

RAG

- 1 Multimodel RAG
- 2 CAG
- 3 Agentic RAG.
- 4 Graph RAG.

VectorDB =

{ 4-5 }

Agents = Langgraph, CrewAI

{ 4-5 }

1 SQL Based Database MySQL

2 NoSQL Database MONGODB

3 vectorDB FATSS, PINECON, WAVITE

Vector \Rightarrow Set of numbers

vector DB \Rightarrow [0.1, 0.5, 0, 0.7, 0.9, 1] \leftarrow vectorDB
[0.1, 0.5] \leftarrow retrieval



[[]]

[[[]]]

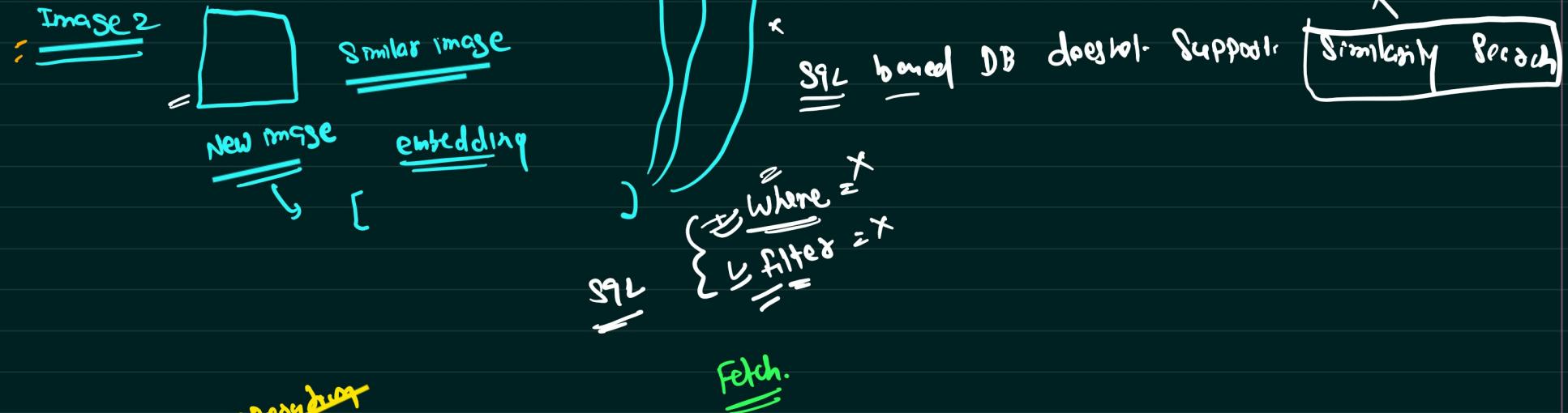
SQL

TABULAR =

Structure
data

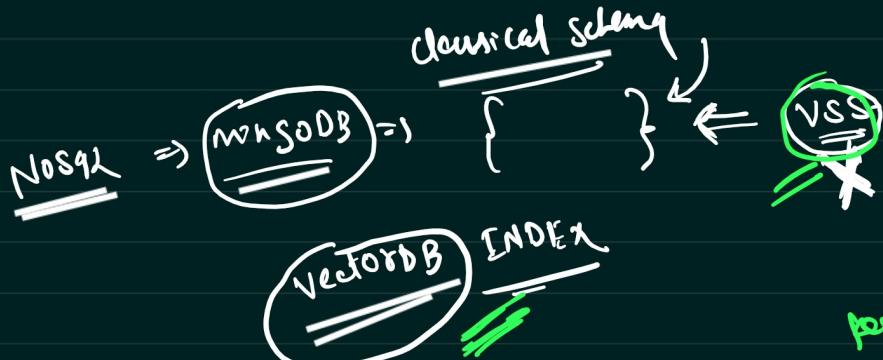
RxC

