

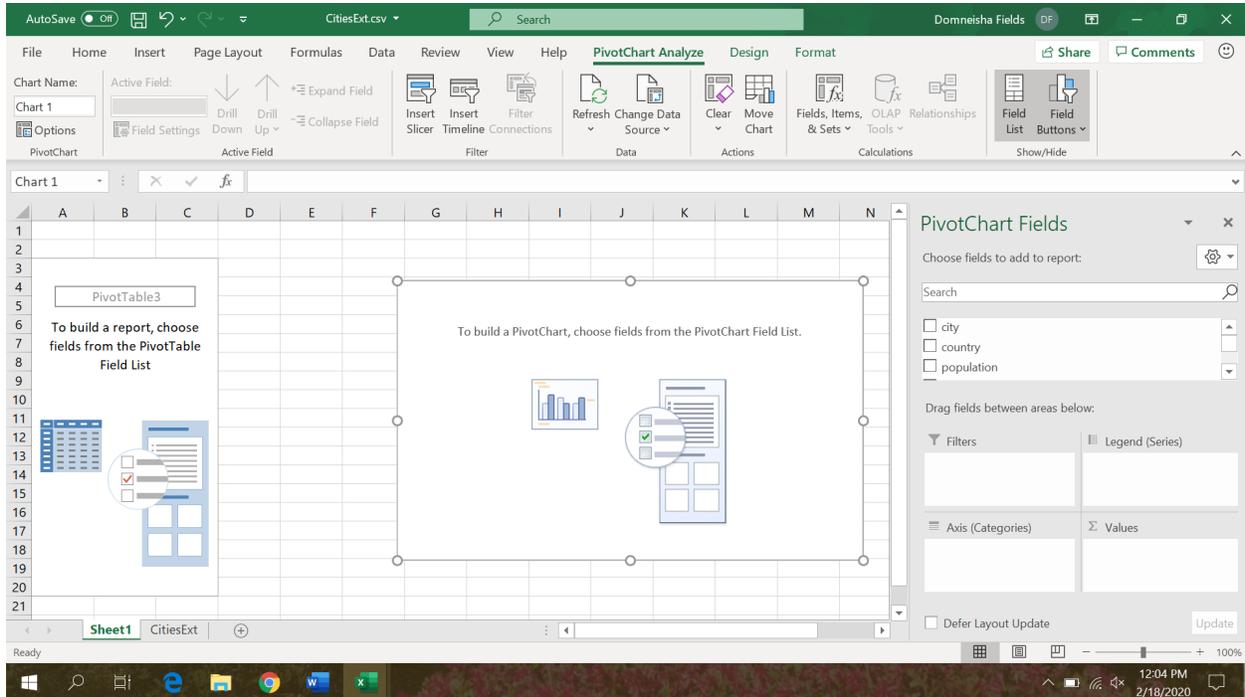
# Data Analysis Using Spreadsheets -Part 2 (Worksheet: 100 Points)

