



Lesson 5 Quiz

Quiz, 4 questions

1
point

1.

In the DBSCAN algorithm, given Eps and Minpts, if a point p is **density-connected** to a point q, which of the following statements are correct? Select all that apply.

- ☐ Point p may be density-reachable from q but not necessarily.
- ☐ Point q is directly density-reachable from p.
- ☐ Point q is density-connected to p.
- ☐ Point p must be density-reachable from q.

1
point

2.

wrong

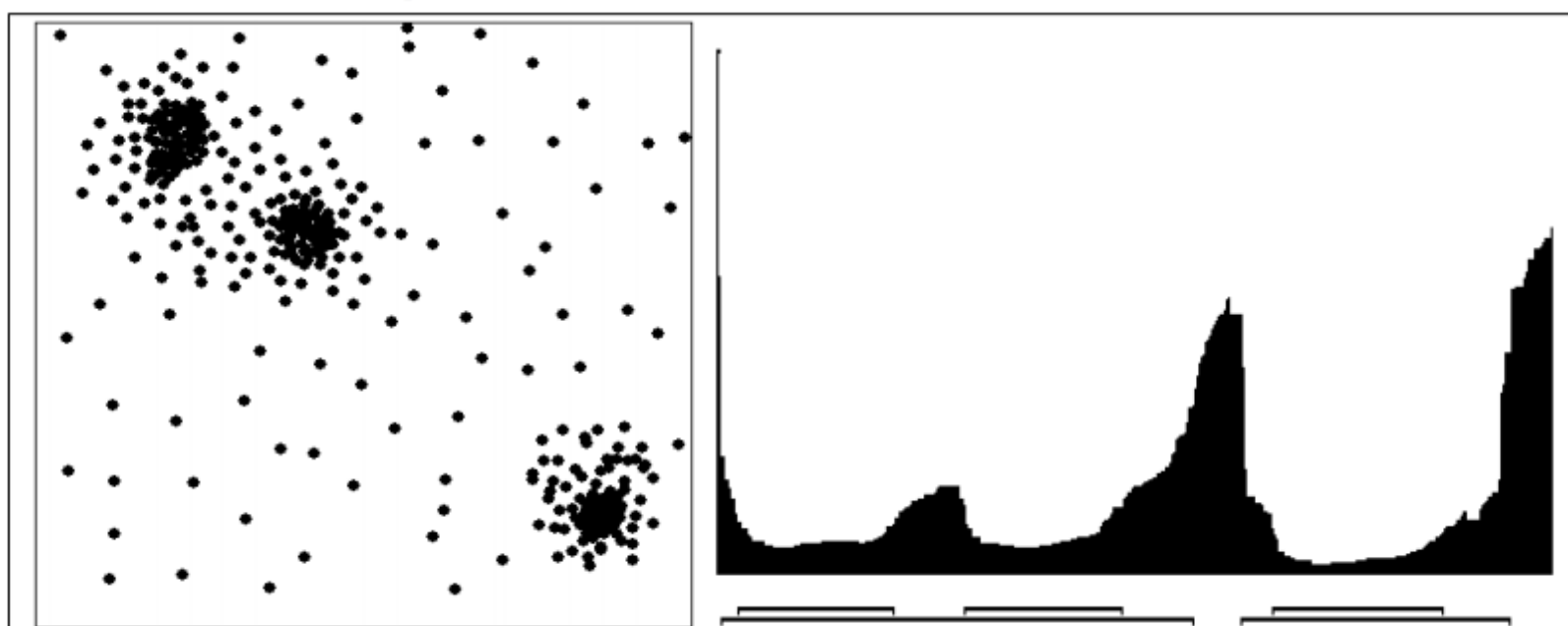
In the DBSCAN algorithm, suppose $\text{eps} = 1\text{cm}$ and $\text{Minpts} = 1$. Randomly select two points p, q from the observed data points. We have $\text{dist}(p, q) = 4\text{cm}$. Which of the following statements are correct? Select all that apply.

- ☐ Points p and q must be in different clusters.
- ☐ Points p and q may be in different clusters.
- ☐ Points p and q must be in the same cluster.
- ☐ Points p and q may not belong to any clusters.

1
point

3.

Given the following synthetic data set (left) and, the reachability-plot (right), how many clusters might there be by setting different reachability thresholds?



- ☐ 1
- ☐ 2
- ☐ 3

←

3

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More than 3

All of Above

1

point

- 4.
- Considering the CLIQUE clustering algorithm, which of the following statements are correct? Select all that apply.
- ☐

Any point that belongs to a cluster in a 1-D subspace A may not belong to any clusters (dense regions) in any 2-D subspaces that includes A.
- ☐

Any point that does not belong to a cluster in a 1-D subspace A must not belong to any clusters (dense regions) in any 2-D subspaces that includes A.
- ☐

Any point that does not belong to a cluster in a 1-D subspace A may belong to some cluster (dense region) in any 2-D subspace that includes A.
- ☐

Any point that belongs to a cluster in a 1-D subspace A must belong to some cluster (dense region) in any 2-D subspace that includes A.

☐

I, **Yuhui Chou**, understand that submitting work that isn't my own may result in permanent failure of this course or deactivation of my Coursera account.

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