1. 详见 `train_normalized.csv`

2.

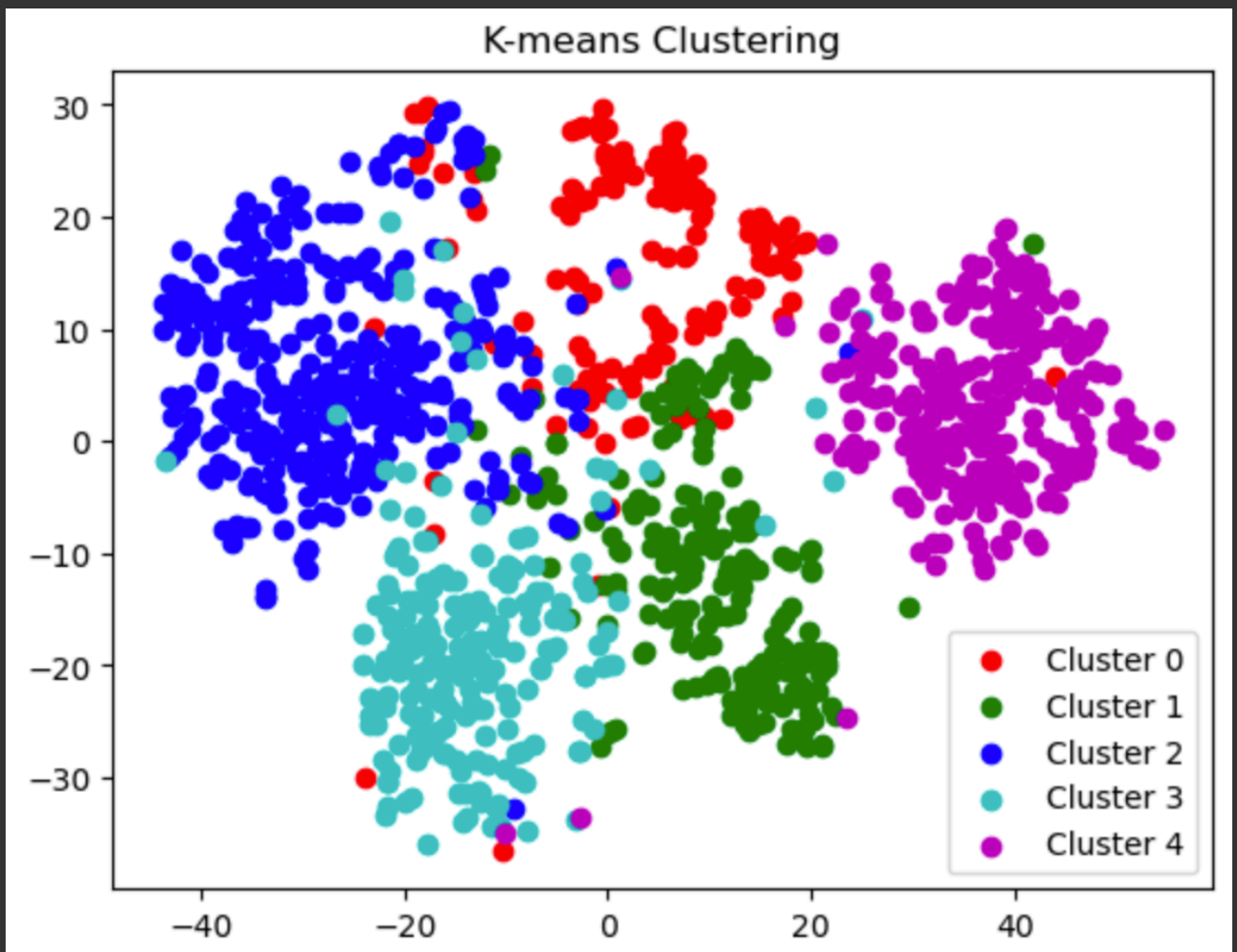
```
Cluster Counts:
2    339
4    263
1    214
3    206
0    146
Name: Cluster, dtype: int64
```

