

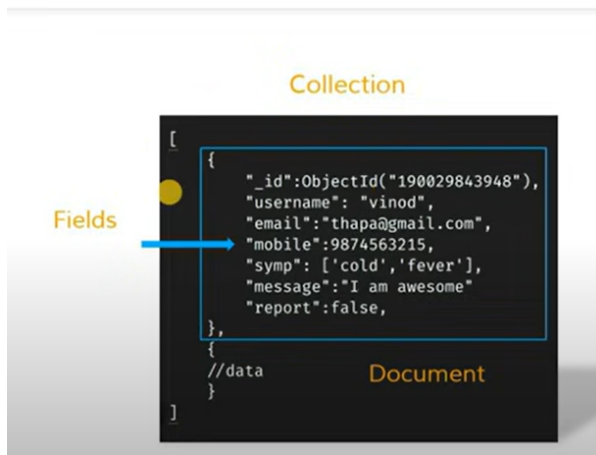
# MongoDB

- It is a Non -relational database management system works on document-based Database

- It stores data as collections in the BSON format

(JSON like structure/format) - [JSON vs BSON | Find Out The 10 Useful Differences](#)

- BSON is a binary representation to store data in JSON format



- Provides flexibility of Number of fields irrespective of document
- Installation : [#2: Complete Installation of MongoDB | Setting Environment ...](#)
- GUI Installation : [#8: Install MongoDB GUI Compass in Hindi in 2020](#)
- Default Port Number
  - Mongo : **27017**
  - SQL : **3306**

- Version
  - Mongo shell : `mongo --version`
  - MongoDB : `mongod --version`

## *Commands In Mongo Shell*

- **mongo** : used to start mongo shell
- **cls** : used to clean the screen
- **show dbs** : used to list dbs that has at least one collection
- **Use db\_name** : used to create a database(**USE EVERY TIME**)
- **db** : used to list the current active database.
- **show collections** : used to list collections that has at least one document (Enter “**use db\_name**” before using this command)
- **db.collection\_name.insertOne({ name : “NANI” , id : “1” })**
  - used to create one document of specified db and collection
  - Id gets Created by default if not declared
- **db.collection\_name.Many([ {}, {}, {} ] )**
  - used to create documents of specified db and collection
- **db.collection\_name.find()**
  - used to list all documents of specified db and collection

- **db.collection\_name.find().pretty()**
  - **.pretty()** is used lists in a pretty manner
- **db.collection\_name.find(query,projection)**
  - Ex: db.collection.find({"name": "NANI"})
    - displays all fields of that particular document
  - Ex: db.collection.find({"name": "NANI"},{name : 0})
    - displays only id, name of that particular document
  - Ex: db.collection.find({"name": "NANI"},{name : 1})
    - displays all fields of that particular document
  - Ex: db.collection.find({"name": "NANI"},{ \_id:0,name : 1})
    - displays only name of that particular document
- **db.collection\_name.find(query,projection).limit(n)**
  - displays only n number of fields satisfying the query
  - If n == 1
    - **db\_name.collection\_name.findOne(query,projection)**
- **db.collection\_name.find(query,projection).limit(n).skip(m)**
  - displays only n number of fields satisfying the query skipping m fields
- **db.collection\_name.updateMany(<filter>,<update>)**
  - If n == 1
    - **db\_name.collection\_name.updateOne(<filter>,<update>)**
  - Ex: db.collection.updateOne({"name": "NANI"}, {\$set: {"Gender": "MALE"}})
    - displays all fields of that particular document
  - The **\$set** Operator replaces the value of a field with specified value

- **db.collection\_name.deleteMany(DELETION\_CRITERIA)**
  - Ex: db.collection.deleteMany({"Gender": "MALE"})
    - Deletes all the documents having the criteria
  - Ex: db.collection.deleteMany({})
    - Deletes all the documents
  - [What's the difference between "deletemany" and "remove" in mongodb? - Stack Overflow](#)
- **Ctrl + c / quit()** : used to quit from the mongo shell