\*\*\* : The Hubert index is a graphical method of determining the number of clusters.

In the plot of Hubert index, we seek a significant knee that corresponds to a

significant increase of the value of the measure i.e the significant peak in Hubert

index second differences plot.

\*\*\* : The D index is a graphical method of determining the number of clusters.

In the plot of D index, we seek a significant knee (the significant peak in Dindex

second differences plot) that corresponds to a significant increase of the value of

the measure.

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

\* Among all indices:

\* 5 proposed 2 as the best number of clusters

\* 5 proposed 3 as the best number of clusters

\* 2 proposed 5 as the best number of clusters

\* 2 proposed 6 as the best number of clusters

\* 1 proposed 7 as the best number of clusters

\* 1 proposed 8 as the best number of clusters

\* 3 proposed 9 as the best number of clusters

\* 4 proposed 10 as the best number of clusters

\*\*\*\*\* Conclusion \*\*\*\*\*

\* According to the majority rule, the best number of clusters is 2

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

\*\*\* : The Hubert index is a graphical method of determining the number of clusters.

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the measure.

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

\* Among all indices:

\* 4 proposed 2 as the best number of clusters

\* 3 proposed 3 as the best number of clusters

\* 3 proposed 4 as the best number of clusters

\* 6 proposed 5 as the best number of clusters

\* 1 proposed 9 as the best number of clusters

\* 6 proposed 10 as the best number of clusters

\*\*\*\*\* Conclusion \*\*\*\*\*

\* According to the majority rule, the best number of clusters is 5

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

\*\*\* : The Hubert index is a graphical method of determining the number of clusters.

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the measure.

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

\* Among all indices:

\* 4 proposed 2 as the best number of clusters

\* 6 proposed 3 as the best number of clusters

\* 2 proposed 6 as the best number of clusters

\* 4 proposed 7 as the best number of clusters

\* 1 proposed 8 as the best number of clusters

\* 6 proposed 10 as the best number of clusters

\*\*\*\*\* Conclusion \*\*\*\*\*

\* According to the majority rule, the best number of clusters is 3

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

\*\*\* : The Hubert index is a graphical method of determining the number of clusters.

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the measure.

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

\* Among all indices:

\* 5 proposed 2 as the best number of clusters

\* 5 proposed 3 as the best number of clusters

\* 1 proposed 4 as the best number of clusters

\* 6 proposed 5 as the best number of clusters

\* 2 proposed 7 as the best number of clusters

\* 1 proposed 9 as the best number of clusters

\* 3 proposed 10 as the best number of clusters

\*\*\*\*\* Conclusion \*\*\*\*\*

\* According to the majority rule, the best number of clusters is 5

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

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the measure.

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

\* Among all indices:

\* 4 proposed 2 as the best number of clusters

\* 3 proposed 3 as the best number of clusters

\* 2 proposed 5 as the best number of clusters

\* 10 proposed 6 as the best number of clusters

\* 3 proposed 7 as the best number of clusters

\* 1 proposed 10 as the best number of clusters

\*\*\*\*\* Conclusion \*\*\*\*\*

\* According to the majority rule, the best number of clusters is 6

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

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the measure.

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

\* Among all indices:

\* 4 proposed 2 as the best number of clusters

\* 4 proposed 3 as the best number of clusters

\* 1 proposed 5 as the best number of clusters

\* 11 proposed 6 as the best number of clusters

\* 1 proposed 7 as the best number of clusters

\* 2 proposed 10 as the best number of clusters

\*\*\*\*\* Conclusion \*\*\*\*\*

\* According to the majority rule, the best number of clusters is 6

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

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the measure.

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

\* Among all indices:

\* 6 proposed 2 as the best number of clusters

\* 3 proposed 3 as the best number of clusters

\* 5 proposed 4 as the best number of clusters

\* 6 proposed 6 as the best number of clusters

\* 3 proposed 10 as the best number of clusters

\*\*\*\*\* Conclusion \*\*\*\*\*

\* According to the majority rule, the best number of clusters is 2

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

\*\*\* : The Hubert index is a graphical method of determining the number of clusters.

