Unsupervised ML quyidagi turlarga bo`linadi

1-Clustering

2-Dimentionality Reduction

3-Anomaly Detection

Clustering

Grouping Similar data points

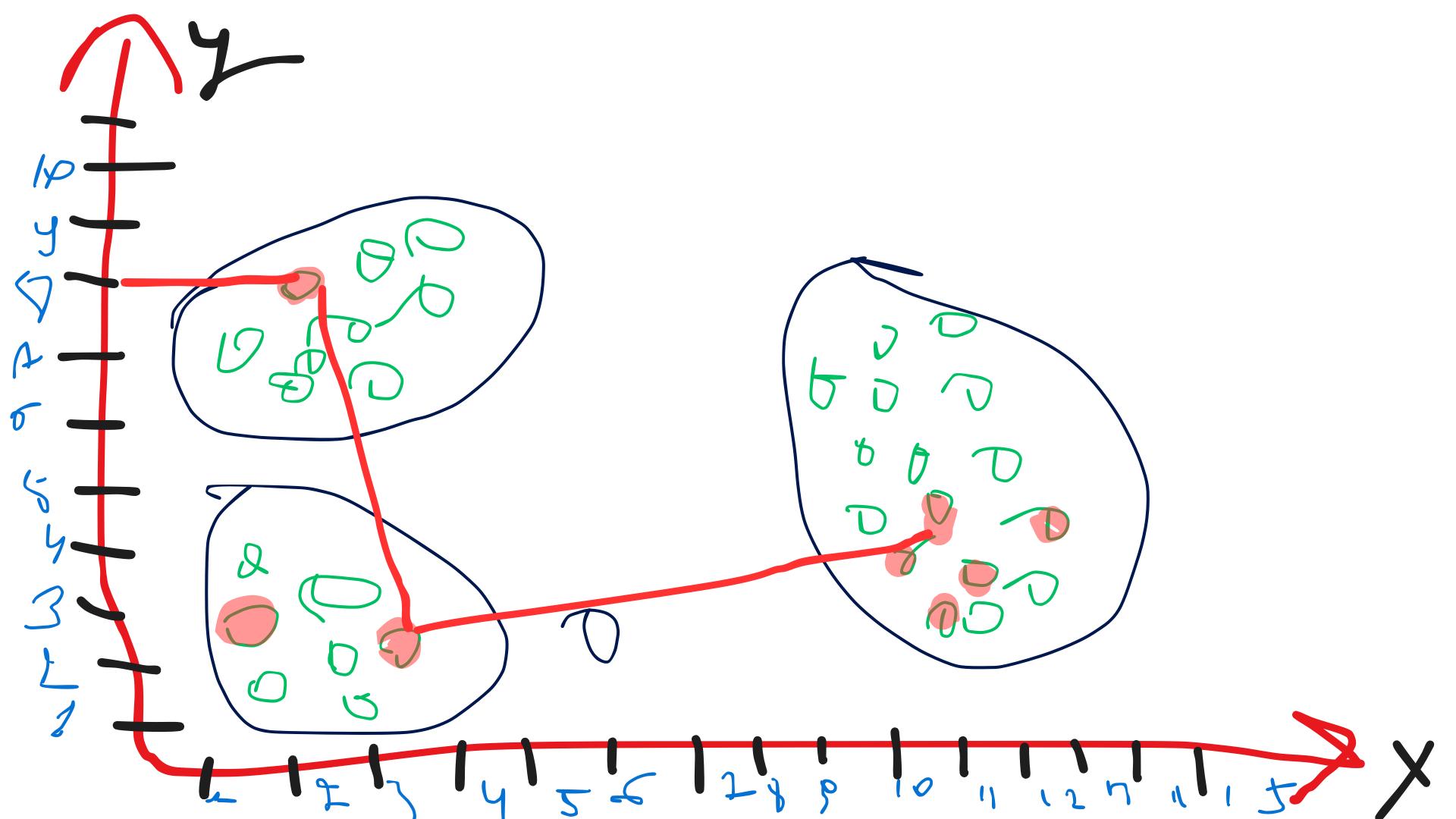
(o`xshash malumotlarni guruhlaydi)