Write your answer along with each question and save your file

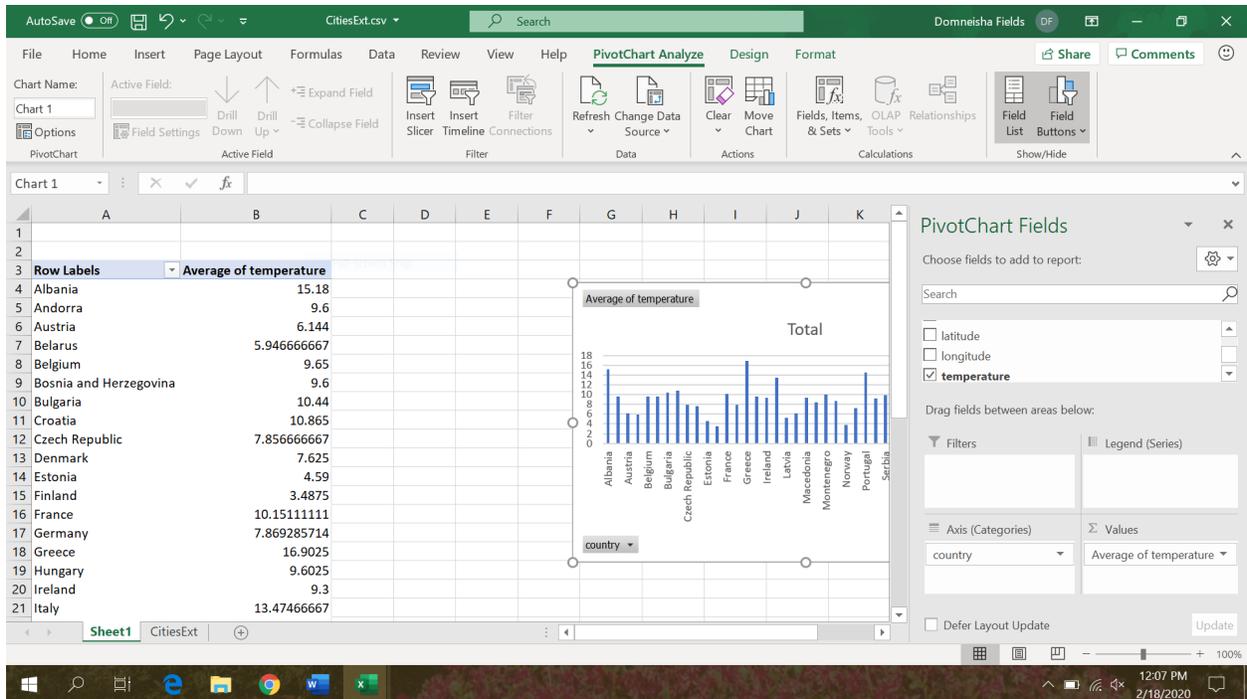
Name: \_\_\_\_\_

## 1. Pivot Table

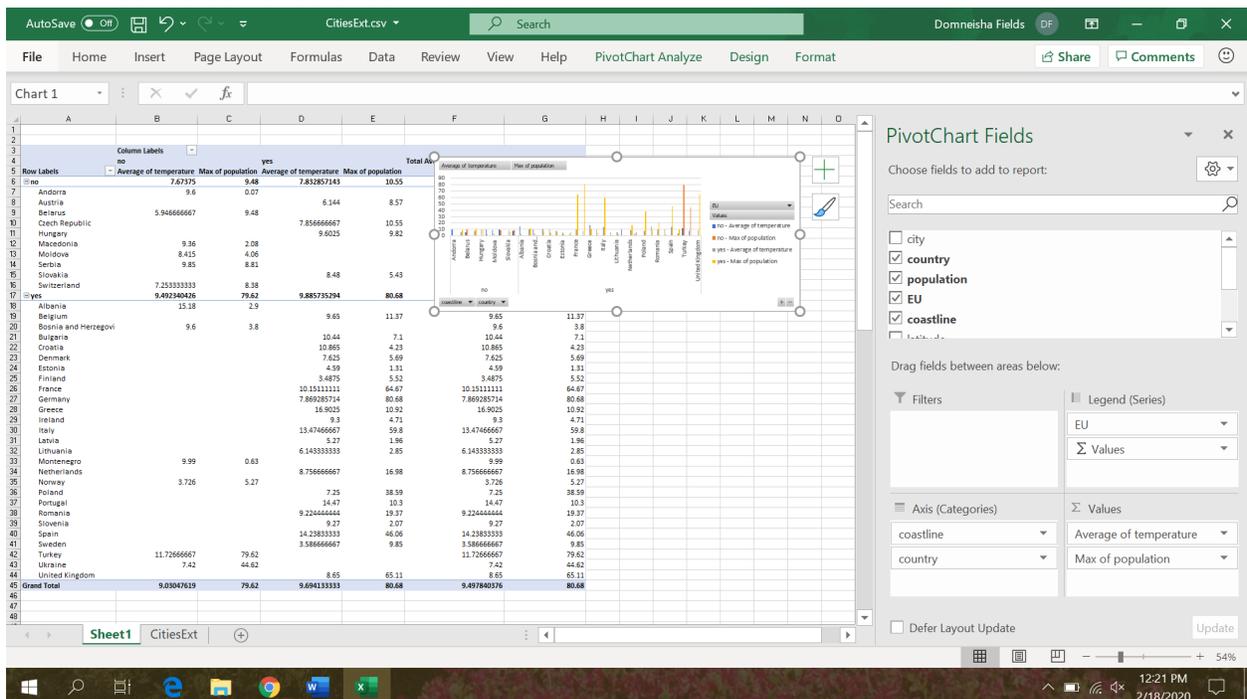
- a) Select entire CitiesExt table, then from the “Insert” tab, select > Pivot Chart and Pivot Table which is located under the “charts” category. Then OK.  
Your screen should look like this.