EmpId	EmpName	EmpAge	EmpDesignation



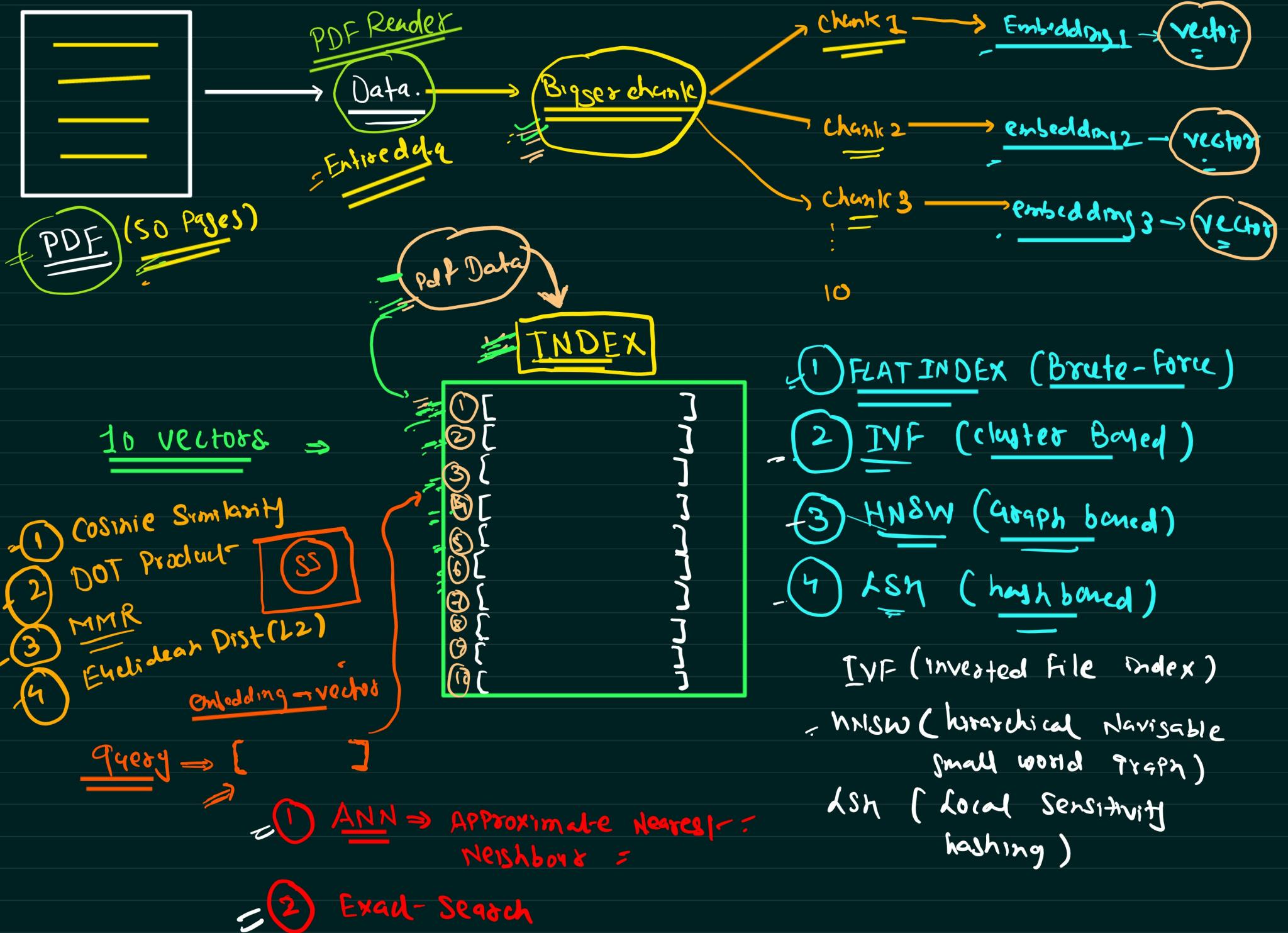
vector based operation

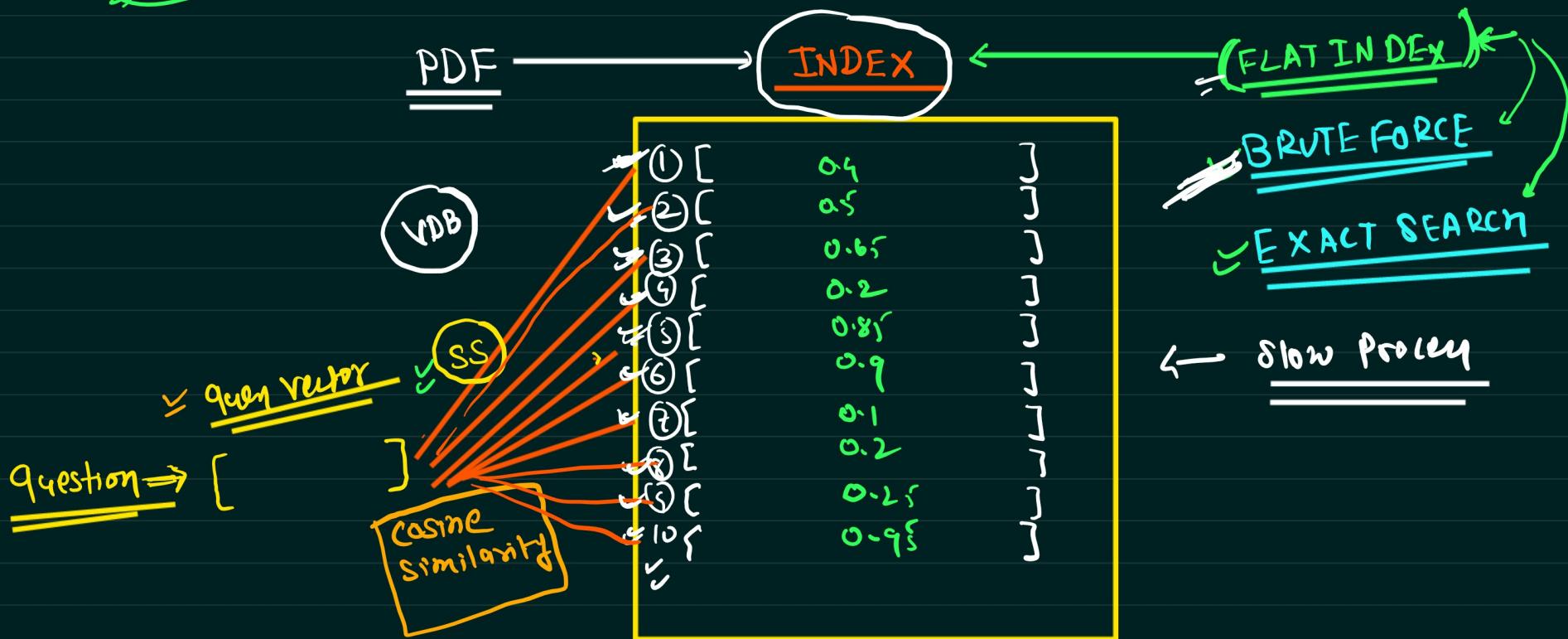
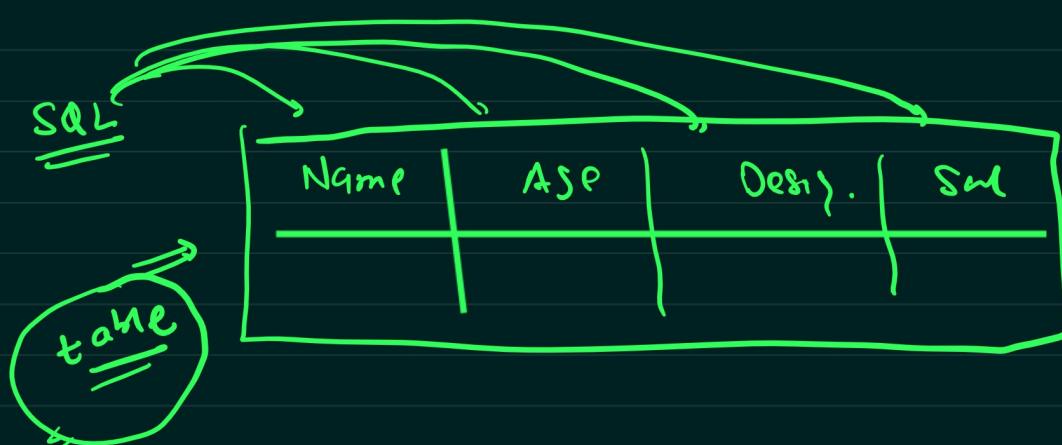
vector DB ⇒ {
 1 INDEXING ✓
 2 SIMILARITY SEARCH = }



