

CLIQUE: Grid-Based Subspace Clustering

- ❑ CLIQUE (Clustering In QUest) (Agrawal, Gehrke, Gunopulos, Raghavan: SIGMOD'98)
- ❑ CLIQUE is a **density-based** and **grid-based** **subspace clustering** algorithm
 - ❑ **Grid-based**: It discretizes the data space through a grid and estimates the density by counting the number of points in a grid cell
 - ❑ **Density-based**: A cluster is a maximal set of connected dense units in a subspace
 - ❑ A unit is dense if the fraction of total data points contained in the unit exceeds the input model parameter
 - ❑ **Subspace clustering**: A subspace cluster is a set of neighboring dense cells in an arbitrary subspace. It also discovers some minimal descriptions of the clusters
- ❑ It automatically identifies subspaces of a high dimensional data space that allow better clustering than original space using the Apriori principle