### Exercise Sheet - Java and Databases

### The World Database

During this exercise you are using “World” database. “World” is a sample database provided by MySQL. The data is from the 1990s, but it's still useful. There are 3 tables as shown below. It's not a great database design: the Continent attribute is an enumeration of Strings, the Region is a String, and Language is a String.

**city**

**ID**

CountryCode

District

Name

Population

**country**

**Code**

Capital

Code2

Continent

GNP

LifeExpectancy

LocalName

Name

Population

Region

SurfaceArea

**countrylanguage**

**CountryCode**

**Language**

isOfficial

Percentage

1. For all countries in the world print Country Name, surface area and population.
2. For all cities in the world print City Name and population.
3. Print the name of the countries, where English was the official language.
4. For each continent find its total population. Print Continent Name and total population.
5. What is the name of the country having largest population?
6. Insert details of you city into the database.
7. Update the Name of Sri Lanka to “Ceylon”
8. Delete your city from the database.
9. List the countries having 50 million people.
10. Print the continent having life expectancy more than 60.
11. Which continent Sri Lanka belongs?
12. Find the total population in Sri Lanka and Pakistan.

**To select records**

**SELECT** **(field1, field2, ...)**

**FROM table list**

**WHERE condition(s)**

**ORDERBY field1, field2..**

**GROUP BY field1, field2..**

**HAVING condition(s)**

To insert a record

**INSERT INTO table (field1, field2, ...) VALUES ( data1, data2, ...);**

To update a record

**UPDATE table SET field1=value1, field2=value2 ….WHERE condition;**

To delete a record

**DELETE FROM *tablename* WHERE *condition*;**