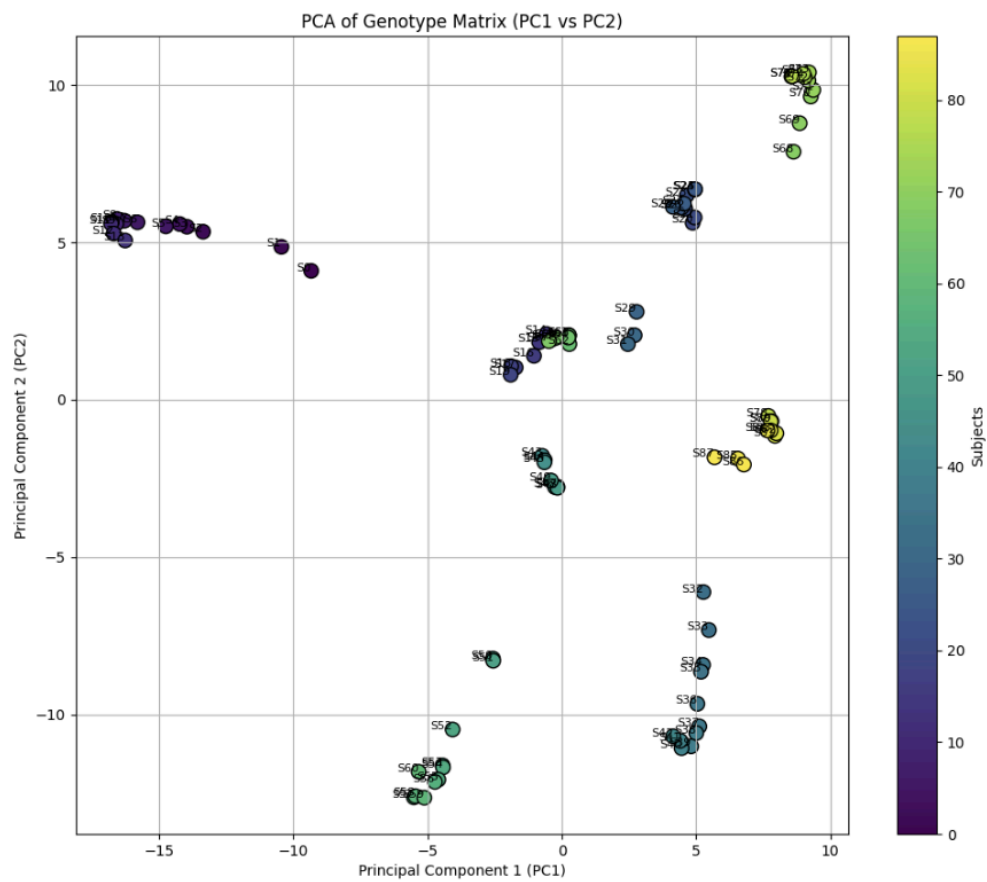
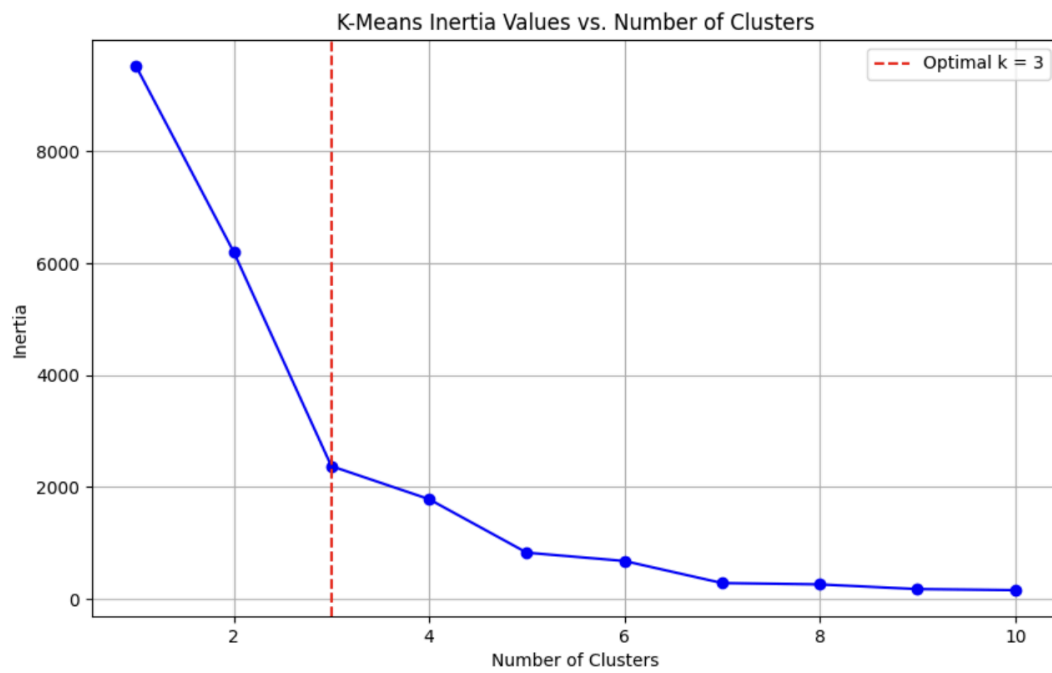


