# Hierarchical clustering of crime data

Perform clustering for the crime data and identify the number of clusters formed and draw inferences.

Data Description:

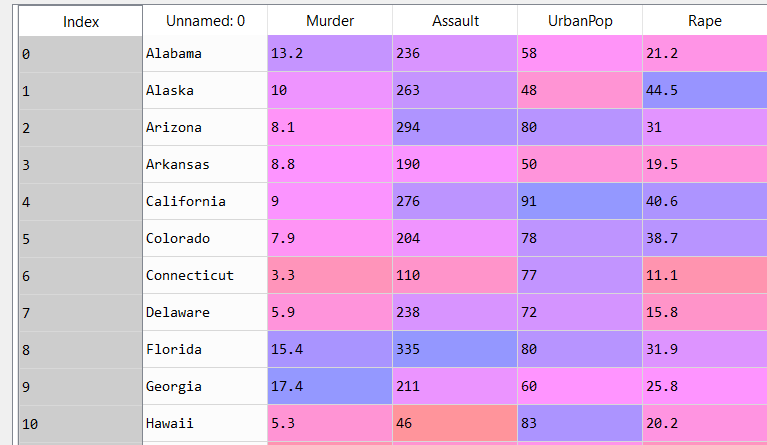
Murder -- Muder rates in different places of United States

Assualt- Assualt rate in different places of United States

UrbanPop - urban population in different places of United States

Rape - Rape rate in different places of United States

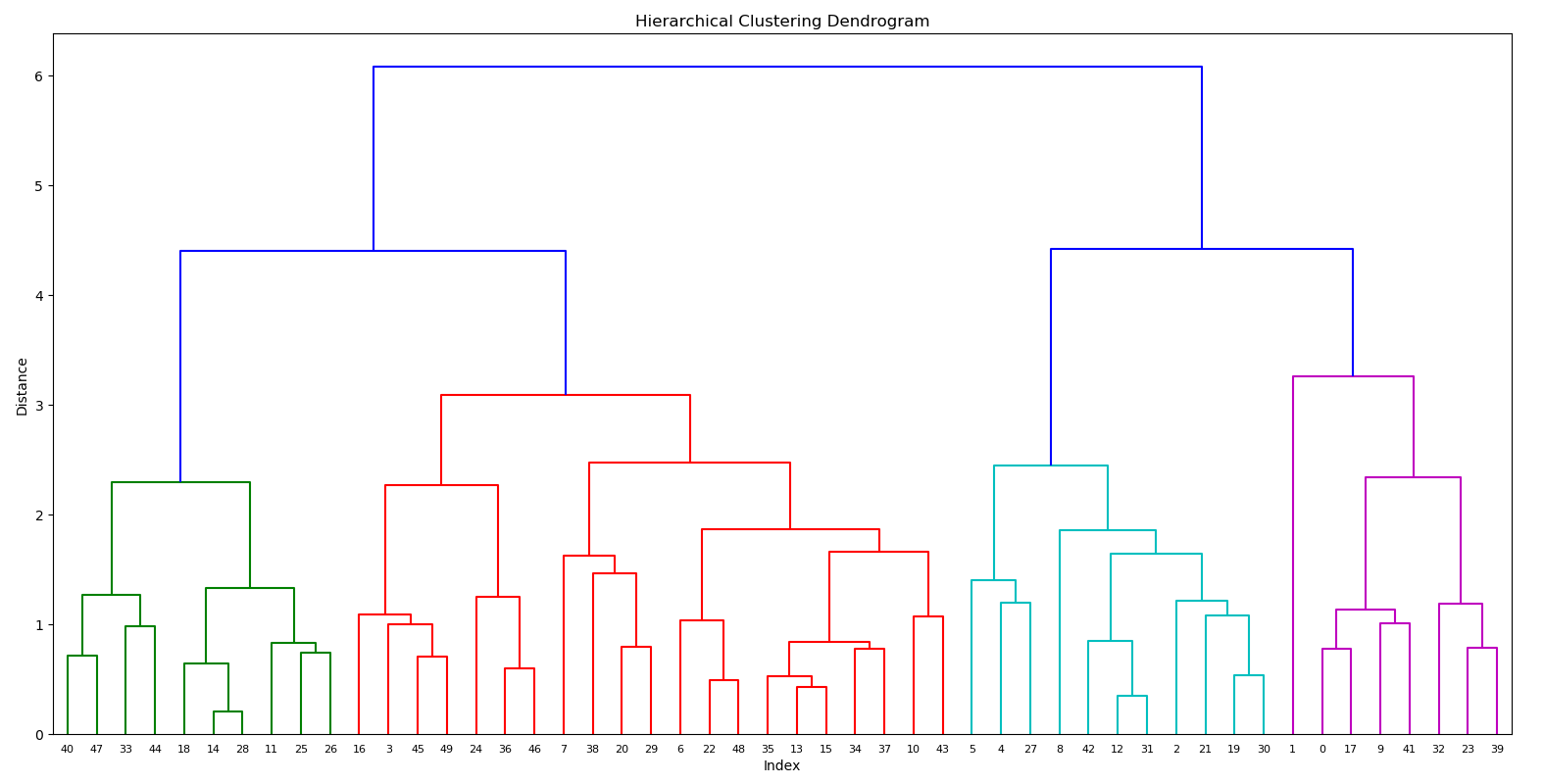
The following is the first ten data sets of crime data



Due to drastic differences in scales we normalize the above data and obtain the following:



Bases on Euclidian distance we implement the metrics to obtain a dendrogram as follows:



Based on the above classification. We cluster the data points into four groups. The following is the classification result:

