

MongoDB ~ Mongo University (Chapter 1 & 2)

VS SQL DB

stored as documents

documents ~ collection

doesn't utilize tables (rows and columns)

documents ~ collection ~ structured way to store and access data

flynn/flynn
"05/26 + 2/26"

①

What is documents?

{ <field> : <value> ,

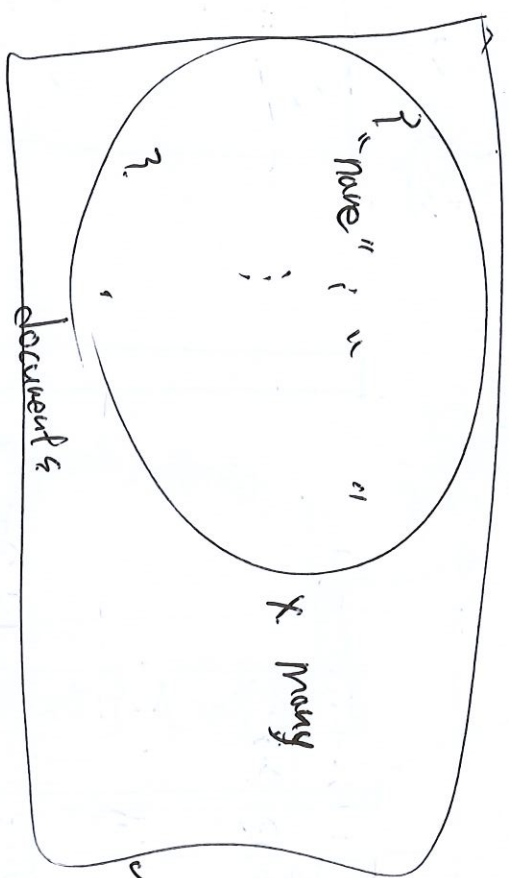
:

ex) "name" : "flynn"

*

}

<key, value> key <value>



collections

db ~ collections ~ documents

JSON Format

Encoding UTF-8.

①

key: value

key: value

Data Support

String ? key: value
Boolean key: value
Number key: value
Array

Readability (Human and Machine)

②

String " " ? key: value

keys must be surrounded by " "

JSON format -> Binary

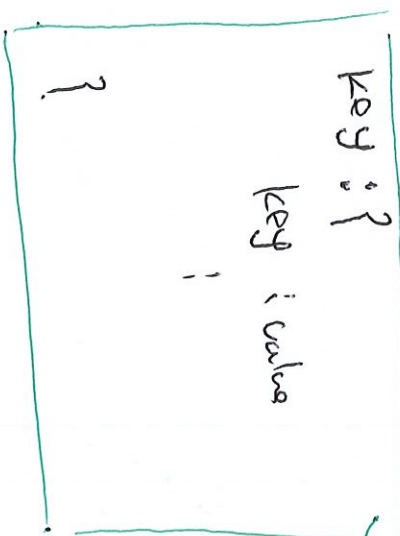
Binary JSON

Speed
Space
Flexibility

Encoding Binary

Data Support

String
Boolean
Number (Integer, long, float, ...)
Array
Date
Raw Binary



Sub-Document

Pros

Cons

Friendly
Readable
Familiar
Text based
Space for
Limited

Export local machine

JSON

mongoimport

Export mongoexport

Export mongo restore

mongodump

Export

mongoexport --uri "<Atlas Cluster URI>" --bson

mongoexport --uri "<Atlas Cluster URI>"

--collection = <collection name>

--out = <file name>.json

drop

import/export

보통 클라이언트 파일

ODPI string

Added username password

mongodb+srv://user:password@cluster123.mongodb.net/database

Atlas cluster

db name

JSON query { "state": "NY", "city": "ALBANY" }

NY ~~ALBANY~~ query 가 필요
and

→ ? SQL style 아냐? order by ?
group by size document DB에서 어떻게 하냐?

Atlas MongoDB Query (보통 클라이언트 파일)

기존에 클라이언트 파일은

Show dbs

= du database etc...

* find() command.

db.collectionname.find({state: "NY"})

SQL query

How many ~~are~~ count pretty ~~pretty~~

it
Iterates through a cursor.

Cursor

A pointer to a result set of a query

Pointer
A direct address of the memory location.

* find
Documentation MongoDB

find documentation

(4)

photo type

db.collection.find(query, projection)

ОПРЕДЕЛЕНИЕ ПРОЕКЦИИ
select * from table.
PS documents - 49.

projection

{ <field> : <value>, <field2> : <value>... }

prototype

<field>: <1 or true>

<field>: <0 or false>

"field.\$": <1 or true>

<field>: <array projection>

<field>: <\$meta expression>

<field>: <aggregation expression>

need drill down.

Chapter 3: Creating & Manipulating Documents. Catlas w12

* Every document must have a unique id value.

```
{
  "-id": "1a"
}
{
  "-id": "1b"
}
{
  "-id": "4c"
}
```

[definitely not a very good use of memory space]

• All doc.

~~* MongoDB~~ data modeling course " 우테코 " .

Object Id () : Default value for the -id field unless otherwise specified.

③ Inserting Documents: Errors.

error code : 11000
↳ Duplicate "-id"

- 3d를 지우고 insert하면 insert가 실패, 복제되는지 - Id가 지워짐
- 지워 지는 것으로 보아 삭제, Integrity 문제가 있음..

Tips : db.collection.findOne() ⑤

→ 정렬 shape 정렬 (정렬) 후 오름 정렬.

④ Insert Documents: Order.

* db.collectionname.insert()

```
[ { test: 1 }, { test: 12 }, { test: 13 } ]
```

↳ 정렬이 doc를 따라서 insert가 됨.

```
[ { "ordered": false } ]
```

Tips. ~~db~~ collection 이름 정렬, Collection은 비교 비율 비율. 주입 정렬.

* - Id의 order 변경 // Insert가 될 때 오름 정렬 정렬 정렬 check

② Update Documents (MQL)

6

db.updateMany({ "city": "HUDSON", "line": 1, "pop": 10 })

increment (key) value. pop 을 10만큼 증가

... 문장이 막히지 않음 ... 연산

db.zip.updateOne({ "zip": "12534" }, { \$set: { "pop": 17630 } }) ... ok.

{ \$set: { "population": 17630 } } ... ok.

2 update 쿼리가 실행. population 을 먼저 field 로 업데이트 후 추가되버림..
"zip" : "12534"

db.grades.updateOne({ "student_id": 1250, "class_id": 3393 }, { \$push: { "score": { "type": "extra credit", "score": 100 } } })

* array 에게 추가하는 element. add 하기.

adds an element to an array field.

2 document element 형식이 맞지 않으면 shapeoid error. < goy/ing

② Deleting Documents.

o db.collectionname.drop()

deleteOne() / deleteMany()

→ Caution !!

After these commands is issued the data is GONE.

* One / Many - function find. (find, insert, update, ~~del~~ drop)

→ document find operation.

→ find, insert, update, del.

o Indexing and Aggregation / modeling / transaction. (3/5)

* db.collection.drop(), db.dropDatabase()