Nosql SQL → tabular
 ↗ classical schema =
 ↗ key value, { } , graph

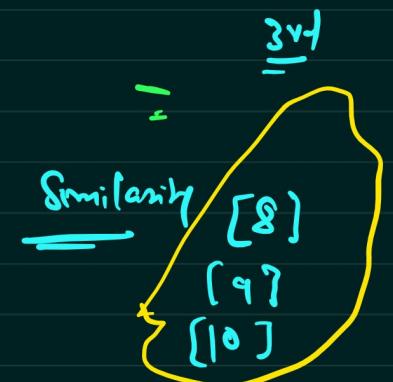
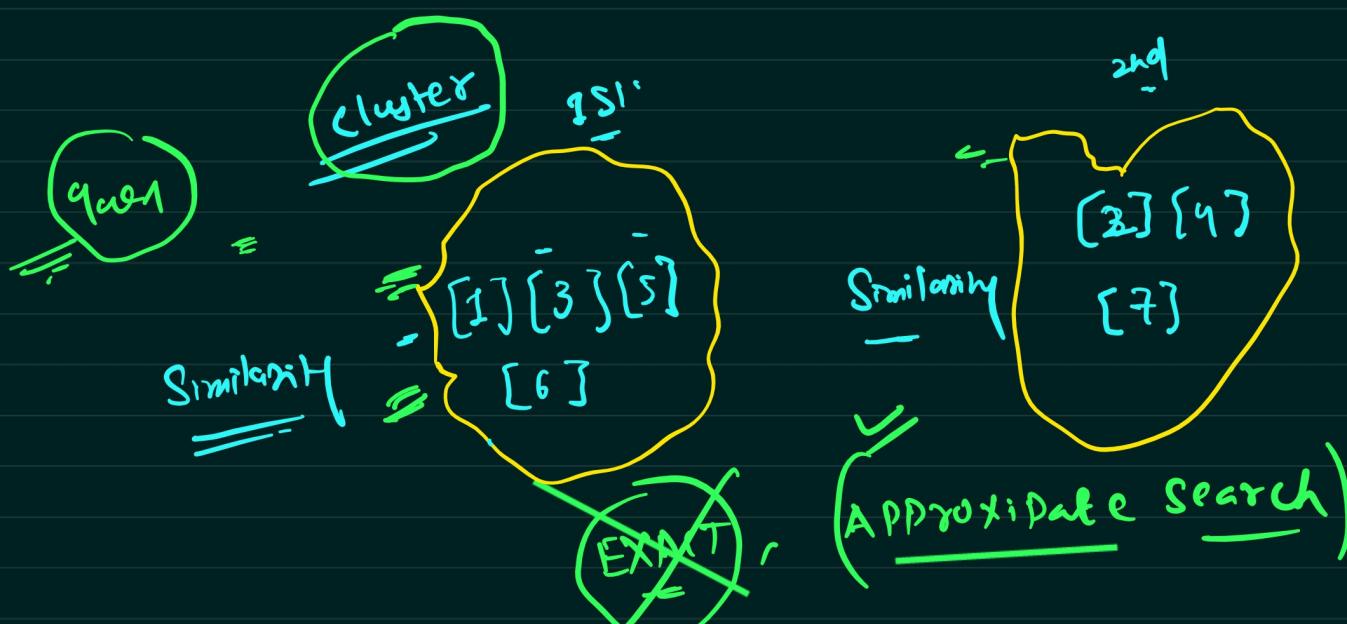
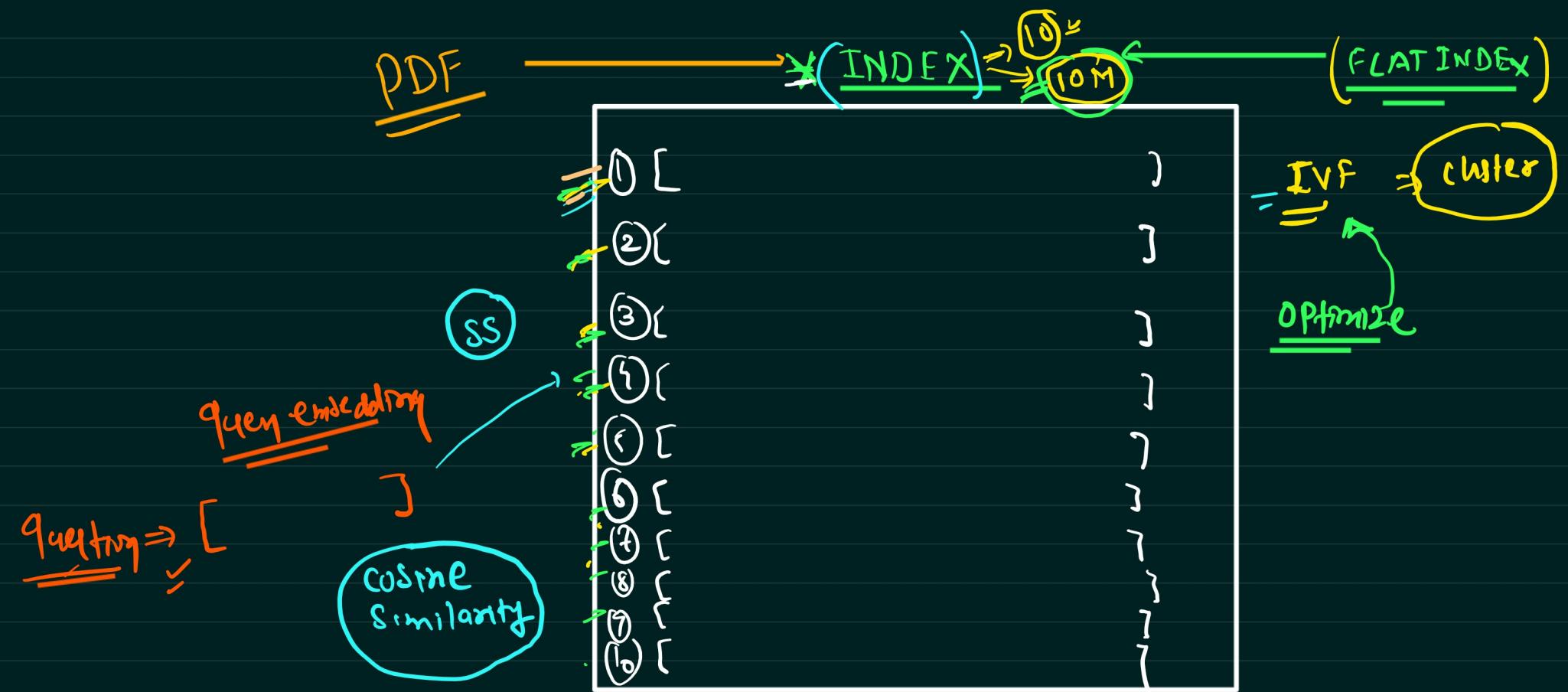
PostgreSQL
 vector index
 mongoDB
 cassandra



