

## Slide 1: Introduction



Introduce MongoDB and SQL as two popular database types  
Mention that MongoDB is a NoSQL database, while SQL is a relational database

## Slide 2: MongoDB

Explain that MongoDB is a document-oriented NoSQL database

Highlight key features: flexible schema,  
horizontal scalability, and support for rich data structures

Mention that MongoDB uses BSON (Binary JSON) format for storing data

## Slide 3: SQL

Describe SQL as a relational database management system (RDBMS)

Highlight key features: structured data with tables, defined schemas,  
and support for complex queries

Mention that SQL databases use a tabular format for storing data

## Slide 4: Comparison

Compare data models:

- MongoDB: Hierarchical structure with collections of documents

SQL: Tabular structure with tables composed of rows and columns

Compare schema flexibility:

- MongoDB: Dynamic schema allows for easy modification of data structure

SQL: Static schema enforces data integrity and predefined structure

## Slide 5: Comparison (contd.)

Compare scalability:

MongoDB: Horizontal scalability allows for distributed data storage across multiple servers

SQL: Vertical scalability focuses on adding resources to a single ser