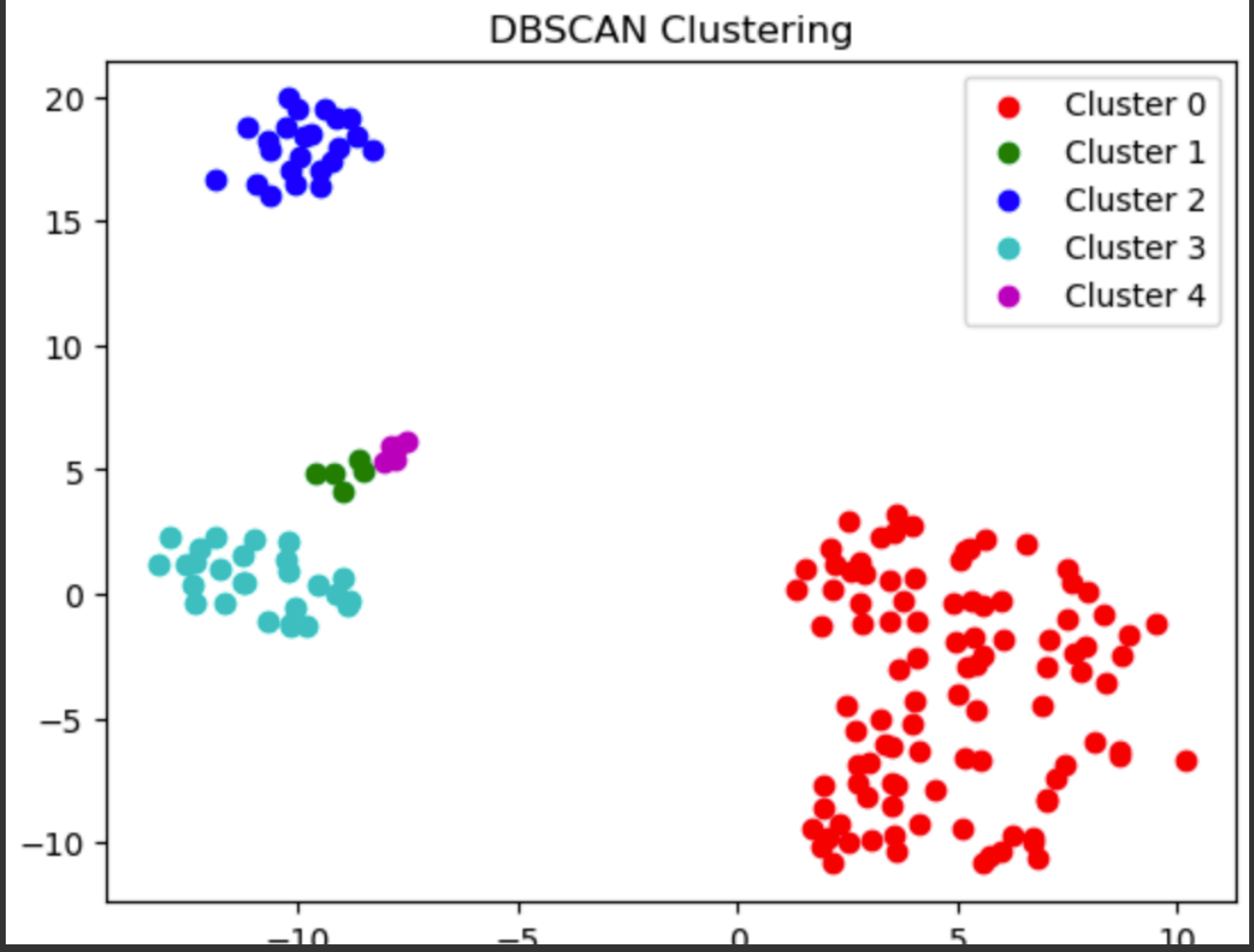
3.

```
[15]
# 输出聚类结果
print("Number of clusters:", n_clusters)
```

```
Number of clusters: 8
```

4.


K-means Clustering
30
20
10
0
−10
−20
−30
−40
−20
0
20
40
Cluster 0
Cluster 1
Cluster 2
Cluster 3
Cluster 4


DBSCAN Clustering
20
15
10
5
0
−5
−10
−10
−5
0
5
10
Cluster 0
Cluster 1
Cluster 2
Cluster 3
Cluster 4