## **DBSCAN: Density-Reachable and Density-Connected**

## **□** Directly density-reachable:

- $\square$  A point p is directly density-reachable from a point q w.r.t. Eps ( $\varepsilon$ ), MinPts if
  - $\square$  p belongs to  $N_{Eps}(q)$
  - □ core point condition:  $|N_{EDS}(q)| \ge MinPts$

## **□** Density-reachable:

■ A point p is density-reachable from a point q w.r.t. Eps, MinPts if there is a chain of points  $p_1$ , ...,  $p_n$ ,  $p_1 = q$ ,  $p_n = p$  such that  $p_{i+1}$  is directly density-reachable from  $p_i$ 

## **□** Density-connected:

□ A point p is density-connected to a point q w.r.t. Eps, MinPts if there is a point o such that both p and q are density-reachable from o w.r.t. Eps and MinPts