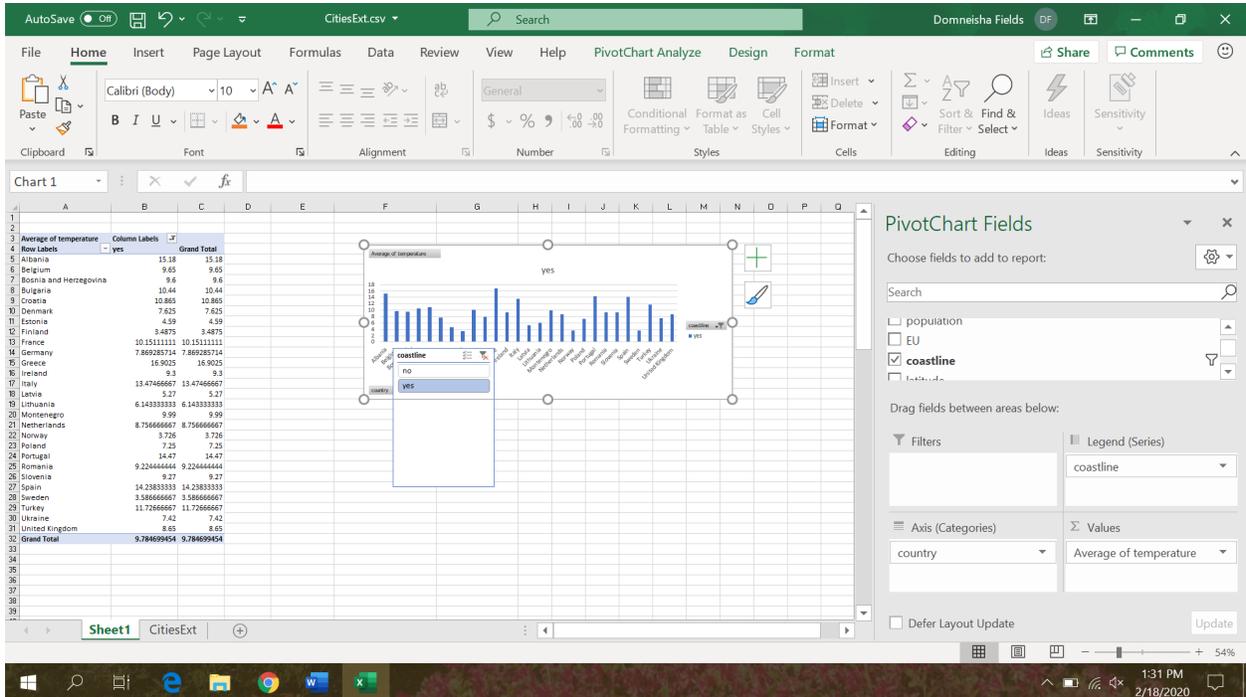
- b) Find average temperature by country:  
for the “Axis” field select: Country.  
Next, for the “Values” field select: temperature.  
Once you completed the above step, use the drop down in the “Values” field, and select Value Field Settings, then select “AVERAGE.” See the results below.



