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MongoDB Introduction



What is MongoDB?



mongoDB

MongoDB is an open-source NoSQL document database that provides high performance, high availability and automatic scaling.

Why use MongoDB ?

Flexibility

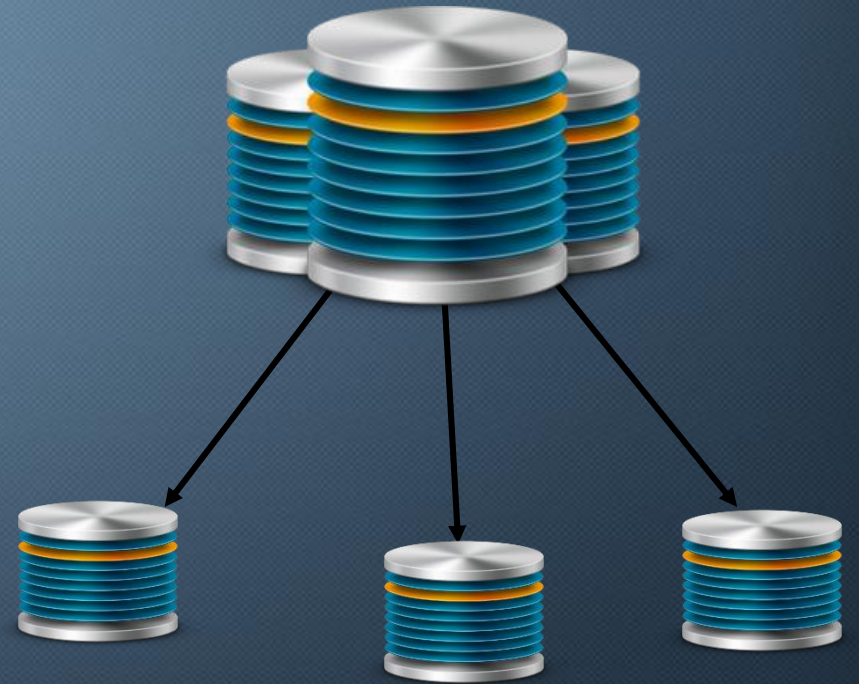
- ❑ Data in MongoDB has a flexible schema. Collections do not enforce document structure. This flexibility gives you data modeling choices to match your application and its performance requirements.



Why use MongoDB ?

Scalability

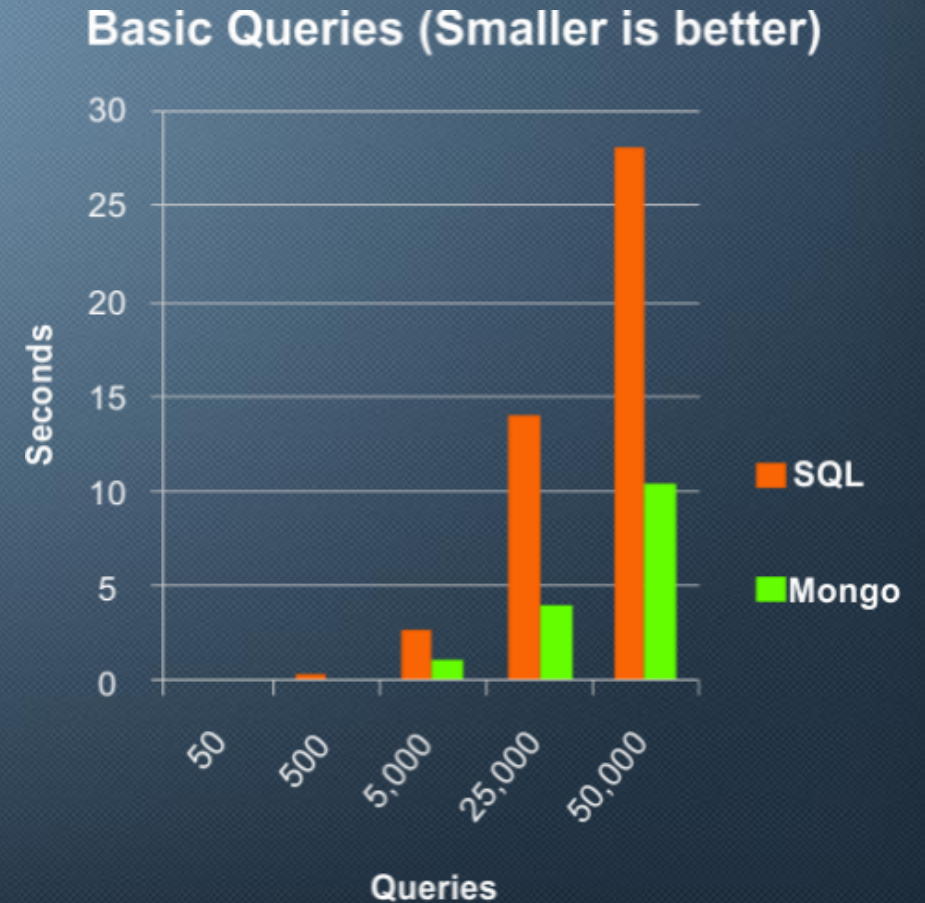
- ❑ As the size of the data increases, a single machine may not be sufficient to store the data nor provide an acceptable read and write throughput. Sharding solves the problem with horizontal scaling.



Why use MongoDB ?

Performance

- ❑ MongoDB is 2 to 10 times faster than MySQL and 50 times faster than CouchDB.



"MongoDB" a NoSQL Database

- ❑ MongoDB is an open-source document database and the leading NoSQL database.
- ❑ MongoDB avoids the traditional table based relational database structure in favor of JSON-like documents with dynamic schemas, making the integration of data in certain types of applications easier and faster.

Reasons to use NoSQL

- ☐ Simpler data model (no joins)
- ☐ If scalability is a concern.
- ☐ Distributed storage
- ☐ Real time analysis
- ☐ Needs to be implemented on a very low budget and “scaled out”
- ☐ Rapid development
- ☐ Provides flexibility
- ☐ Streaming/ Volume
- ☐ Redundancy/ Reliability