1. Min4.png
2. Max4.png
3. Yes there are ﻿areas, a cluster o﻿f data points﻿, that ﻿remained in a single cluster﻿ for both the shortest and longest distance measures.

Yes there are exactly two data points that are allocated to a different cluster depending on the distance measure.

The shortest distance is a better fit (allocation) because it has it has data points that are closer to those points (*i.e.* the outliers).

4. Avg4.png

5. Assignment2.m

6. From the dendrogram we can see few difficult points allocated into a cluster, to the right side of the X axis.

We would definitely stop before this allocation or clustering happens. The ideal number of clusters would 4 clusters or 5 clusters at the best but nothing more than that.

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