTION 3&4 - LAB 2

- Import the world database schema provided on the Blackboard and write the following 5 queries in MySQL.

### Questions

1. Find that country (or countries) where the country name has exactly two words and starts with letter 'F'. (20 pts)

SQL Query
<pre>SELECT Name FROM world.Country WHERE Name LIKE "F% %" AND Name NOT LIKE "F% % %"</pre>
Result Rows
Fiji Islands Falkland Islands Faroe Islands French Guiana French Polynesia

2. Find those countries with their regions and their language speaking percentages where Spanish is spoken and list them descending by regions' names. (20 pts)

SQL Query
<pre>SELECT Name, Region, Language, Percentage FROM world.Country JOIN world.CountryLanguage ON Code = CountryCode WHERE Language = 'Spanish' ORDER BY Region DESC;</pre>
Result Rows
'France','Western Europe','Spanish','0.4' 'Andorra','Southern Europe','Spanish','44.6' 'Spain','Southern Europe','Spanish','74.4' 'Argentina','South America','Spanish','96.8' 'Bolivia','South America','Spanish','87.7' 'Chile','South America','Spanish','89.7' 'Colombia','South America','Spanish','99.0' 'Ecuador','South America','Spanish','93.0' 'Peru','South America','Spanish','79.8' 'Paraguay','South America','Spanish','55.1' 'Uruguay','South America','Spanish','95.7' 'Venezuela','South America','Spanish','96.9' 'Canada','North America','Spanish','0.7' 'United States','North America','Spanish','7.5' 'Sweden','Nordic Countries','Spanish','0.6'

'Belize','Central America','Spanish','31.6'  
 'Costa Rica','Central America','Spanish','97.5'  
 'Guatemala','Central America','Spanish','64.7'  
 'Honduras','Central America','Spanish','97.2'  
 'Mexico','Central America','Spanish','92.1'  
 'Nicaragua','Central America','Spanish','97.6'  
 'Panama','Central America','Spanish','76.8'  
 'El Salvador','Central America','Spanish','100.0'  
 'Aruba','Caribbean','Spanish','7.4'  
 'Cuba','Caribbean','Spanish','100.0'  
 'Dominican Republic','Caribbean','Spanish','98.0'  
 'Puerto Rico','Caribbean','Spanish','51.3'  
 'Virgin Islands, U.S.','Caribbean','Spanish','13.3'

3. Find the government forms with at least 4 countries and order them so that government forms with more countries listed last. **(20 pts)**

## SQL Query

```
SELECT GovernmentForm FROM Country GROUP BY GovernmentForm HAVING COUNT() >= 4 ORDER BY COUNT();
```

## Result Rows

Constitutional Monarchy, Federation  
 Overseas Department of France  
 Territory of Australia  
 Nonmetropolitan Territory of France  
 Monarchy  
 Dependent Territory of the UK  
 Federal Republic  
 Constitutional Monarchy  
 Republic

4. Find the continents and the number of countries for each continent which have at least 10 cities. **(20 pts)**

## SQL Query

```
SELECT Continent, COUNT(DISTINCT Code) FROM world.City JOIN world.Country ON CountryCode = Code GROUP BY Continent HAVING COUNT(DISTINCT Code) >= 10;
```

## Result Rows

'Asia','51'  
 'Europe','46'  
 'North America','37'  
 'Africa','57'  
 'Oceania','27'  
 'South America','14'

5. Delete all tuples from `CountryLanguage` table where the language name ends with 'c' and the language speaking percentage is less than 1. **(20 pts)**

SQL Query

```
DELETE * FROM world.CountryLanguage WHERE Language LIKE '%c' AND Percentage < 1;
```

**HONOR CODE:**

On my honor, as an Izmir University of Economics student, I affirm that I will not give or receive any unauthorized help on this assignment, and that all work will be my own. The effort in the assignment belongs completely to me.