Applications

- Google >> o`xshash malumotlari
- Insonlarda Gen Taxlili
- Yulduzlar taxlil

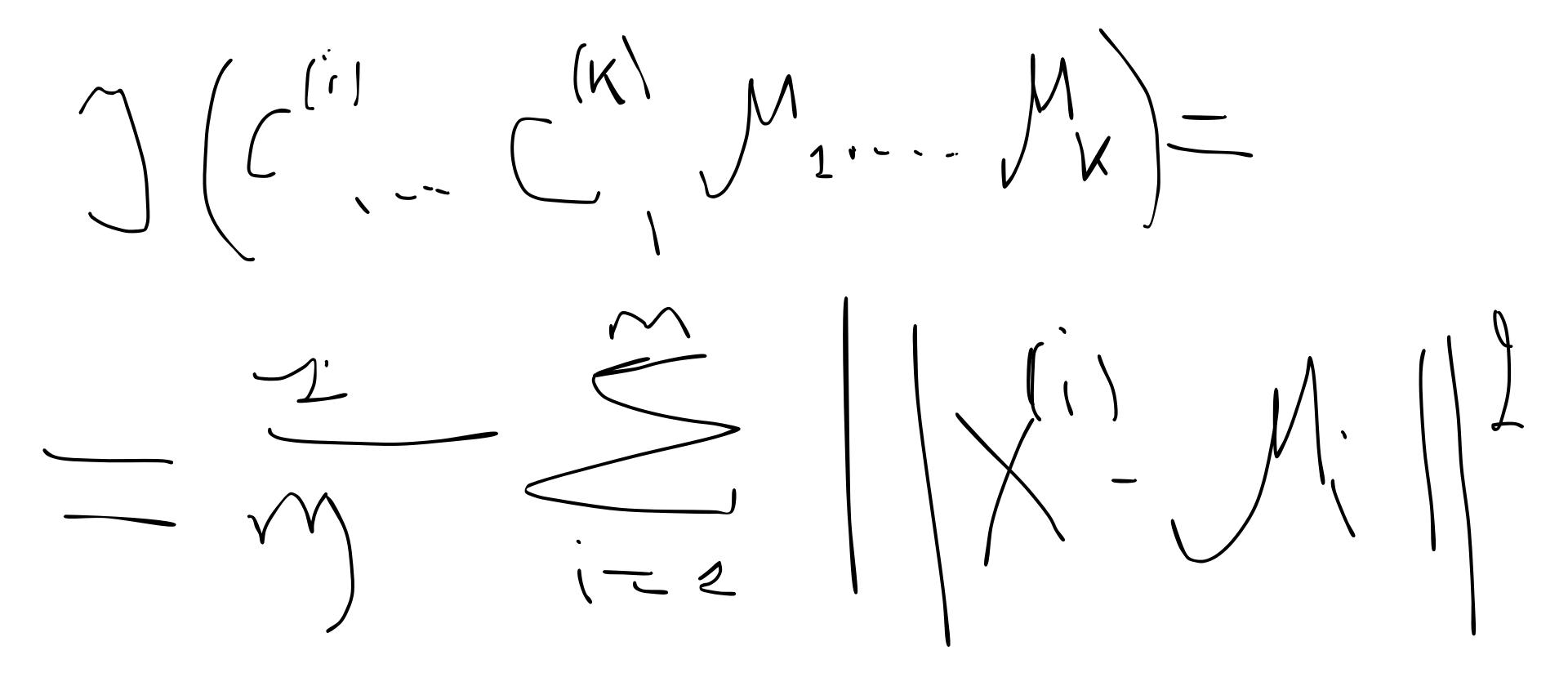
Algoritm

- K-Means Clustering
- Assign cluster centroid
- Move cluster centroid
- K-number of cluster



