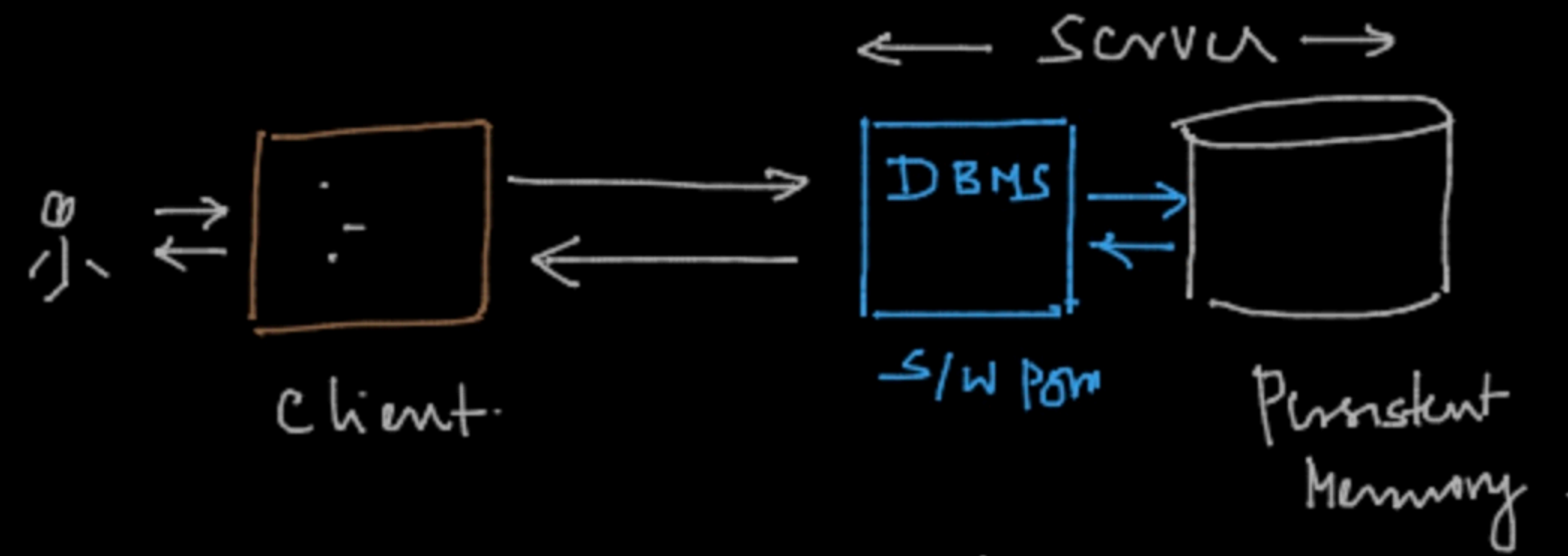
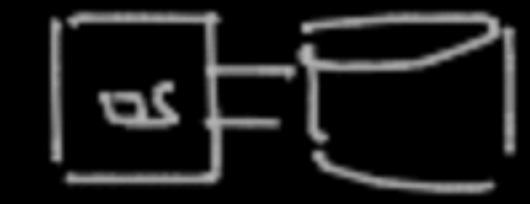
