# Lesson 5 Quiz

测验, 4 个问题

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**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 q is density-connected to p.

- ☑ Point p may be density-reachable from q but not necessarily.

- ☐ Point p must be density-reachable from q.

- ☐ Point q is directly density-reachable from p.

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**1**
point

## 2。

In the DBSCAN algorithm, suppose eps = 4cm and Minpts = 5. Randomly select two points p, q from the observed data points. We have dist(p, q) = 1cm. Which of the following statements are correct? Select all that apply.

- ☐ Points p and q must be in the same cluster.

- ☐ Points p and q must be in different clusters.

- ☑ Points p and q may be in different clusters.

- ☑ Points p and q may not belong to any clusters.

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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
- ○ More than 3
- ● All of Above

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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 must 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 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 may belong to some cluster (dense region) in any 2-D subspace 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.

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