

Let's Dive Into the World of Databases!

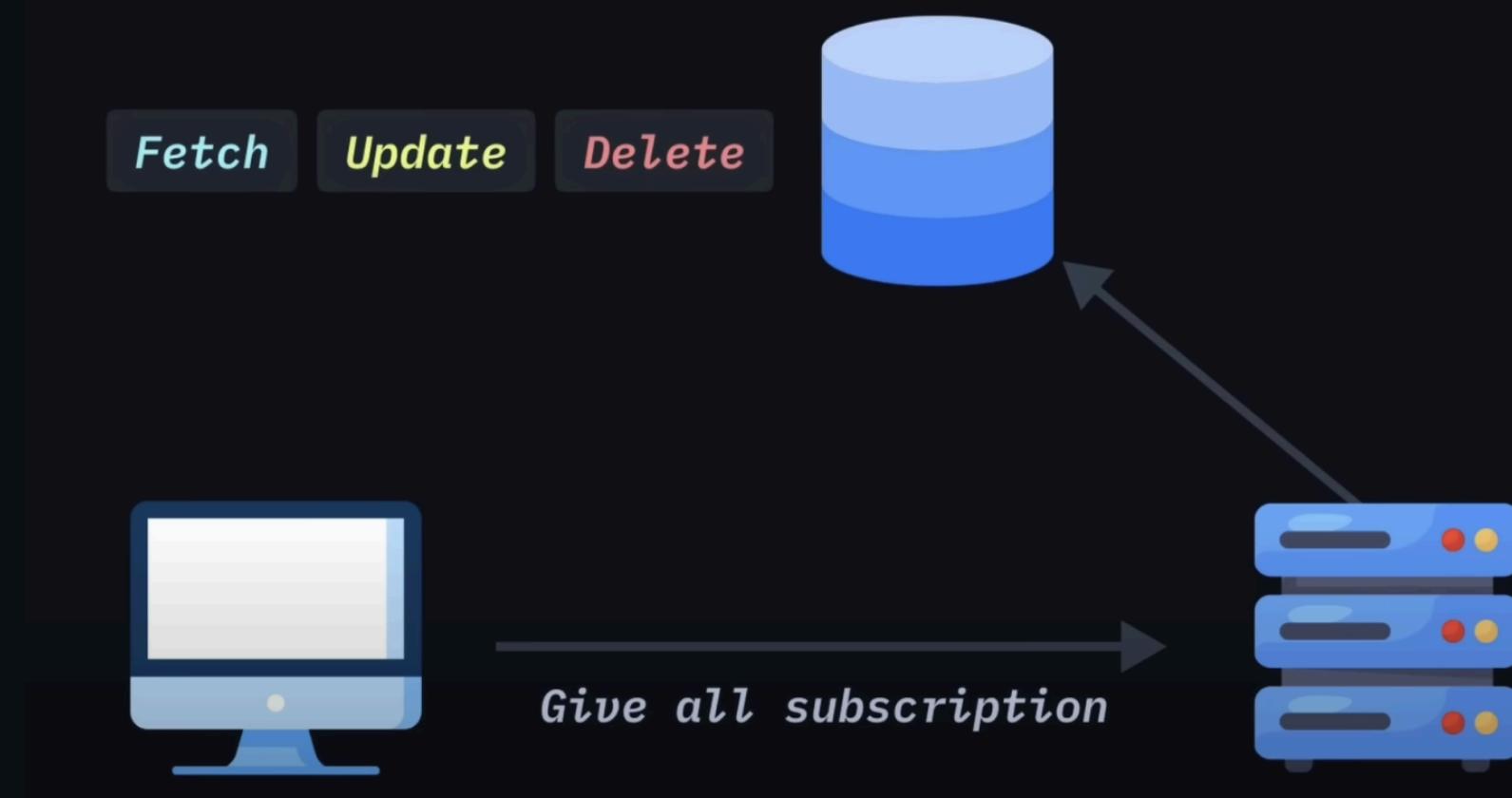


What is a Database?

A database is **specialized software** that stores, organizes, and manages data efficiently.

