

CE 223 DATABASE SYSTEMS

SECTION 3&4 - LAB 1

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

Questions

1. Find the name and the district of the Asian cities with a population of less than 90000. (20 pts)

SQL Query
<pre>SELECT City.Name, City.District FROM world.City, world.Country WHERE City.CountryCode = Country.Code and Country.Continent = "Asia" and City.Population < 90000</pre>
Result Rows
<pre>'Thimphu','Thimphu' 'Bandar Seri Begawan','Brunei and Muara' 'Banyuwangi','East Java' 'Tanjung Pinang','Riau' 'Raigarh','Chhatisgarh' 'Vejalpur','Gujarat' 'Qomsheh','Esfahan' 'Dili','Dili' 'Wadi al-Sir','Amman' 'Huaying','Sichuan' 'Pingyi','Shandong' 'Huangyan','Zhejiang' 'Kuwait','al-Asima' 'Male','Maale' 'Masqat','Masqat' 'Wazirabad','Punjab' 'Nowshera','Nothwest Border Prov'</pre>

2. Find the number of distinct codes in `Country` table. (20 pts)

SQL Query
<pre>SELECT COUNT(DISTINCT Code) as NumDistinctCodes FROM world.country;</pre>
Result Rows
<pre>239</pre>

3. Find the languages spoken in Europe. (20 pts)

SQL Query
<pre>SELECT DISTINCT Language FROM world.CountryLanguage, world.Country WHERE CountryCode = Code AND Continent = "Europe";</pre>
Result Rows
<p>'Albaniana'</p> <p>'Greek'</p> <p>'Macedonian'</p> <p>'Catalan'</p> <p>'French'</p> <p>'Portuguese'</p> <p>'Spanish'</p> <p>'Czech'</p> <p>'German'</p> <p>'Hungarian'</p> <p>'Polish'</p> <p>'Romanian'</p> <p>'Serbo-Croatian'</p> <p>'Slovene'</p> <p>'Turkish'</p> <p>'Arabic'</p> <p>'Dutch'</p> <p>'Italian'</p> <p>'Bulgariana'</p> <p>'Romani'</p> <p>'Belorussian'</p> <p>'Russian'</p> <p>'Ukrainian'</p> <p>'Romansh'</p> <p>'Moravian'</p> <p>'Silesiana'</p> <p>'Slovak'</p> <p>'Southern Slavic Languages'</p> <p>'Danish'</p> <p>'English'</p> <p>'Norwegian'</p> <p>'Swedish'</p> <p>'Basque'</p> <p>'Galecian'</p> <p>'Estonian'</p> <p>'Finnish'</p> <p>'Saame'</p> <p>'Faroese'</p> <p>'Gaeli'</p> <p>'Kymri'</p> <p>'Irish'</p> <p>'Icelandic'</p> <p>'Friuli'</p> <p>'Sardinian'</p> <p>'Lithuanian'</p> <p>'Luxembourgish'</p> <p>'Latvian'</p>

'Monegasque'
 'Gagauzi'
 'Maltese'
 'Fries'
 'Avarian'
 'Bashkir'
 'Chechen'
 'Chuvash'
 'Kazakh'
 'Mari'
 'Mordva'
 'Tatar'
 'Udmur'
 'Czech and Moravian'
 'Ukrainian and Russian'

4. Find those Nordic countries with an independence year (IndepYear) greater than the minimum independence year of the European countries. **(20 pts)**

SQL Query

```
SELECT Name
FROM world.Country
WHERE Region = 'Nordic Countries'
AND IndepYear > (SELECT MIN(IndepYear) FROM world.Country WHERE Continent = 'Europe');
```

Result Rows

Finland
 Iceland
 Norway
 Sweden

5. Find the name of the countries and the name of their regions where the official language is French and the population is less than 100000 people. (20 pts)

SQL Query
SELECT DISTINCT Name, Region FROM world.CountryLanguage, world.Country WHERE Language = "French" and IsOfficial = "T" and Population < 100000;
Result Rows
'Anguilla','Caribbean' 'Andorra','Southern Europe' 'American Samoa','Polynesia' 'Antarctica','Antarctica' 'French Southern territories','Antarctica' 'Antigua and Barbuda','Caribbean' 'Bermuda','North America' 'Bouvet Island','Antarctica' 'Cocos (Keeling) Islands','Australia and New Zealand' 'Cook Islands','Polynesia' 'Christmas Island','Australia and New Zealand' 'Cayman Islands','Caribbean' 'Dominica','Caribbean' 'Falkland Islands','South America' 'Faroe Islands','Nordic Countries' 'Gibraltar','Southern Europe' 'Grenada','Caribbean' 'Greenland','North America' 'Heard Island and McDonald Islands','Antarctica' 'British Indian Ocean Territory','Eastern Africa' 'Kiribati','Micronesia' 'Saint Kitts and Nevis','Caribbean' 'Liechtenstein','Western Europe' 'Monaco','Western Europe' 'Marshall Islands','Micronesia' 'Northern Mariana Islands','Micronesia' 'Montserrat','Caribbean' 'Norfolk Island','Australia and New Zealand' 'Niue','Polynesia' 'Nauru','Micronesia' 'Pitcairn','Polynesia' 'Palau','Micronesia' 'South Georgia and the South Sandwich Islands','Antarctica' 'Saint Helena','Western Africa' 'Svalbard and Jan Mayen','Nordic Countries' 'San Marino','Southern Europe' 'Saint Pierre and Miquelon','North America' 'Seychelles','Eastern Africa' 'Turks and Caicos Islands','Caribbean' 'Tokelau','Polynesia' 'Tonga','Polynesia' 'Tuvalu','Polynesia' 'United States Minor Outlying Islands','Micronesia/Caribbean' 'Holy See (Vatican City State)','Southern Europe' 'Virgin Islands, British','Caribbean' 'Virgin Islands, U.S.','Caribbean' 'Wallis and Futuna','Polynesia'

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.