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LAB SUBMISSION SYSTEM:



GOOGLE

CLASSROOM



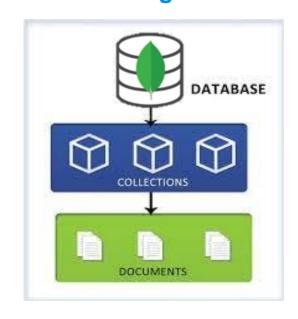
Outline

- 1. Connect to a MongoDB Cloud database
- 2. CRUD Operations of MongoDB
 - Create (Insert), Update, Delete Documents
 - Read data
 - Simple query
 - Query nested field
 - Aggregate function
 - Join/Link documents

MongoDB Lab Architecture

DDM2020 MongoDB Cloud

- 2 Databases
 - O Shop101
 - O RDBProject
- Shop101
 - O Customer
- Username
 - O st_dmm/st_dmm
 - O onlne/online
 - O offline/offline



MongoDB Shell

mongo "mongodb+srv://dmmcluster.fluoi. gcp.mongodb.net/<dbname>"

- --username <username>
- --password <password>

i.e., mongo

"mongodb+srv://dmmcluster.fluoi.gcp.mongodb.net/shop101" --username st_dmm --password st_dmm

1.Connect to shop101 database

```
Command Prompt - mongo "mongodb+srv://dmmcluster.f1uoi.gcp.mongodb.net/shop101" --username st dmm --password st dmm
                                                                                   ×
D:\ Phd Candidate\AITTA-DMM\mongodb-win32-x86 64-windows-4.4.1\bin>mongo "mongodb+s^
rv://dmmcluster.f1uoi.gcp.mongodb.net/shop101" --username st dmm --password st dmm
MongoDB shell version v4.4.1
connecting to: mongodb://dmmcluster-shard-00-01.f1uoi.gcp.mongodb.net:27017,dmmclus
ter-shard-00-02.f1uoi.gcp.mongodb.net:27017,dmmcluster-shard-00-00.f1uoi.gcp.mongod
b.net:27017/shop101?authSource=admin&compressors=disabled&gssapiServiceName=mongodb
&replicaSet=atlas-omm7a6-shard-0&ssl=true
Implicit session: session { "id" : UUID("1a9513c0-f07a-4484-a914-c078154589fc") }
MongoDB server version: 4.2.9
WARNING: shell and server versions do not match
Error while trying to show server startup warnings: user is not allowed to do actio
n [getLog] on [admin.]
MongoDB Enterprise atlas-omm7a6-shard-0:PRIMARY>
MongoDB Enterprise atlas-omm7a6-shard-0:PRIMARY> l
uncaught exception: ReferenceError: l is not defined :
@(shell):1:1
MongoDB Enterprise atlas-omm7a6-shard-0:PRIMARY>
```

