

MongoDB Basic

/thoughtworks

MongoDB

MongoDB Community Edition

MongoDB Enterprise Edition

Atlas: cloud database service <https://www.mongodb.com/cloud/atlas/register>

MongoDB

MongoDB is a document database.

Classified as a **NoSQL** (originally referring to "non-**SQL**" or “non-relational”) database program,
MongoDB uses **JSON**-like documents.

Relation database

using SQL (Structured Query Language).

MySQL

Oracle

PostgreSQL

SQL Server

...

Non-relational database

MongoDB

Redis

Cassandra

Neo4j

...

MongoDB

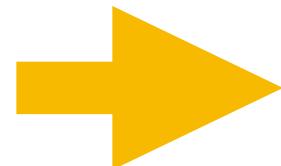
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Relational Database

Student_Id	Student_Name	Age	College
1001	Lucy	30	book
1002	Lily	29	book
1003	Louis	28	book

Table,
Row,
Column



MongoDB

```
Students:  
{  
  "_id": ObjectId("....."),  
  "Student_Id": 1001,  
  "Student_Name": "Lucy",  
  "Age": 27,  
  "College": "book"  
}  
{  
  "_id": ObjectId("....."),  
  "Student_Id": 1002,  
  "Student_Name": "Lily",  
  "Age": 25,  
  "College": "book"  
}  
{  
  "_id": ObjectId("....."),  
  "Student_Id": 1003,  
  "Student_Name": "Louis",  
  "Age": 27,  
  "College": "book"  
}
```

Collection,
Document,
Field

MongoDB



Can contain one or more collections

Collections

Can contain different types of document(objects)

Document

Key value pair list or array or
nested document

MongoDB Shell

The MongoDB Shell, mongosh, is a fully functional JavaScript and Node.js 16.x REPL environment for interacting with MongoDB deployments. You can use the MongoDB Shell to test queries and operations directly with your database.

```
use dbname
db.createCollection("companies")
db.companies.insertOne({
  name: "Google",
  website: "https://www.google.com/",
  category: "technique"
})
```

```
db.companies.insertMany([
  {
    name: "Google",
    website: "https://www.google.com/",
    category: "technique"
  }
])
db.companies.find()
db.companies.find( {category: "technique"} )
db.companies.updateOne( { name: "Google" }, { $set: { category: "Technique" } } )
db.companies.deleteOne({ name: "Google" })
```

MongoDB Compass

MongoDB Compass is a powerful GUI for querying, aggregating, and analyzing your MongoDB data in a visual environment.



AFS

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Thank You !

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