

Question

- Which of the following statements about probabilistic hierarchical clustering is FALSE:
 - □ When measuring the quality of a clustering, we take the product of the likelihood of each individual cluster.
 - □ Two clusters are merged if their distance defined in the probabilistic setting is > 0.
 - Probabilistic hierarchical clustering is considered a generative model: the set of data objects to be clustered is assumed to be drawn from some underlying data generation mechanism.
- □ Answer: Second option. We only merge two clusters if their distance is < 0, which results in an increase in the clustering quality.