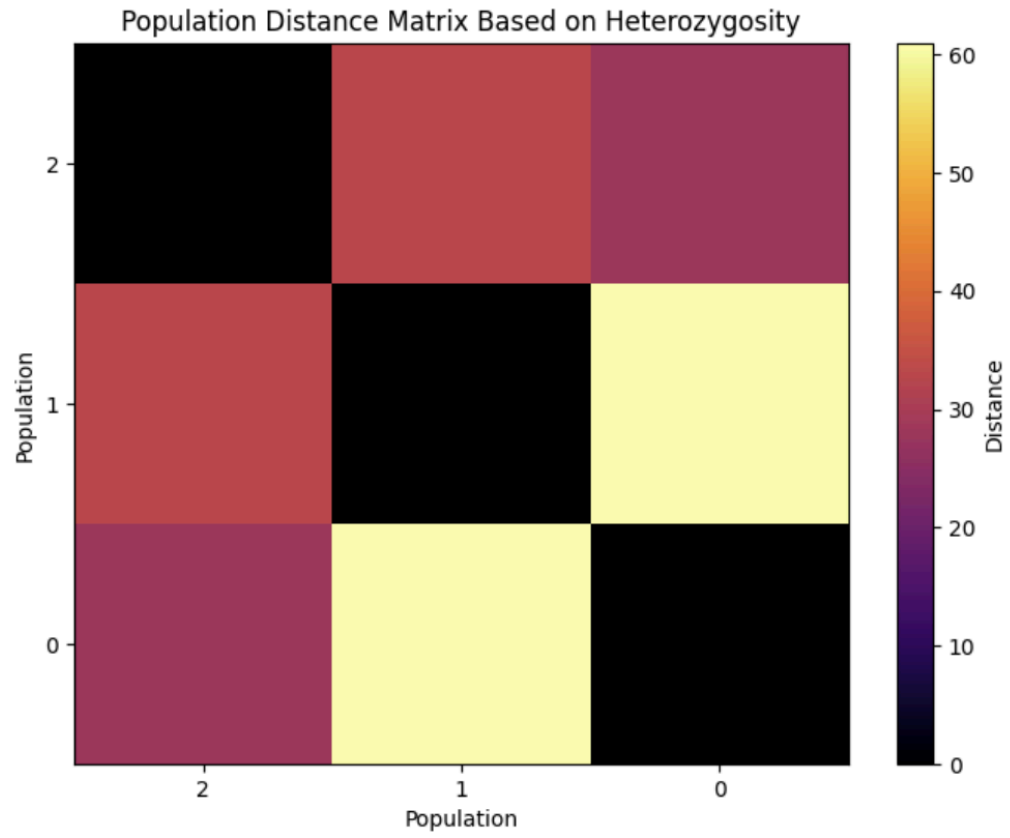
PCA without NaN values / columns removed



