

mongoDB

NoSQL → A NoSQL Database is a key value database which does not have a relational data that mean it does not contain any table or relational mapping.

* ~~MongoDB is used~~

* Various NoSQL are available in market - MongoDB, Amazon DocumentDB, Google DataStore, Amazon DynamoDB etc.

* MongoDB or NoSQL is extremely useful, powerful, high performance DB.

* What is MongoDB

* MongoDB is a Open Source Cross Platform

* It is Document-Oriented Database.

* MongoDB ~~is~~ uses JSON-like schemas.

* document-oriented Database.

{

field 1: Value1,

field 2: Value2,

field 3: Value3,

}

MongoDB

- * MongoDB is Not a RDBMS system it is a NoSQL.
- * MongoDB does not have any concepts of join.
- * MongoDB is easy and not complicated.

* Database

- Database is a collection of data.
- In MongoDB database can also be described as physical ~~collections~~ ^{containers} for ~~containers~~ ^{collection}.
- MongoDB server host multiple databases.

Collections

- ① Collection is a group of MongoDB Documents.
- ② Collection is like tables.
- ③ Collection does not have any schema definition.
- ④ Collections Do Not have any concept of JOINS. we can achieve joins functionality using Aggregations in MongoDB.

Documents

- Documents in MongoDB is the set of "key value" Pairs
- Every document has a unique value with key "id"
- Document have flexible schema.
- Users can store any data using MongoDB.

Example

Documents

- is a simple key-value pair data.
- MongoDB valid document example

```
{
  "Firstname": "Ayush",
  "Lastname": "Singh",
  "Email": "Ayush@gmail.com"
}
```

like JSON File

}

- User defined schema in MongoDB and they are NOT Static.
- Schema can be different for different documents.

{

```
"Firstname": "Ayush",
"Lastname": "Singh",
"Email": "Ayush@gmail.com",
"Address": "Bareilly"
```

}

Collections → Set of documents

- It can have any no. of documents.
- Documents can have any dynamic
- They can be same or different.