Chapter 10

# Try it Yourself: Compare Cluster Analysis Results

Create the scatterplot without clustering.

1. Open the small\_music.csv dataset.

2. Select columns A and B with danceability and energy data.

3. Click “Insert” tab.

4. Select “Scatter” under “Insert Scatter (X, Y) or Bubble Chart”.

The clustering results are listed in clusters2, clusters4, and clusters 6 columns as the number of assigned cluster for each observation.

Create the scatterplot for two clusters.

Name two empty columns (G and H) as “clusters2\_1” and “clusters2\_2”.

Enter the following expression in cell G2:  
=IF(D2=1,B2,NA())

Auto-fill the rest of the column using this cell.

Enter the following expression in cell H2:  
=IF(D2=2,B2,NA())

Auto-fill the rest of the column using this cell.

Click “Insert” tab.

Select “Scatter” under “Insert Scatter (X, Y) or Bubble Chart”.

Right-click the chart -> “Select Data”

Click “Add”

Enter “Series X values”:  
=small\_music!$A$2:$A$161

Enter “Series Y values”:  
=small\_music!$G$2:$G$161

Click “OK”

Repeat steps 9-12 with Y values  
=small\_music!$H$2:$H$161

Click “OK”

Repeat this procedure to create scatterplots based on clusters4 and clusters6 data. This will require creating additional four and six columns, respectively, for the energy values in each separate cluster and adding each of them to the scatterplot.