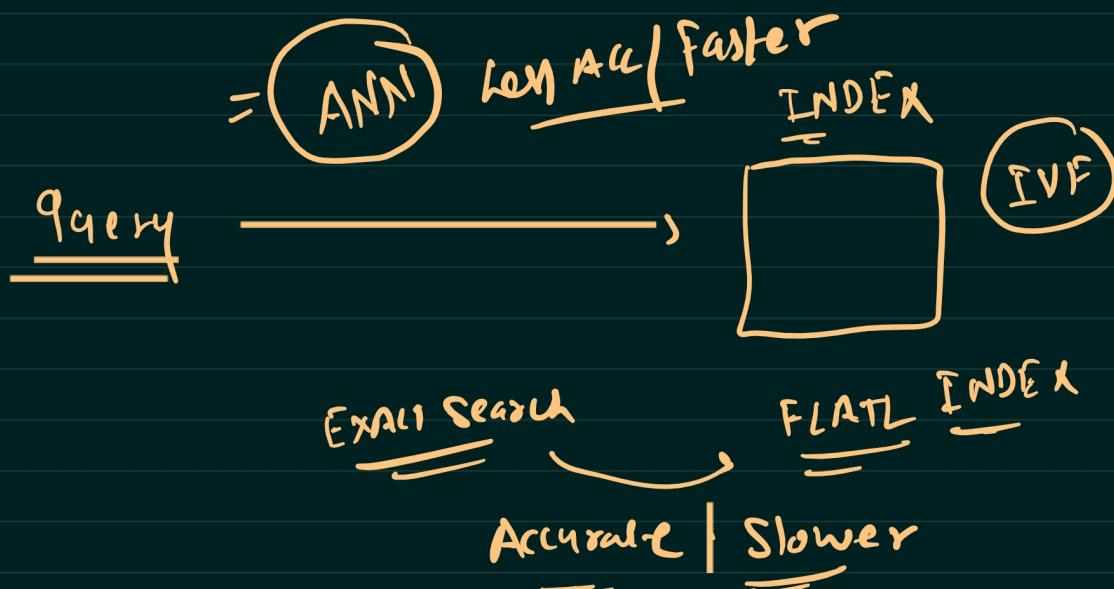
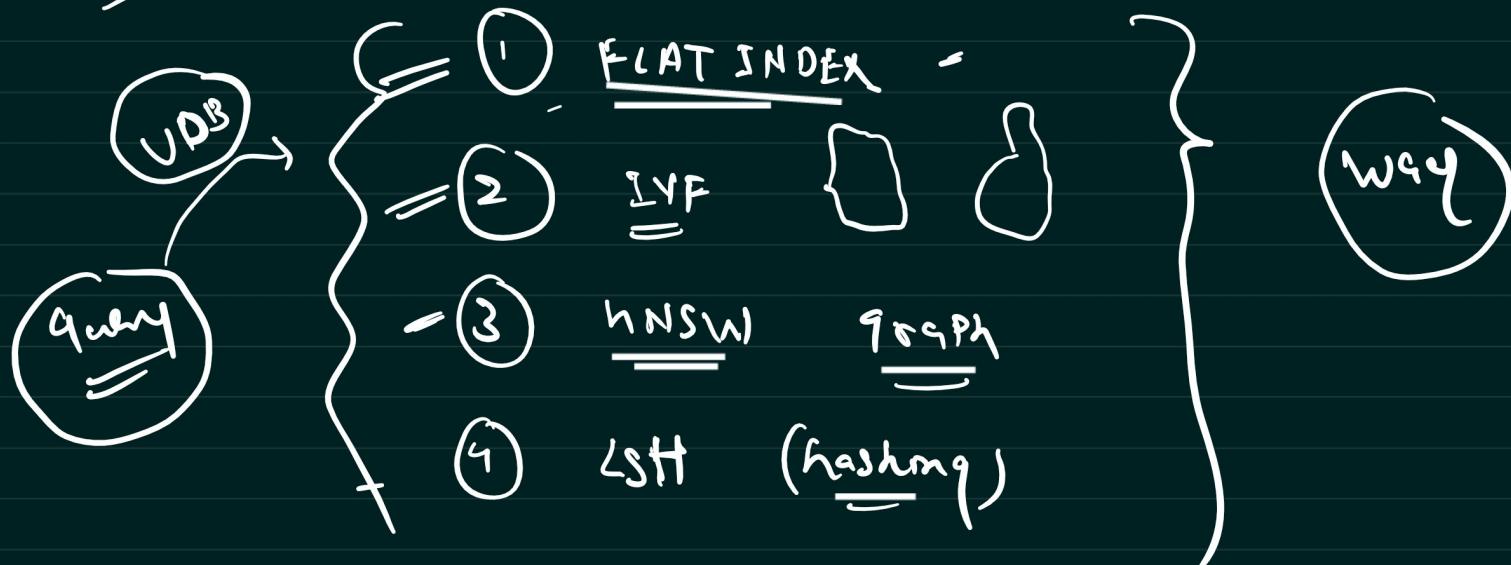