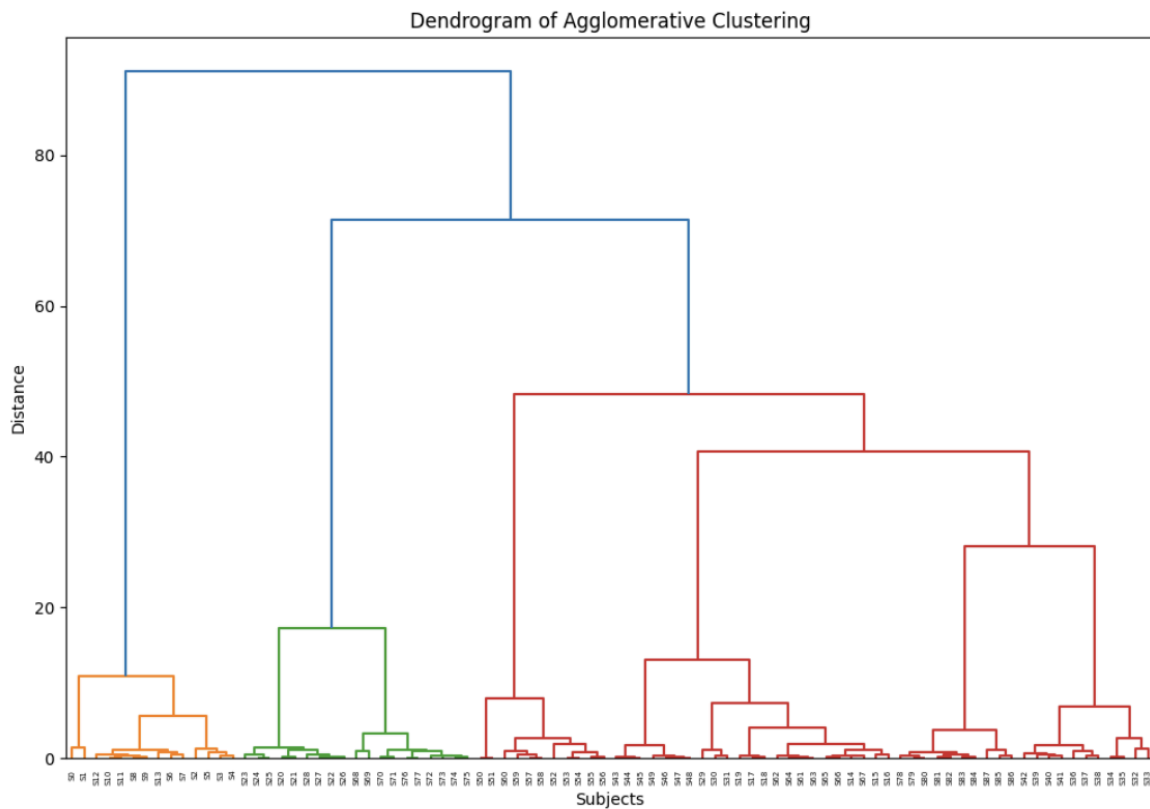
PCA with NaN values / columns removed



Inertia values mapped against the number of clusters. The position of the knee is at the optimal number of clusters at 3 clusters.



Distance matrix heat map



This shows the dendrogram constructed by applying agglomerative clustering to my distance matrix heat map.

This dendrogram can allow us to hypothesize that the origin of these subjects were from populations that may have diverged away from each other due to external factors. The clustering shows us that certain subjects are much similar together than other subjects. I hypothesize that subjects that are closer together may have undergone similar external factors such as environmental changes or their populations have been segregated together away from a further clustered population on the dendrogram.