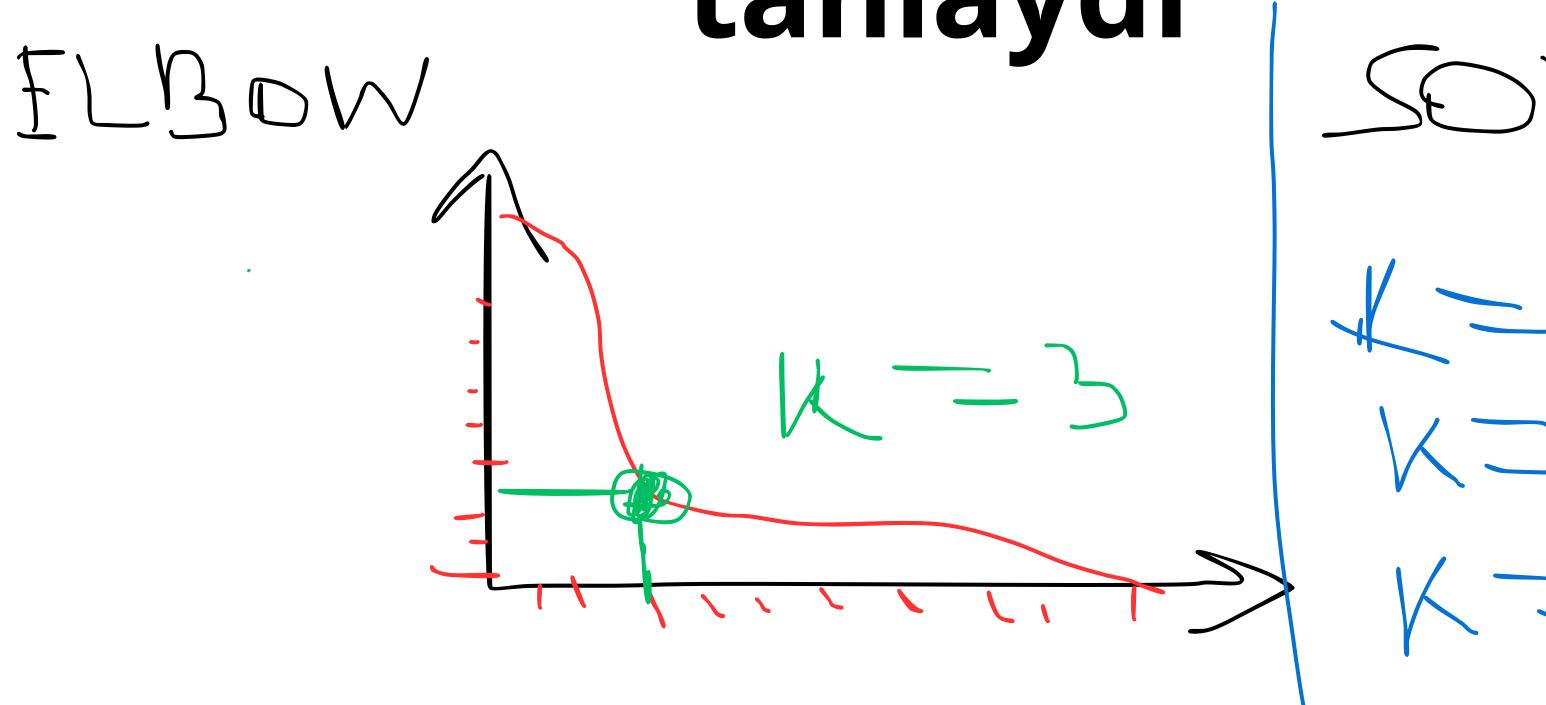
M — X + X 3 + X 5 — X 5

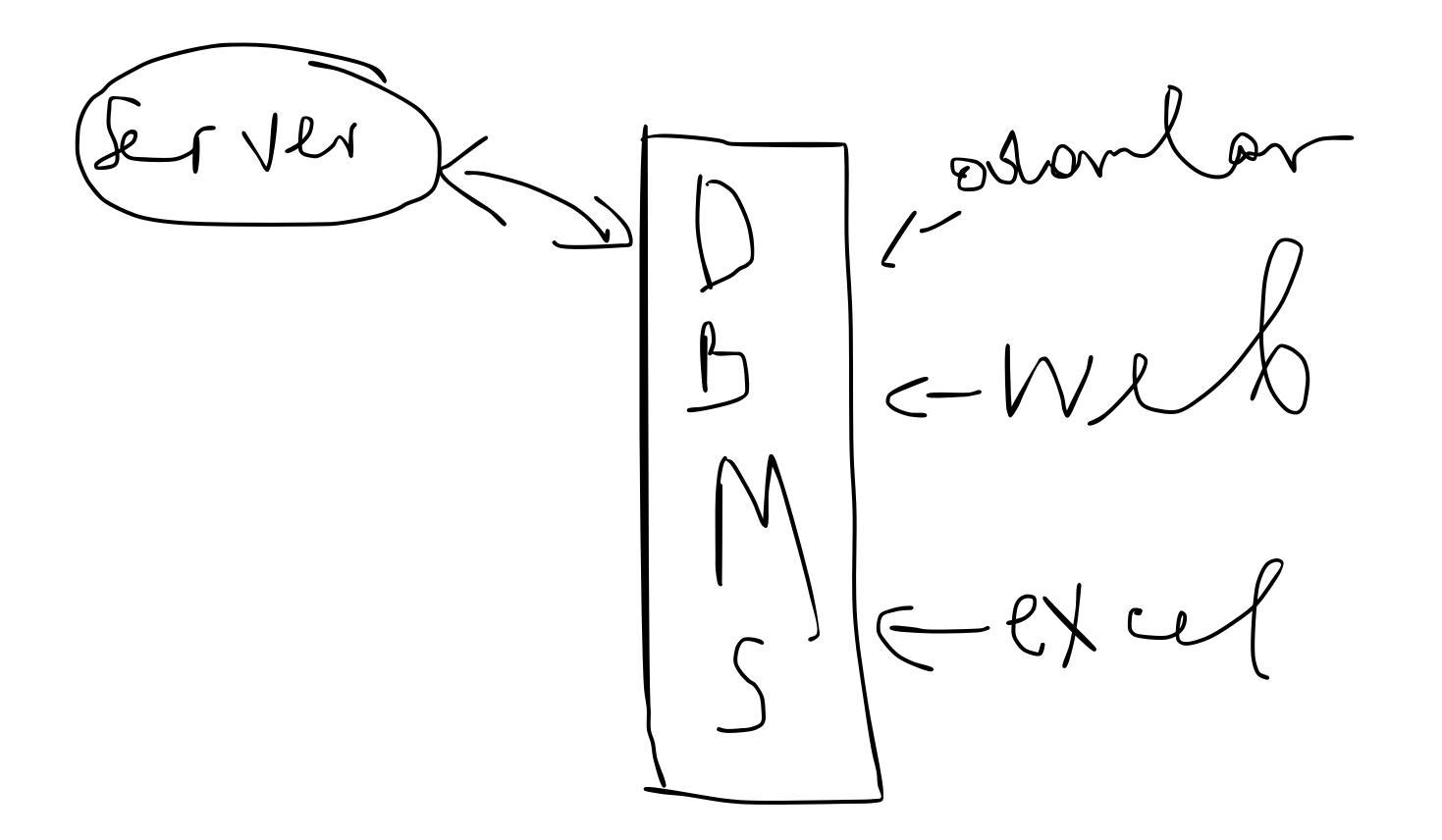
M (3,2) + (3,2) + (4,4)



M= Centrois Le Clustar

Qanday clusterlar sonini tanlaydi





Big Touton => Dotation =>

SQL-Structured.

Manya - unstructured grery Conquerces