question ⇒ 10 []

most similar vector

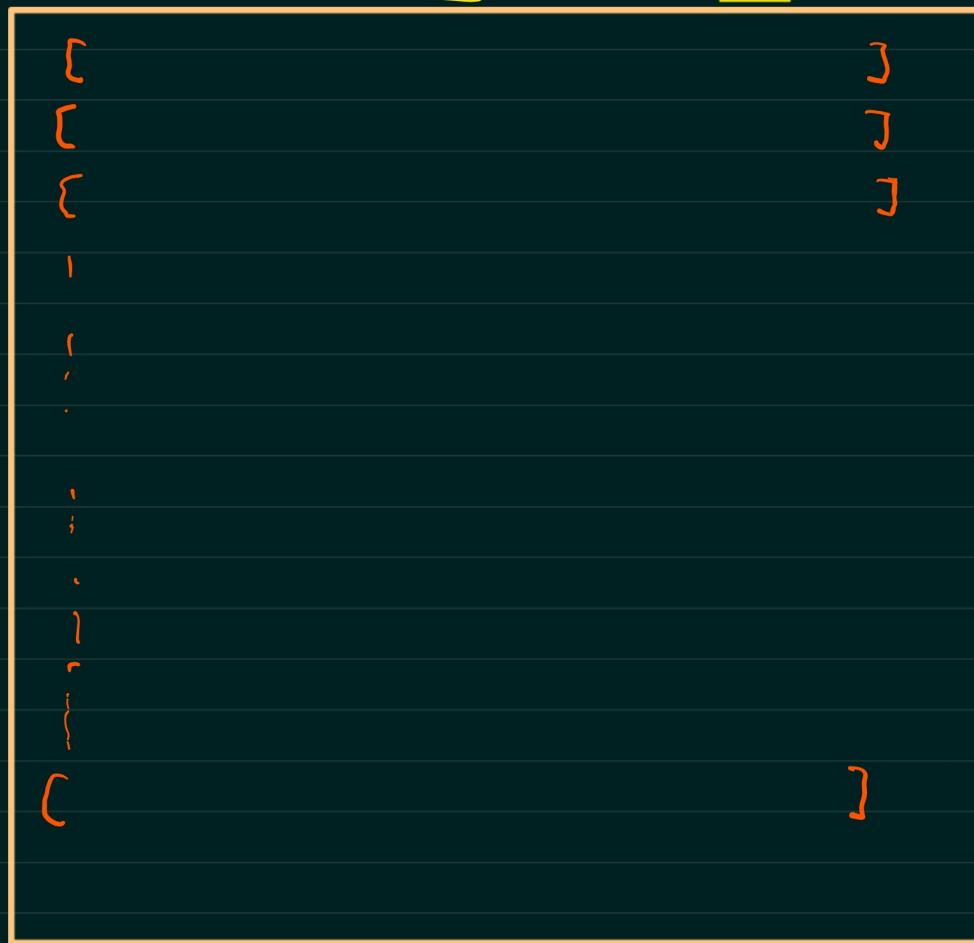


INDEXING \Rightarrow Arrangement of Data



FAISS VDB

INDEX ← FLAT INDEX



query →

chunking
→
organized

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1 page