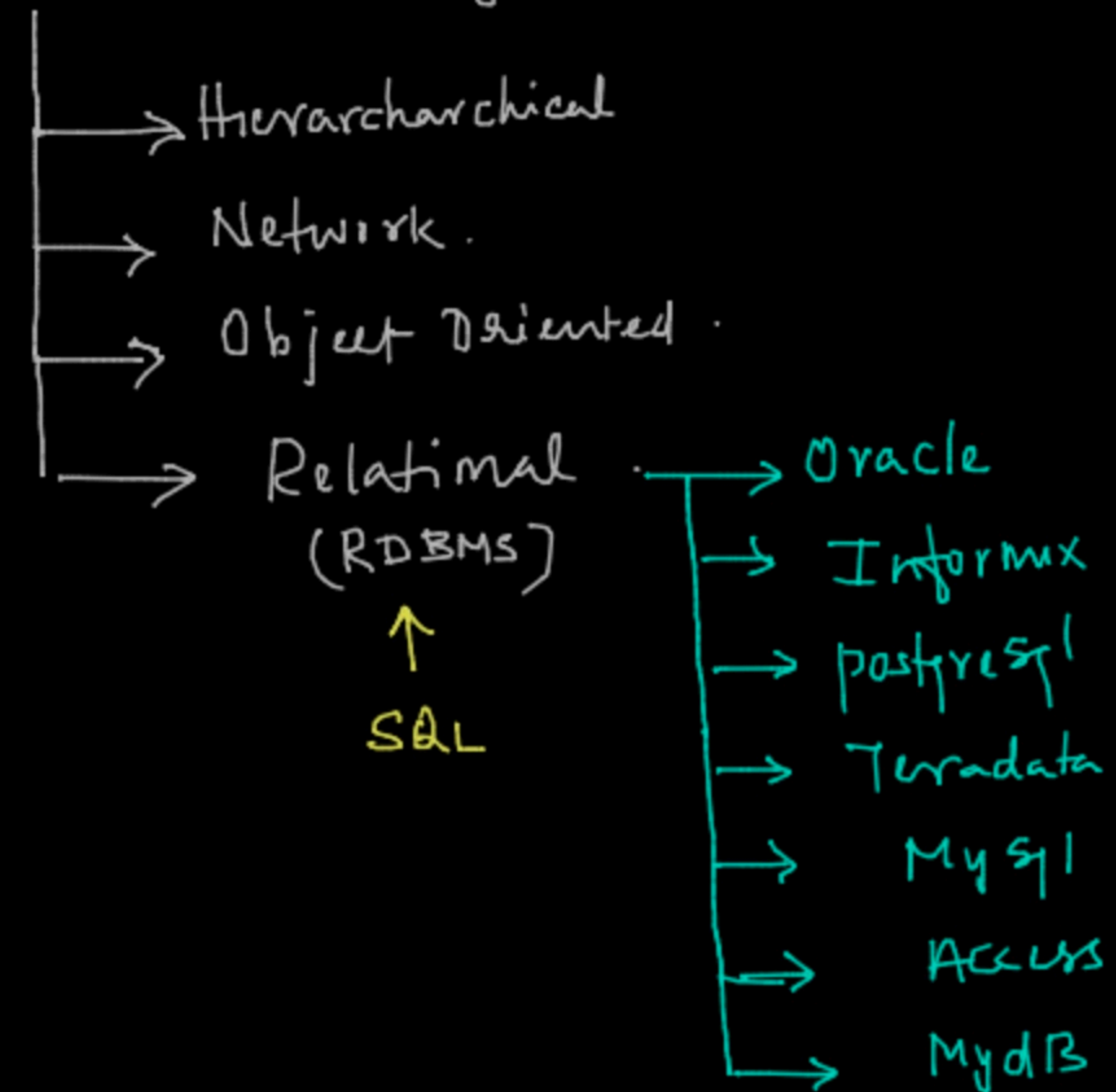
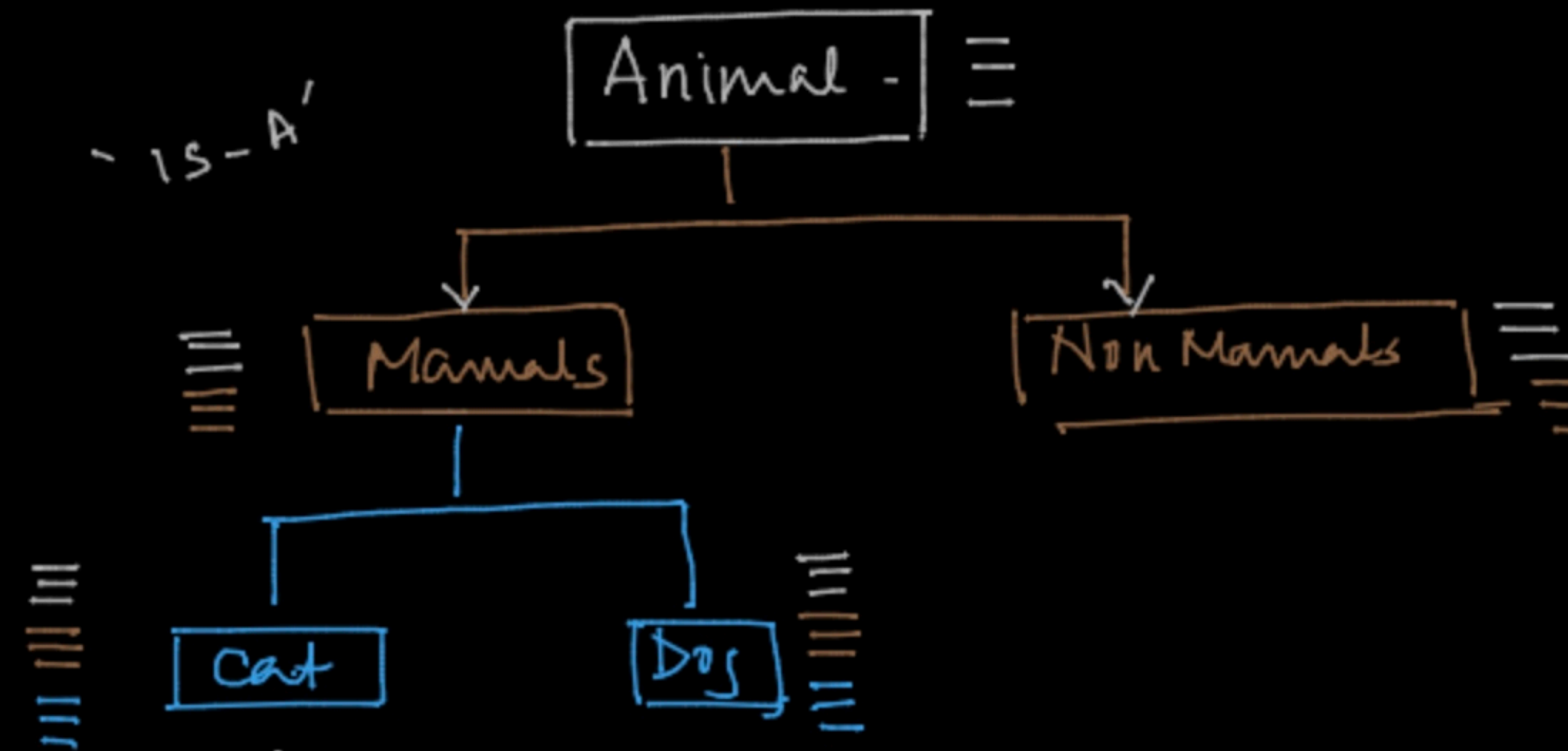