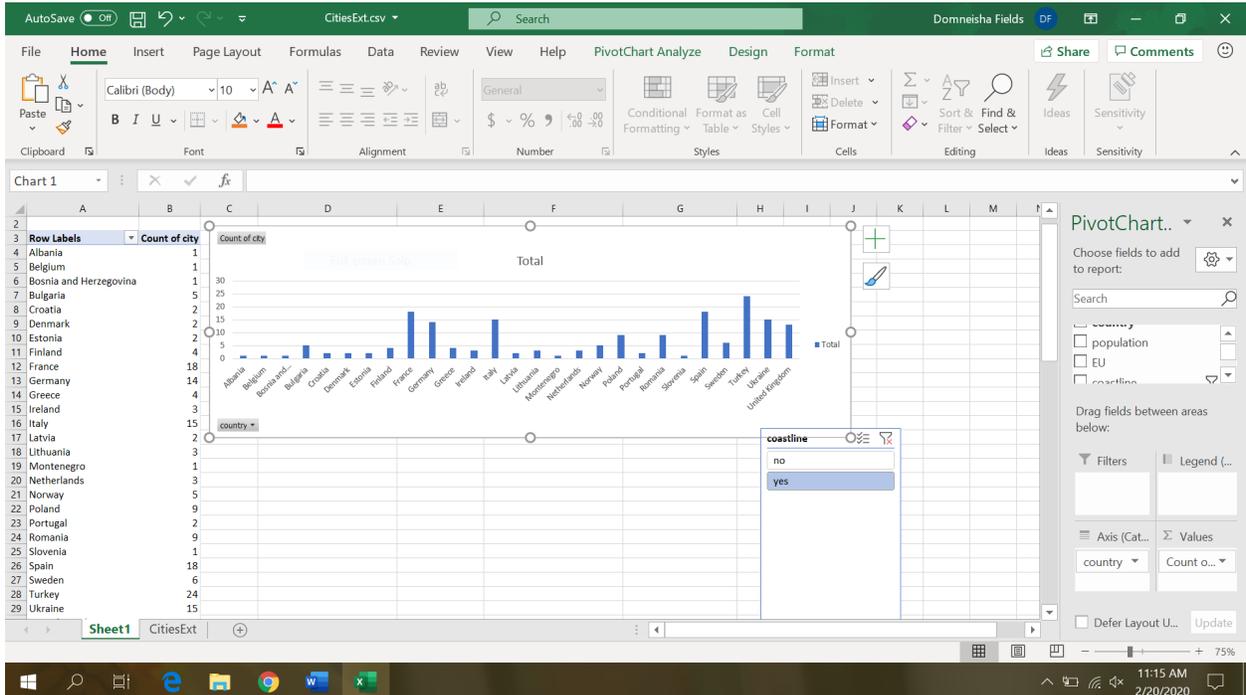
- c) Find average temperature for each coastline-EU combination:  
 Axis: coastline,  
 Legend: EU,  
 Values: temperature (select the drop down and then select AVERAGE)  
 then add "population" to Values. (select the drop down and then select MAX)  
 Your screen should look like this.