Whenever you log in to Instagram, check your bank balance or book a movie ticket, **a database is working behind the scenes!**

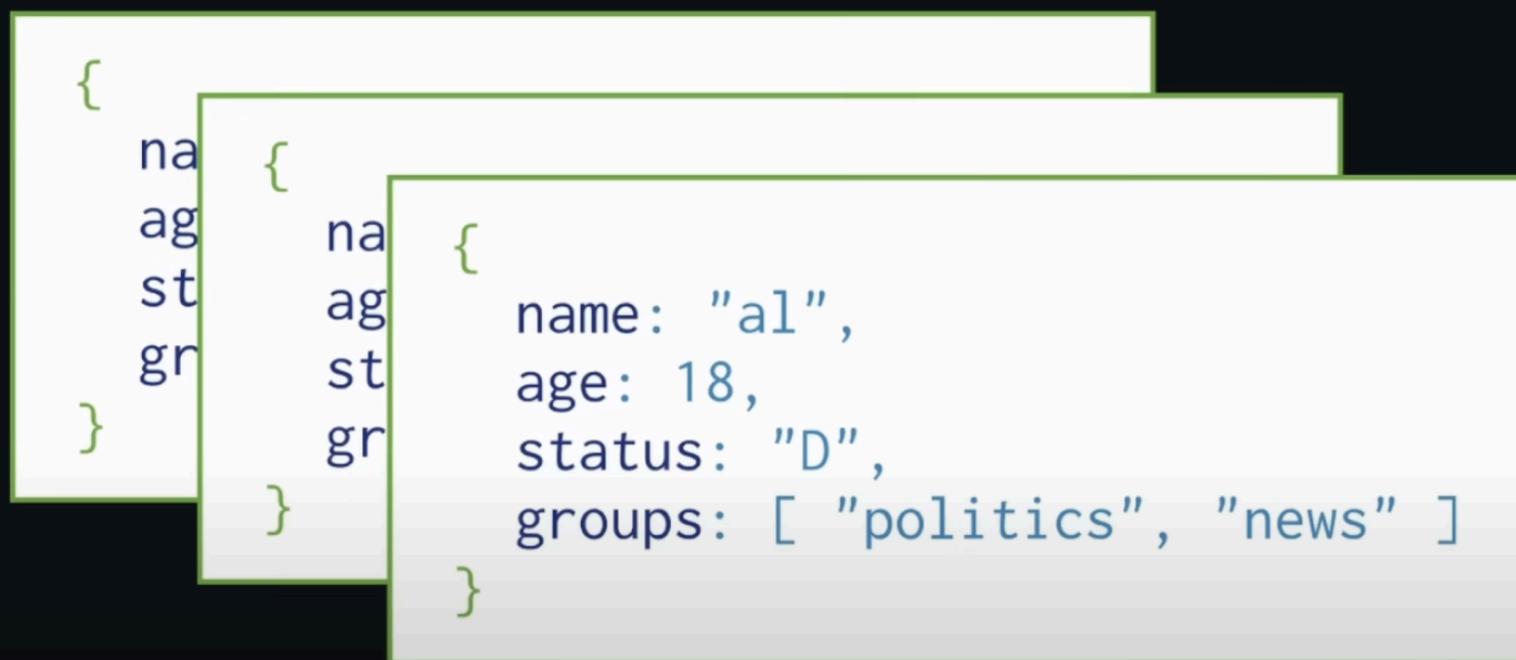
Think of it like **a digital filing system**.