Database
— collection of related data.



Structured.





Relational DB \rightarrow Tabular

Student N-1 class Table

Sid	SName	Age	Course
1	Thomas	25	MySQL
2	Nancy	20	Analys
-	-	-	-

Columns (attribute / Fields)

\rightarrow properties

\rightarrow Rows / Records / tuple

Courses \rightarrow department \rightarrow Faculty

A diagram illustrating a nested structure. A large rectangle contains a smaller rectangle. Inside the smaller rectangle, the text "text" is written above "img.".

PostId	userId	time	content	likes	Comments1	Comment2	...
1							
2							

↳ Replies.

Dynamic storage \rightarrow NoSql Databases

S1: { Name: Thomas,
Age: 25
Course: Mysql }

S2: { Name: Mary
Age: 20
Course: DS
Marks: 55
Address: }

- Key-value — Redis
- Document — MongoDB
- Graph — Neo4j,
- Wide Column — Cassandra, HBase

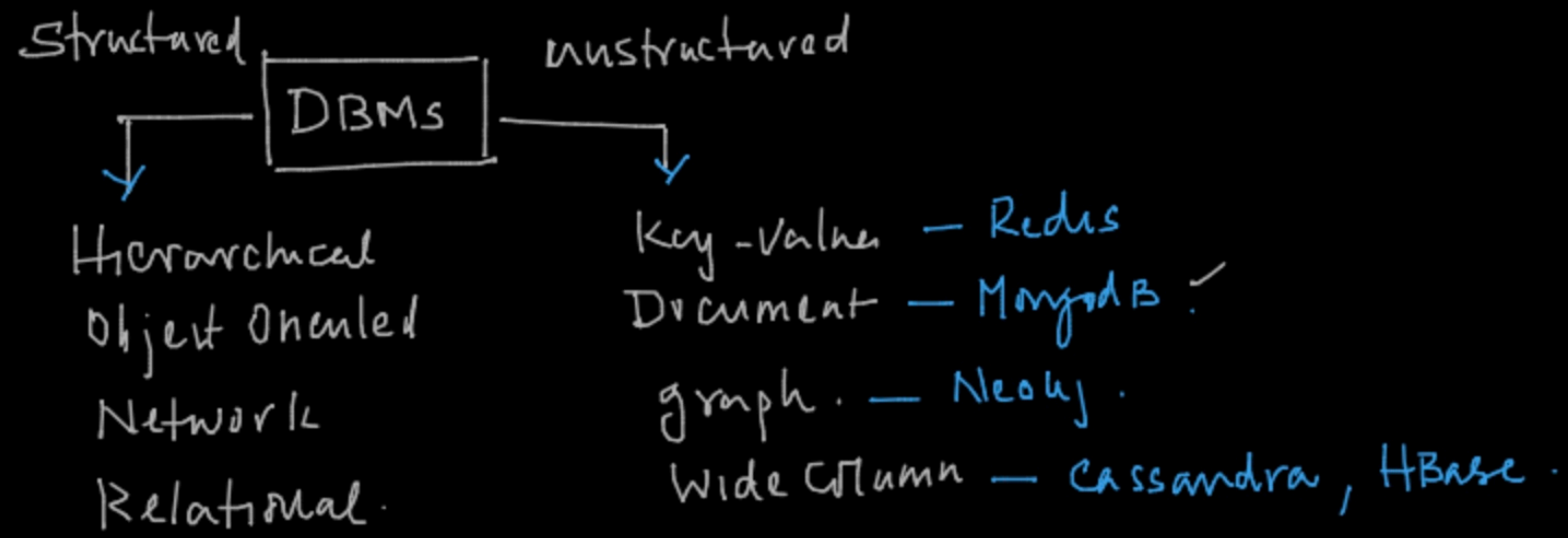
customer

```

Proid: 7
userid: xyz
content: Fl / mp3 / mp4
likes: { u1: —
        u2: —
        u3: ✓
        u4: ✓
      }

```

Comment: 3 Cini: —
 Replies: 2 Raps: —
 Map 2



- Oracle
- Informix
- PostgreSQL
- MySQL
- Teradata
- DB2
- SQL Server

SQL
Structured Query
Language

