

Types of Databases



What is **data**?

Data can be defined as a representation of facts, concepts, or instructions in a **formalized manner**

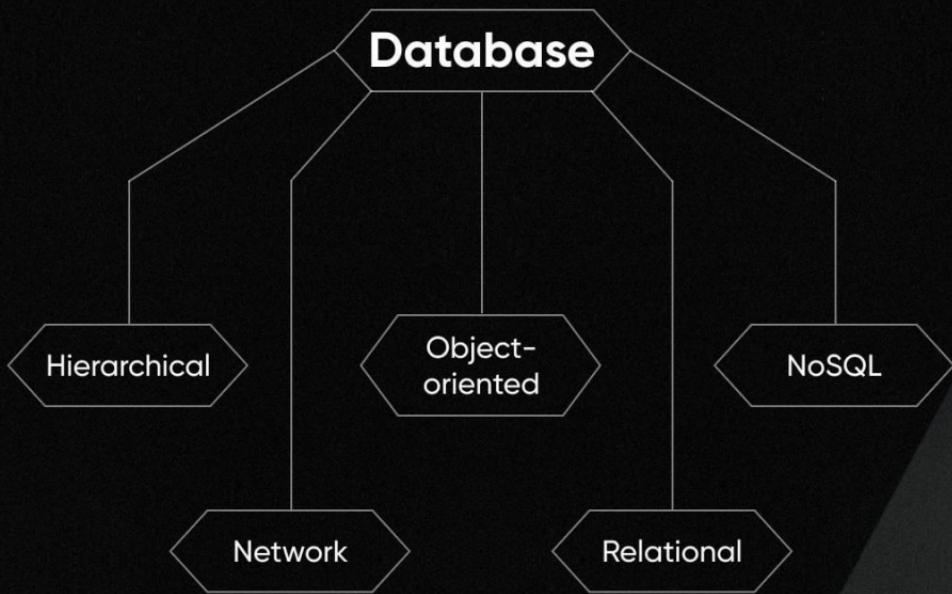
What is a **database**?

A database refers to a **collection of data** that can be easily accessible, managed, and updated



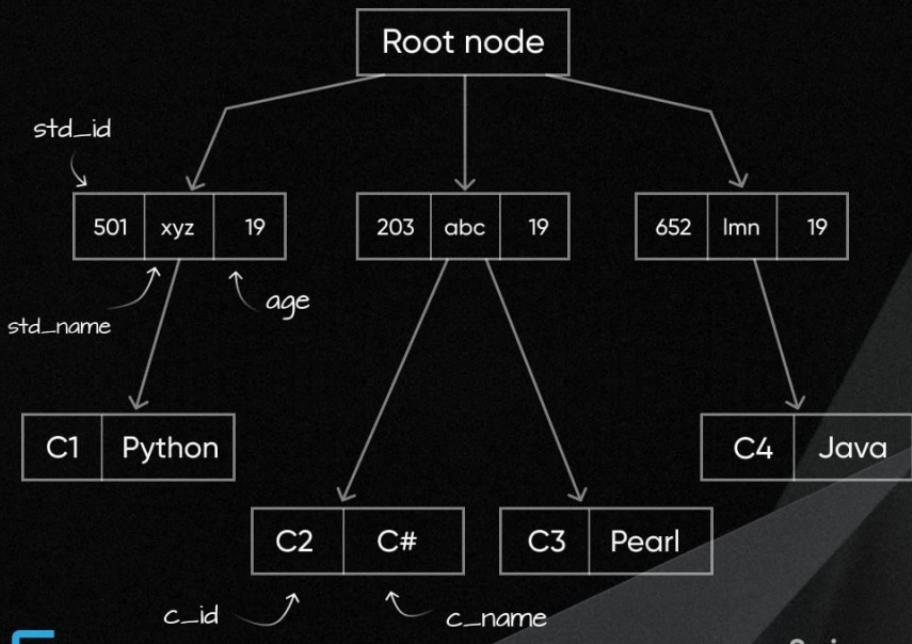
Swipe →

There are five major types of databases:



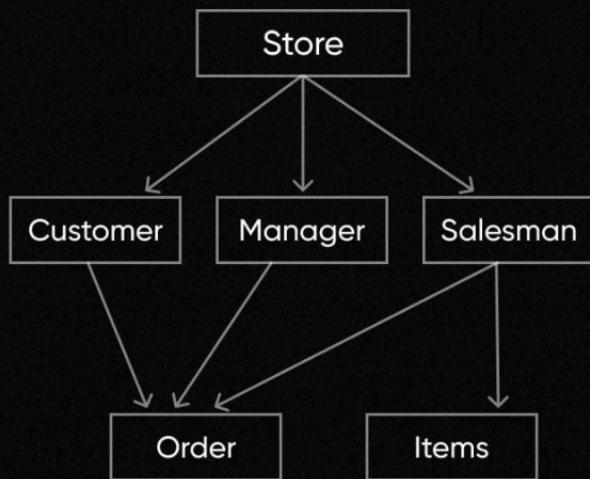
Hierarchical databases

A hierarchical database model is a database model in which the data are organized into a **tree-like structure**. The data are stored as records which are connected through **links**.



Network databases

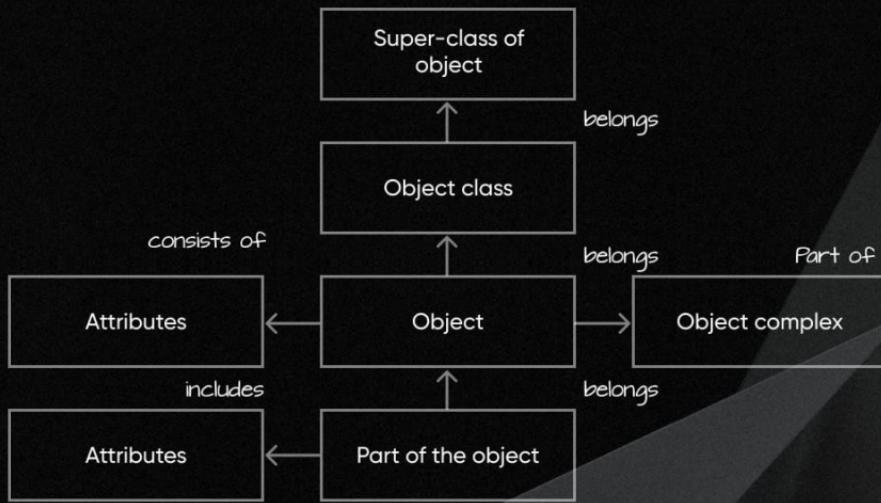
The network database model was a progression from the Hierarchical databases and was designed to **solve** some of that model's problems, specifically the **lack of flexibility**.



Instead of only allowing each child to have one parent, this model allows **each child to have multiple parents**

Object-oriented databases

An object-oriented database (OODBMS) or object database management system (ODBMS) is a database that is **based on object-oriented programming (OOP)**. The data is represented and stored in the form of **objects**. OODBMS is also called object databases or object-oriented database management systems.



Relational databases

A relational database is a type of database that stores and organises **related data points**. Data is organised into **tables** that are linked based on shared data. They are the **most common type** of database used by businesses today.



NoSQL databases

NoSQL Databases are non-relational Data Management Systems. They do not require a fixed schema. NoSQL is used for Big data and real-time web apps with humongous data storage needs.



Some popular NoSql databases are Apache Cassandra, MongoDB, Neo4j, Amazon DynamoDB.

Do you find it helpful?

let me know down in
the comments !



Slobodan Gajić

Content Creator



FOLLOW FOR MORE