Types of Databases

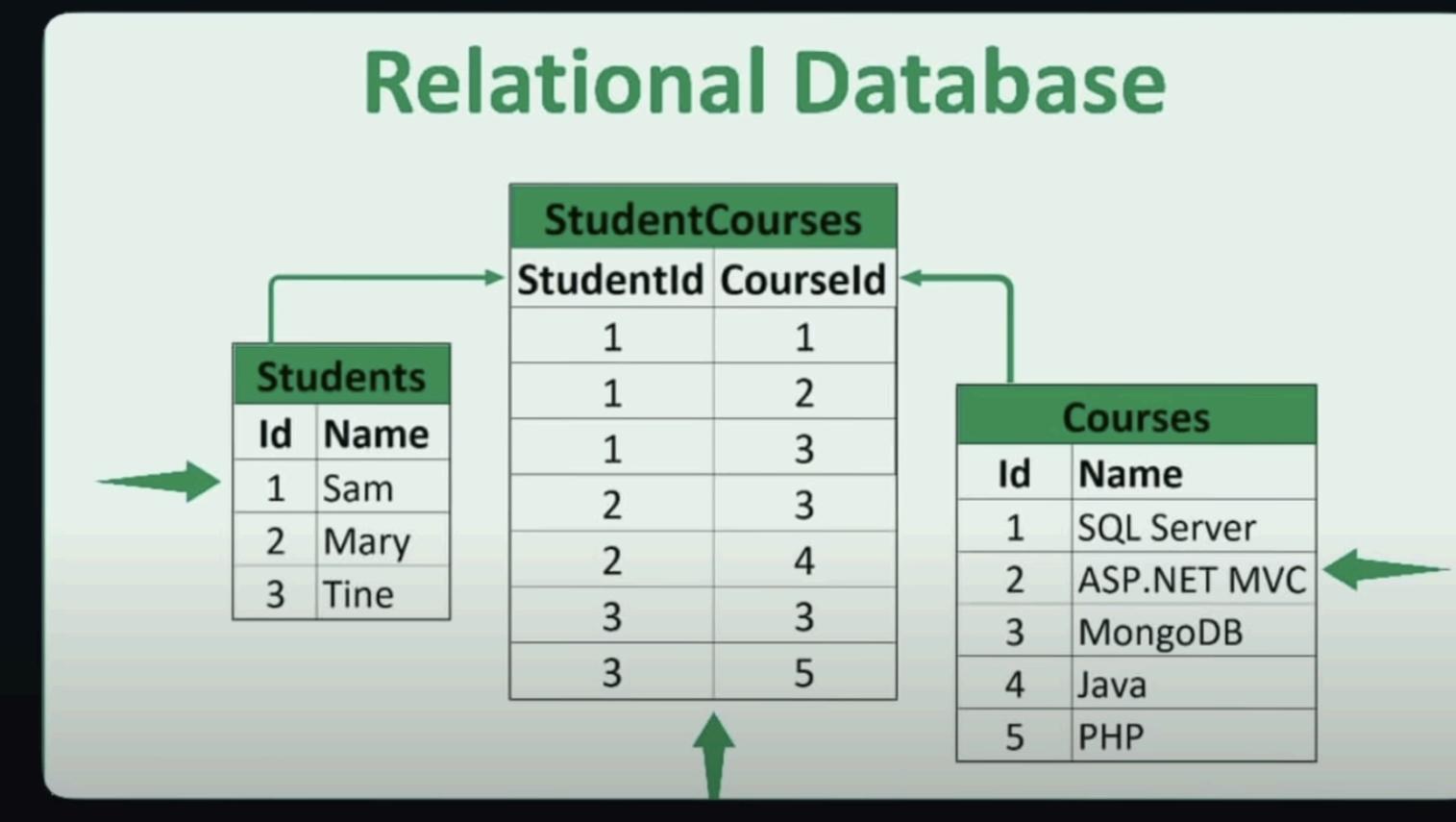
Databases come in two main types:

- ◆ **Relational** – Structured, organized in tables
 - such as **MySQL and PostgreSQL**
- ◆ **Non-Relational** – Flexible, handles unstructured data – such as **MongoDB**



Relational Databases

- ✓ Store data in **tables** with rows & columns
- ✓ Use **SQL (Structured Query Language)** to query and modify data
- ✓ Best suited for **highly structured data** where relationships between entities is important
- ✓ Great for banking systems, e-commerce, inventory management



Non-Relational Databases

- ✓ There are **various subtypes** that store data in documents, key-value pairs, or graphs
- ✓ **Offer more flexibility** and don't rely on a rigid structure of tables
- ✓ **Can handle unstructured or semi-structured data** - perfect when data relationships are less complex
- ✓ **Great when handling large volumes of data**, such as social media applications and real-time analytics



Querying Databases

You can **interact** with databases (create, update, delete data, etc) using:

- ◆ **Raw Queries** – Direct SQL or NoSQL commands
- ◆ **ORMs (Object-Relational Mappers)** – These simplify database interactions by letting you write queries in your programming language of choice (e.g. Prisma).



Prisma

📌 **Need structured, relational data?** → Use relational databases, such as MySQL

📌 **Handling large, flexible data?** → Use non-relational databases, such as MongoDB

📌 **Want an easier way to interact with databases?** → Use an ORM





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