Common command in mongoDB shell

more command: https://docs.mongodb.com/manual/reference/mongo-shell/

Show databases

Show collections

Listing all the databases in mongoDB

Listing all the tables in the current database

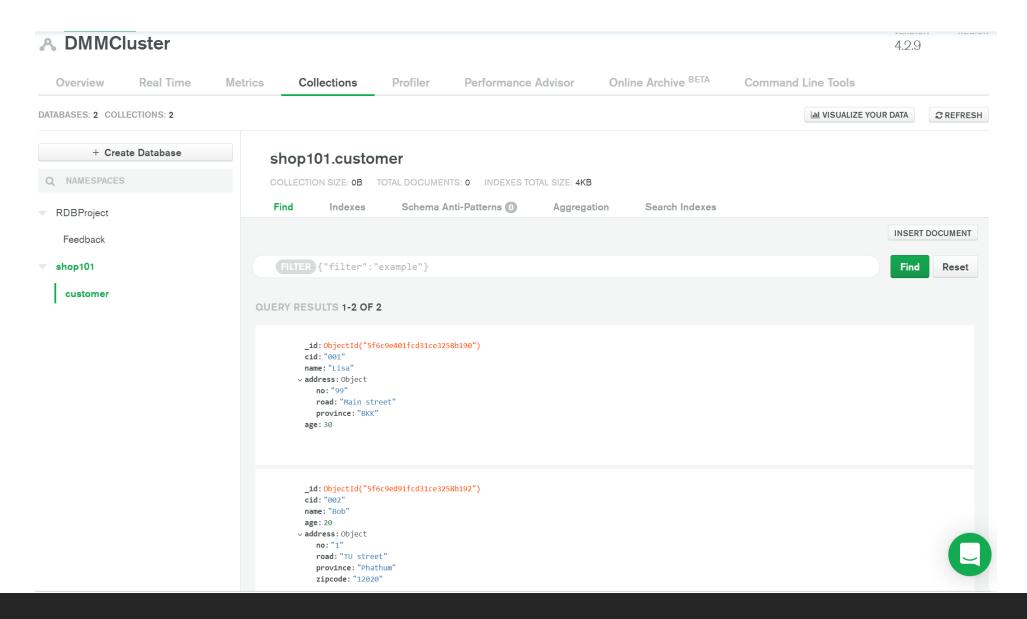
```
MongoDB Enterprise atlas-omm7a6-shard-0:PRIMARY> show databases
RDBProject 0.000GB
admin 0.000GB
local 1.224GB
shop101 0.000GB
MongoDB Enterprise atlas-omm7a6-shard-0:PRIMARY> show collections
customer
MongoDB Enterprise atlas-omm7a6-shard-0:PRIMARY> show collections
```

Common command in mongoDB shell

more command: https://docs.mongodb.com/manual/reference/mongo-shell/

db.collection.find(): Find all documents in the collection.

Shop101 Database in MongoDB Cloud Atlas



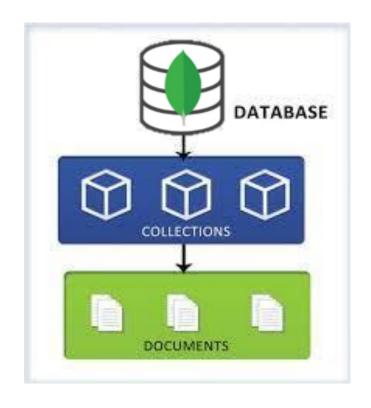
2. INSERT Operations of MongoDB

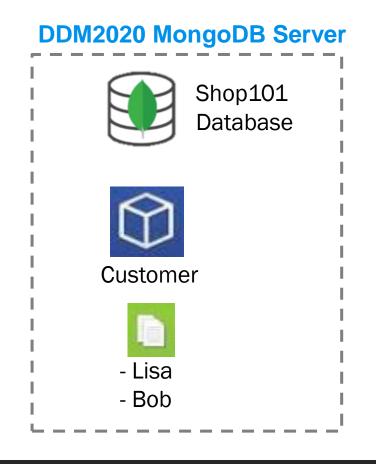
Insert Documents

```
db.collection.insertMany()

Syntax:
db.collection.insertMany(
    [ <document 1> , <document 2>, ... ]
)
```

