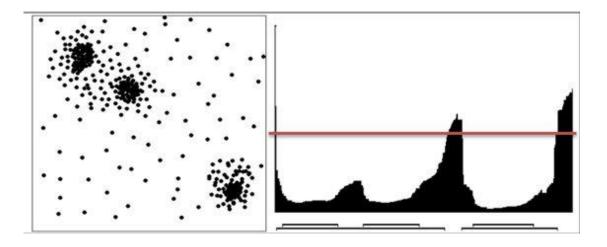
Lesson 5 Quiz

TOTAL POINTS 4

1.		the DBSCAN algorithm, given Eps and Minpts, if a point p is density-reachable from a nt q, which of the following statements are correct? Select all that apply.	1 point
		Point p must be directly density-reachable from q.	
	~	Point q is density-connected to p.	
	✓	If there exists one point o density-reachable from p, then o is also density-reachable from q.	
		Point q is also density-reachable from p.	
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.		1 point
	~	Points p and q may not belong to any clusters.	
		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.	
3.			1 point

Given the following synthetic data set (left) and the reachability-plot (right), how many clusters would there be if we set the threshold to be the red line in the right figure?



- 2
- \bigcirc 3
- **4**
- **5**
- 4. Considering the CLIQUE clustering algorithm, which of the following statements are correct? Select all that apply.

1 point

- 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.
- I, BAL KRISHNA NYAUPANE, 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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