Course URL: <https://www.youtube.com/watch?v=HXV3zeQKqGY&t=1802s>

Queries used in the course: <https://www.mikedane.com/databases/sql/>

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CRUD: Create, Read, Update ,Delete.

Types:

# Relational: Organizes data into 1 or more tables.

Columns & Rows, Unique key identifiers.

# Non-Relational: Organize any data.

Key-value stores.

Documents (JSON, XML)

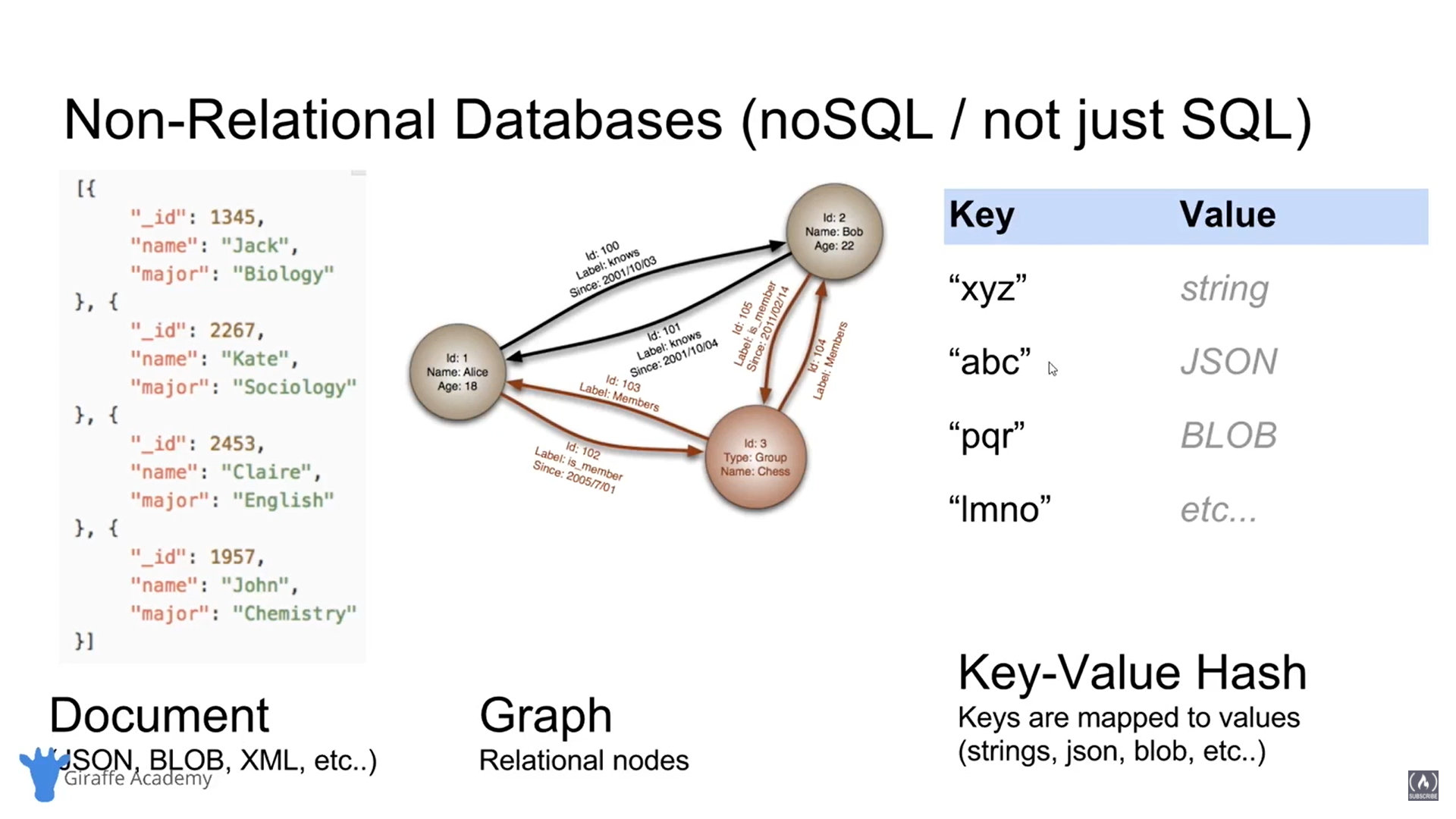
Graphs

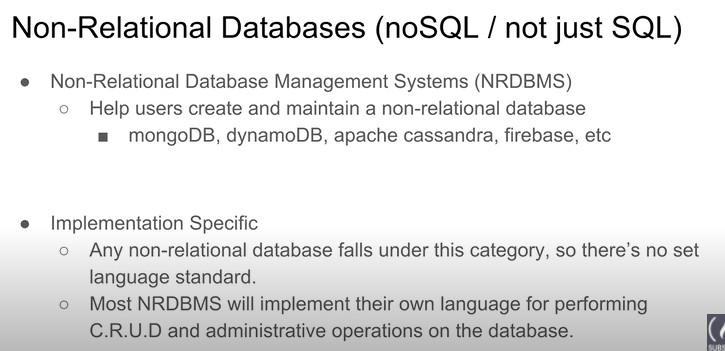
Flexible tables

# Relations DBs:

SQL: Standardized, performs CRUD,

# Non-Relational:





# Tables and Keys:

Surrogate keys – Primary, No mapping for the key .

Natural keys – Primary, using a mapped key.

Foreign key:

Define relationships between 2 tables.

The key is the Primary key of the linked table.

Primary key: Composite key (Combination of multiple Primary keys of diff. tables)

Combination of multiple Foreign keys make a Composite key.

# SQL:

Interacting with RDBMS.

Implementations vary between systems. -> Implementation may vary.

**Types:**

DQL (Data Query language) : Query for info, Get info that is stored.

DDL (Data Definition “): define schemas

DCL (Data Control “): Control access, User Permission mgmt

DML (Data Manipulation “): CRUD.



JOIN:

General

LEFT