Document Model Architecture





Insert information about inventory - canvas - pen - mat - mousepad

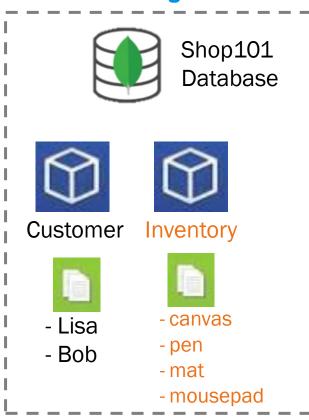
Insert inventory documents

```
db.inventory.insertOne(
    { item: "canvas", qty: 100, price: 500, tags: ["cotton"], size: { h: 28, w: 35.5, uom: "cm" } })
db.inventory.insertMany([
    { item: "pen", qty: 25, price: 200, tags: ["red"], size: { h: 14, w: 1, uom: "cm" } },
    { item: "mat", qty: 85, price: 99, tags: ["gray"], size: { h: 27.9, w: 35.5, uom: "cm" } },
    { item: "mousepad", qty: 25, price: 29, tags: ["gel", "blue"], size: { h: 19, w: 22.85, uom: "in" } }
])
```

```
Command Prompt - mongo "mongodb+srv://dmmcluster.f1uoi.gcp.mongodb.net/shop101" --username st_dmm --password st_dmm
MongoDB    Enterprise atlas-omm7a6-shard-0:PRIMARY> db.inventory.insertOne(
       { item: "canvas", qty: 100, price: 500, tags: ["cotton"], size: { h: 28, w: 35.5, uom: "cm" } })
        "acknowledged" : true,
        "insertedId" : ObjectId("5f6cb1e662783426b926a1b7")
MongoDB Enterprise atlas-omm7a6-shard-0:PRIMARY> db.inventory.insertMany([
       { item: "pen", qty: 25, price: 200, tags: ["red"], size: { h: 14, w: 1, uom: "cm" } },
       { item: "mat", qty: 85, price: 99, tags: ["gray"], size: { h: 27.9, w: 35.5, uom: "cm" } },
       { item: "mousepad", qty: 25, price: 29, tags: ["gel", "blue"], size: { h: 19, w: 22.85, uom: "in" } }
    1)
        "acknowledged" : true,
        "insertedIds" : [
                 ObjectId("5f6cb1e662783426b926a1b8"),
                 ObjectId("5f6cb1e662783426b926a1b9"),
                 ObjectId("5f6cb1e662783426b926a1ba")
```

Verify the inventory insertion

DDM2020 MongoDB Cloud



```
Command Prompt - mongo "mongodb+srv://dmmcluster.f1uoi.gcp.mongodb.net/shop101" --username st dmm --password st dmm
                                                                    MongoDB Enterprise atlas-omm7a6-shard-0:PRIMARY> show collections
customer
inventory
MongoDB Enterprise atlas-omm7a6-shard-0:PRIMARY> db.inventory.find()
 "_id" : ObjectId("5f6cb1e662783426b926a1b7"), "item" : "canvas", "qty"
 100, "price" : 500, "tags" : [ "cotton" ], "size" : { "h" : 28, "w" : 3
5.5, "uom" : "cm" } }
 5, "price" : 200, "tags" : [ "red" ], "size" : { "h" : 14, "w" : 1, "uom"
 : "cm" } }
 " id" : ObjectId("5f6cb1e662783426b926a1b9"), "item" : "mat", "qty" : 8
5, "price" : 99, "tags" : [ "gray" ], "size" : { "h" : 27.9, "w" : 35.5,
"uom" : "cm" } }
 " id" : ObjectId("5f6cb1e662783426b926a1ba"), "item" : "mousepad", "qty
  : 25, "price" : 29, "tags" : [ "gel", "blue" ], "size" : { "h" : 19, "w
  : 22.85, "uom" : "in" } }
MongoDB Enterprise atlas-omm7a6-shard-0:PRIMARY>
```

Insert Sales information



Shop101 Database













- Lisa
- Bob
- canvas
- pen
- mat
- mousepad



Insert transaction about sales



- Lisa bought 1 canvas and 1 pen ...
- Bob bought 1 mousepad
- Bob bought 1 mat ...

