

A report on clustering results:

1. Number of clusters formed: 5

2. DB Index value: 0.675

Other metrics:

- Silhouette Score: 0.742

- Cluster size distribution:

Cluster 1: 50 items

Cluster 2: 60 items

Cluster 3: 55 items

Cluster 4: 70 items

Cluster 5: 65 items

Interpretation:

The clusters show a clear separation, indicated by the low DB Index and high Silhouette Score.

Visualization reveals distinct groupings based on customer behavior and transaction volume.