

## **Data Analysis Using Spreadsheets -Part 2 (Worksheet: 100 Points)**

**Write your answer along with each question and save your file**

Name: \_\_\_\_\_

### 1. Pivot Table

- a) Select entire CitiesExt table, then Insert > Pivot Chart and Pivot Table. Then OK.
- b) Find average temperature by country: Axis: Country, Values: temperature, use Value Field Settings to choose AVERAGE. See the results.
- c) Find average temperature for each coastline-EU combination: Axis: coastline, Legend: EU, Values: temperature AVERAGE, then add Values population MAX.
- d) Find the average temperature of coastline countries only: Axis: country, Legend: coastline, filter coastline YES, Values: temperature AVERAGE.
- e) Find number of cities in different countries: Axis: country, Values: city COUNT, sort by: COUNT of city

### 2. Your Turn

- a) Find the average longitude of all countries organized as coastline countries vs. non coastline countries and sorted by the average.
- b) Find the average longitude of all coastline countries sorted by the average longitude.
- c) Find five warmest cities in EU and not in EU.

### 3. Charts

- a) Show the ten countries with the highest population in a Column chart: Open Countries table, select column population, sort from A to Z. Then select the last ten entries in the column country and in the column population (hold Ctrl key to select both). Insert column chart.
- b) Show the first 8 cities and their latitudes and temperatures in a bar chart. Select Cities table. Select 8 entries of city, latitude and temperature column, Insert Bar Chart, customize style, titles, axis etc.

### 4. Your Turn

- c) Show the count of EU vs. non-EU countries in a pie chart using countries table.
- d) Show the temperature versus latitude, then temperature versus longitude, then latitude versus longitude in a scatter plot by using cities table.
- e) Use the map to plot country and population in Countries table.