

DataBase

- used to store Data

Two Types of Data DataBase

- 1) Relational DataBase
- 2) Non Relational DataBase

1) Relational DataBase

Eg: Mysql, SQLServer

- Datas are stored as table data

2) Non Relational DataBase

Eg: MongoDB, DynamoDb

- Datas are stored as documents (json data)

eg:

```
{
  "id":123,
  "name":'Sean',
  'email':'sean@gmail.com',
  'address':{
    'houseno':1156,
    'area':'newyork',
  }
}
```

- Table in Relational database is called Collection in Non Relational DB
- Each row in Relational database table is called Document in Non Relational DB

Basic mongoDB commands

show databases : to list all databases

use database_name: to use a particular database

show collections : to list all collections inside that DB

db.collection_name.find() : to list all documents inside that collection

db.collection_name.find().limit(2) : to list first 2 items

db.collection_name.findone({name:'sean'}): to lsit the documnet that specifies condition passed

db.collection_name find().sort({age:1}) : t o sort documents in ascending order based on age

db.collection_name find().sort({age:-1}) : t o sort documents in descending order based on age

db.collection_name.insertOne({name:'heather',email:'heather@gmail.com',age:27})

db.collection_name.insertMany([{name:'heather',email:'heather@gmail.com',age:27},{}

])

db.collection_name.countDocuments() : to lsit number of documnets in that

```
collection
db.collection_name.find({age:{$gt:27}}) : to list documents with age greater than 27
db.collection_name.find({age:{$gte:27}}) : to list documents with age greater than or equal to 27
db.collection_name.find({age:{$lt:27}}) : to list documents with age less than 27
db.collection_name.find({age:{$lte:27}}) : to list documents with age less than or equal to 27
db.collection_name.find({$and:[{age:{$gt:17}},{age:{$lte:20}]}) : to club multiple conditions
db.collection_name.updateOne({ name: 'sean' }, { $set: { age: 100 } })
```