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the measure.

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

\* Among all indices:

\* 7 proposed 2 as the best number of clusters

\* 4 proposed 3 as the best number of clusters

\* 4 proposed 4 as the best number of clusters

\* 1 proposed 5 as the best number of clusters

\* 1 proposed 6 as the best number of clusters

\* 2 proposed 8 as the best number of clusters

\* 2 proposed 9 as the best number of clusters

\* 2 proposed 10 as the best number of clusters

\*\*\*\*\* Conclusion \*\*\*\*\*

\* According to the majority rule, the best number of clusters is 2

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

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the measure.

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

\* Among all indices:

\* 6 proposed 2 as the best number of clusters

\* 5 proposed 3 as the best number of clusters

\* 5 proposed 4 as the best number of clusters

\* 1 proposed 5 as the best number of clusters

\* 1 proposed 7 as the best number of clusters

\* 1 proposed 8 as the best number of clusters

\* 4 proposed 10 as the best number of clusters

\*\*\*\*\* Conclusion \*\*\*\*\*

\* According to the majority rule, the best number of clusters is 2

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

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\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

\* Among all indices:

\* 5 proposed 2 as the best number of clusters

\* 4 proposed 3 as the best number of clusters

\* 1 proposed 4 as the best number of clusters

\* 3 proposed 5 as the best number of clusters

\* 5 proposed 6 as the best number of clusters

\* 3 proposed 8 as the best number of clusters

\* 2 proposed 10 as the best number of clusters

\*\*\*\*\* Conclusion \*\*\*\*\*

\* According to the majority rule, the best number of clusters is 2

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

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\* Among all indices:

\* 5 proposed 2 as the best number of clusters

\* 3 proposed 3 as the best number of clusters

\* 2 proposed 4 as the best number of clusters

\* 1 proposed 5 as the best number of clusters

\* 7 proposed 6 as the best number of clusters

\* 3 proposed 8 as the best number of clusters

\* 2 proposed 9 as the best number of clusters

\*\*\*\*\* Conclusion \*\*\*\*\*

\* According to the majority rule, the best number of clusters is 6

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

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\* Among all indices:

\* 7 proposed 2 as the best number of clusters

\* 4 proposed 3 as the best number of clusters

\* 1 proposed 4 as the best number of clusters

\* 2 proposed 5 as the best number of clusters

\* 4 proposed 6 as the best number of clusters

\* 3 proposed 9 as the best number of clusters

\* 2 proposed 10 as the best number of clusters

\*\*\*\*\* Conclusion \*\*\*\*\*

\* According to the majority rule, the best number of clusters is 2

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

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\* Among all indices:

\* 5 proposed 2 as the best number of clusters

\* 4 proposed 3 as the best number of clusters

\* 1 proposed 4 as the best number of clusters

\* 7 proposed 5 as the best number of clusters

\* 1 proposed 7 as the best number of clusters

\* 1 proposed 8 as the best number of clusters

\* 4 proposed 10 as the best number of clusters

\*\*\*\*\* Conclusion \*\*\*\*\*

\* According to the majority rule, the best number of clusters is 5

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

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\* Among all indices:

\* 4 proposed 2 as the best number of clusters

\* 5 proposed 3 as the best number of clusters

\* 10 proposed 5 as the best number of clusters

\* 1 proposed 6 as the best number of clusters

\* 2 proposed 9 as the best number of clusters

\* 1 proposed 10 as the best number of clusters

\*\*\*\*\* Conclusion \*\*\*\*\*

\* According to the majority rule, the best number of clusters is 5

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

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\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

\* Among all indices:

\* 3 proposed 2 as the best number of clusters

\* 7 proposed 3 as the best number of clusters

\* 1 proposed 4 as the best number of clusters

\* 5 proposed 5 as the best number of clusters

\* 1 proposed 6 as the best number of clusters

\* 1 proposed 8 as the best number of clusters

\* 1 proposed 9 as the best number of clusters

\* 4 proposed 10 as the best number of clusters

\*\*\*\*\* Conclusion \*\*\*\*\*

\* According to the majority rule, the best number of clusters is 3