

# { 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 Gross 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 for containers. containers for 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 vid key "-id"
- \* Document have flexible schema.
- \* User 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.