INTRODUCTION TO MONGODB

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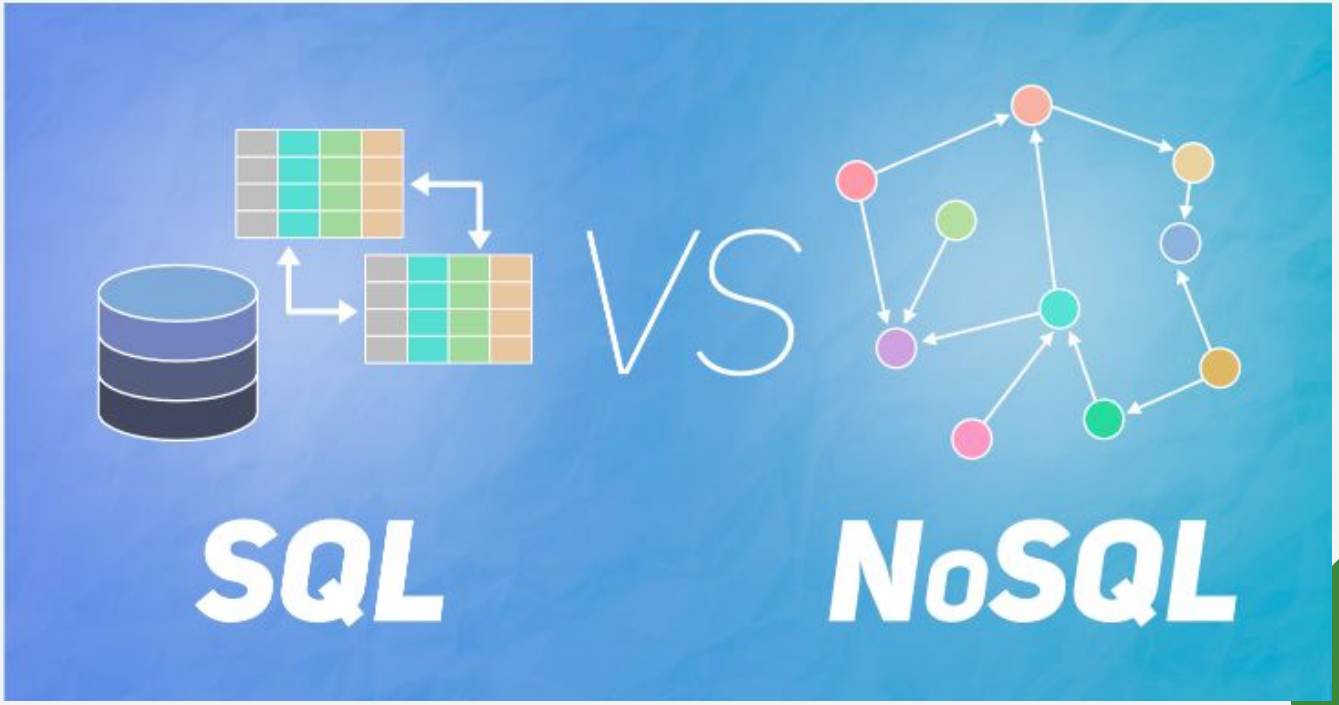
WHAT IS MONGODB ?

MongoDB is an **open source noSQL** database which allows to store data in **JSON-like documents**, meaning fields can vary from document to document and data structure can be changed over time .

WHY MONGODB ?

- **Fast, Fast and Fast** development.
- **horizontal** scale-out architecture.
- complex data objects storage.

MongoDB vs SQL



MongoDB vs SQL

#	title	stuff	moar
1	Bla bla	Mdr	xD
3	TEST	Lmfao	XML
4	Azerty	GUI	Lol

```
{ title: "Bla bla", stuff: "Mdr", moar: "xD" }
{ title: "TEST", stuff: "Lmfao", moar: "XML" }
{ title: "Azerty", stuff: "GUI", moar: "Lol" }
```

WHEN SHOULD YOU USE NOSQL ?

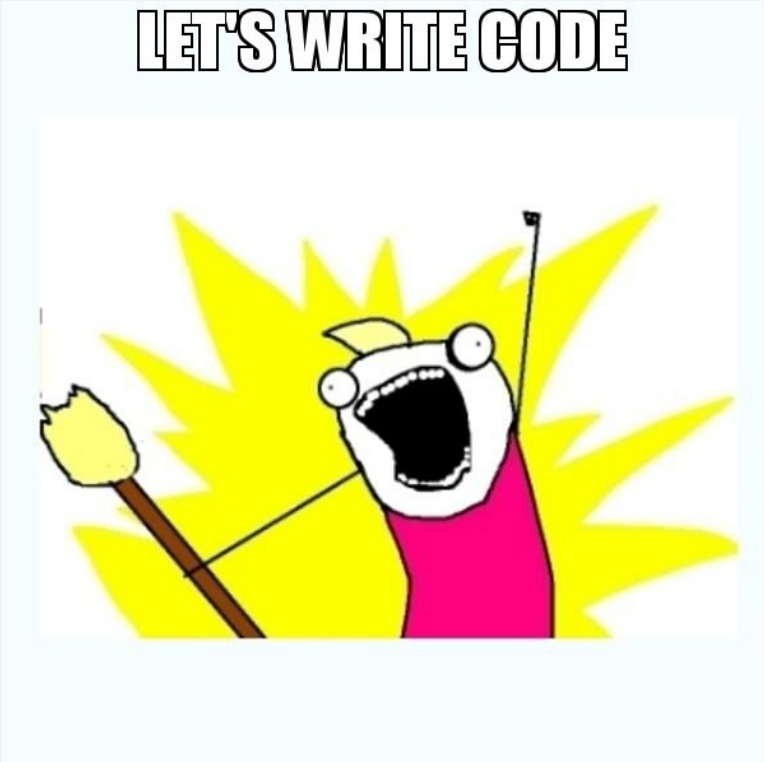
A NoSQL database is a much better fit to store data like **article content**, **social media**, **sensor data**, and other types of unstructured data that won't fit neatly into a table.

A SQL database is a great fit for **transaction-oriented systems** such as customer **relationship management tools**, **accounting software**, and **e-commerce platforms**. Each row in a SQL database is a distinct entity and each column is an attribute that describes that entity.

HOW TO INTERACT WITH DATABASES ?

- Using the databases' native query language (e.g. SQL)
- Using an **Object Data Model ("ODM")** or an **Object Relational Model ("ORM")**. An ODM/ORM represents the website's data as **JavaScript objects**, which are then mapped to the underlying database.

  Some ORMs are tied to a specific database, while others provide a database-agnostic backend.


LET'S WRITE CODE