- 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

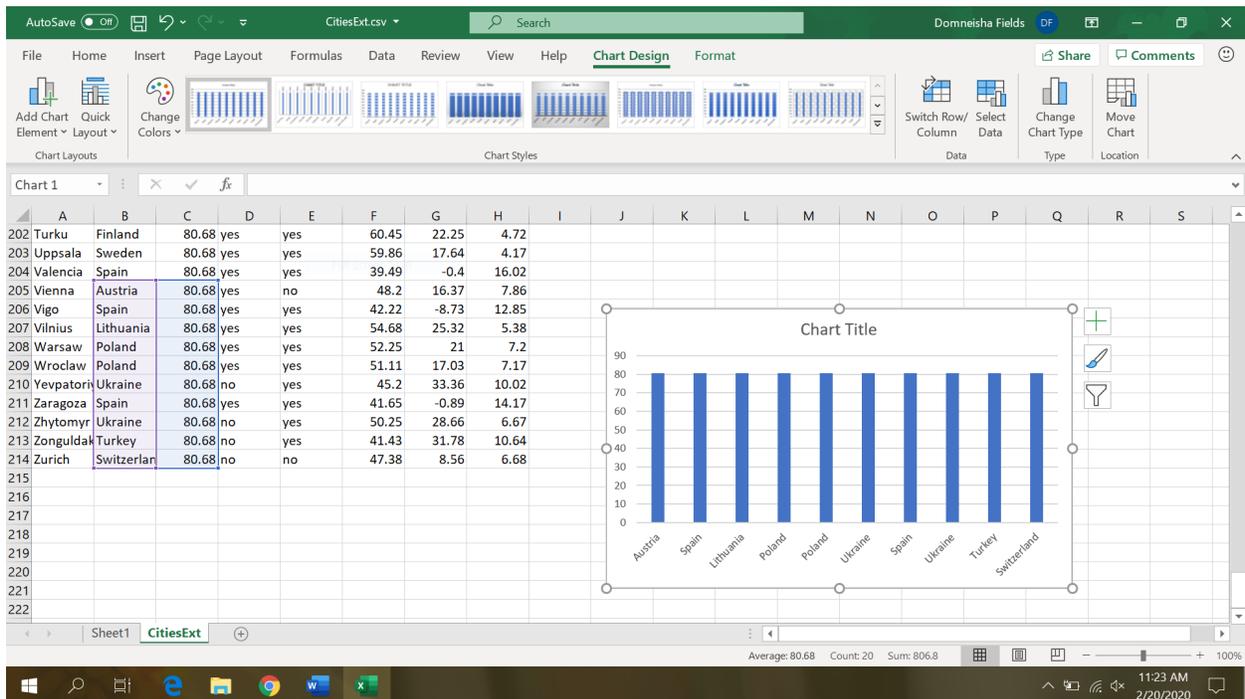


## 2. Your Turn

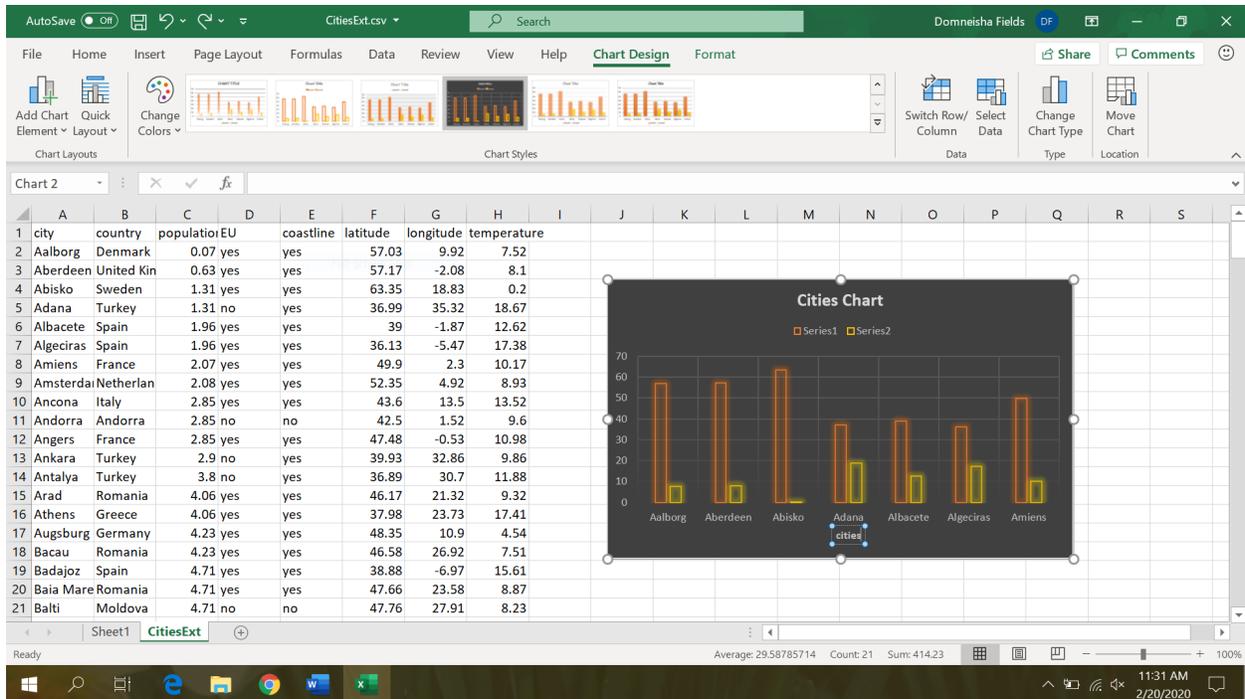
- Find the average longitude of all countries organized as coastline countries vs. non coastline countries and sorted by the average. \_\_\_\_\_
- Find the average longitude of all coastline countries sorted by the average longitude. \_\_\_\_\_
- Find five warmest cities in EU and not in EU. \_\_\_\_\_

## 3. Charts

- 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.



- 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

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