

Intro to MongoDB

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What is NoSQL?

- ▶ Not Only SQL
- ▶ Types of NoSQL
 - ▶ Key-Value
 - ▶ Document
 - ▶ Column
 - ▶ Graph
- ▶ Why?: Flexibility, Scalability, Performance

SQL vs NoSQL

▶ SQL Databases

- ▶ Rigid Schema
- ▶ Support ACID transactions
- ▶ Relational model with Joins

▶ NoSQL Databases

- ▶ Schema-less
- ▶ Often scales horizontally
- ▶ Optimised for unstructured data

- ▶ What is mongoDB?
 - ▶ Document Oriented Database
 - ▶ Open-source
 - ▶ Flexible Schema
- ▶ Key Features
 - ▶ Schema-less
 - ▶ Horizontal Scaling
 - ▶ High availability

Use Cases

- ▶ Content Management Systems(CMS)
- ▶ Real-time analytics
- ▶ E-commerce platforms

Basic Operations

- ▶ CRUD
- ▶ Documents and Collections
- ▶ Basic Commands
 - ▶ `db.collection.insertOne()`
 - ▶ `db.collection.find()`
 - ▶ `db.collection.updateOne()`
 - ▶ `db.collection.deleteOne()`

Thank You

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