

Basic MongoDB

Documentation, getting started

<https://docs.mongodb.com/manual/tutorial/getting-started/>

<https://zellwk.com/blog/install-mongodb/>

MongoDB CRUD operation:

<https://docs.mongodb.com/manual/crud>

By default, when mongodb is installed. It comes with 3 preload database, and they are "admin, config, local"

> use shopdb (switch to database shopdb), type "db" and tells you which database you are working in

Collection in mongodb is similar to the table in sql world

> db.products.insertOne({_id : 1, name: "Pen", price: 1.20})

> db.products.insertOne({_id : 2, name: "Pencil", price: 0.8})

> show collections

Read data : <https://docs.mongodb.com/manual/reference/method/db.collection.find/#db.collection.find>

> db.products.find()

> db.products.find({name:"Pencil"})

> db.products.find({price :{\$gt:0.5}})

db.collection.find(query, projection)

projection is optional, you specified which field to return (1 means true, 0 means false)

> db.products.find({price :{\$gt:0.5}}, {name:1, price:1})

> db.products.find({price :{\$gt:0.5}}, {name:1, _id:0})

//id will show up by default, turn it off by giving 0

> db.products.updateOne({_id : 1}, {\$set:{stock :32}})

> db.products.updateOne({_id:2}, {\$set:{stock:12}})

Relationship in MongoDB, for example: embedded reviews

```
db.products.insert(
```

```
{
  _id:3,
  name: "Rubber",
  price:1.30,
  stock:43,
  reviews:[
    {
      authorName: "Sally",
      rating:5,
      review: "Best Rubber ever"
    },
    {
      authorName: "John",
      rating:5,
      review: "good Rubber"
    }
  ]
}
```

```
> db.products.insert({orderNumber : 3243, productsOrdered: [1,2]})
```

(1, and 2 refer to order id)

MONGODB IN NODE.JS

> MONGODB native driver v.s. Mongoose

The most common way is to use mongoose in order to work with mongoose.

IN this learning, as we are using node.js. This MONGODB driver we apply will be:

<https://docs.mongodb.com/drivers/>

<https://docs.mongodb.com/drivers/node/>

<https://docs.mongodb.com/drivers/node/quick-start>

Node.js using Mongodb full guid:

<https://mongodb.github.io/node-mongodb-native/2.2/quick-start/quick-start/>

This however, is very wordy. Most Node developer prefer Mongoose (In another pdf). It is alot easier