Insert sales

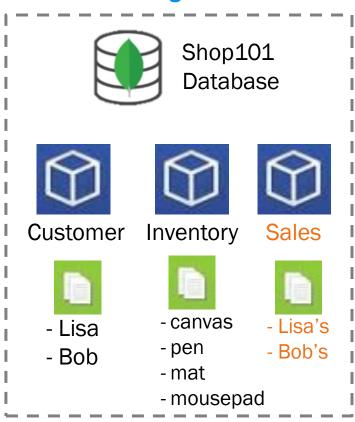
```
db.sales.insertOne(
    { item: [{pid: "canvas", qty: 1, price: 500},{pid: "pen", qty: 1, price: 200}], customer:"Lisa",
    total:700, couponused:true })

db.sales.insertOne(
    { item: [{pid: "mousepad", qty: 1, price: 29}], customer:"Bob", total:29, couponused:true })

db.sales.insertOne(
    { item: [{pid: "mat", qty: 1, price: 99}], customer:"Bob", total:99, couponused:false })
```

Verify the sales insertion

DDM2020 MongoDB Cloud



```
MongoDB Enterprise Cluster0-shard-0:PRIMARY> db.sales.find().pretty()
       "_id" : ObjectId("5d8f62648fb57f941738209b"),
       "item" : |
                        "pid" : "canvas",
                        "qty" : 1,
                        "price" : 500
                        "pid" : "pen",
                       "qty" : 1,
                        "price" : 200
       "customer" : "Lisa",
       "total" : 700,
       "couponused" : true
       " id" : ObjectId("5d8f63588fb57f941738209c")
```

3. UPDATE Operations of MongoDB

Update customer add status field

Relational Database SQL MongoDB Command

```
Alter table customer db.customer.updateMany(
add status char(1) { },

+ {$set: {status: "A"}}}

Update customer )
set status ="A"

Update customer db.customer.updateMany(
set status ="I" {name:"Lisa" },
where name ="Lisa" {$set: {status: "I"}}
)
```



- Lisa
- Bob





- Lisa status="I"
- Bob status="A"

4. Basic QUERY in MongoDB

FIND()

Query Documents

db.collection.find()

db.collection.find(query, projection)

- query: document
 - Optional. Specifies selection filter using <u>query</u>
 <u>operators</u>. To return all documents in a collection,
 omit this parameter or pass an empty document
 ({}).
- projection: document
 - Optional. Specifies the fields to return in the documents that match the query filter. To return all fields in the matching documents, omit this parameter.

https://docs.mongodb.com/manual/reference/method/db.collection.find/#db.collection.find

Note: pretty() - displays the results in a formatted way.

Basic Select

SQL SELECT Statements	MongoDB find() Statements
SELECT * FROM Customer	db.customer.find().pretty()

```
MongoDB Enterprise Cluster0-shard-0:PRIMARY> db.customer.find().pretty()
       " id" : ObjectId("5d8e32391c9d440000ea487d"),
       "cid" : "001",
       "name" : "Lisa",
       "address" : {
               "no": "99",
               "road" : "main street",
               "province" : "BKK"
       },
       "age" : 30,
       "status" : "I"
       " id" : ObjectId("5d8e34411c9d440000ea487f"),
        "cid" : "002",
       "name" : "Bob",
       "address" : {
               "no" : "1",
               "road" : "TU street",
               "province" : "Phathum",
               "zipcode" : "12020"
       },
       "age" : 20,
       "status" : "A"
MongoDB Enterprise Cluster0-shard-0:PRIMARY>
```

Projection (return some fields)

```
SELECT cid,name

db.Customer. find(

{ },

{cid:1, name:1,_id:0}

}

Show

Not Show
```

```
MongoDB Enterprise Cluster0-shard-0:PRIMARY> db.customer.find({},{cid:1,name:1,_id:0})
{ "cid" : "001", "name" : "Lisa" }
{ "cid" : "002", "name" : "Bob" }
MongoDB Enterprise Cluster0-shard-0:PRIMARY>
```

Order by

```
Select * from customer order by name db.customer.find().sort({name:1}) 1 = ASC

Select * from customer order by name db.customer.find().sort({name:-1}) -1 = DESC

desc
```

```
Command Prompt - mongo "mongodb+srv://dmmcluster.fluoi.gcp.mongodb.net/shop101" --username st_dmm -- password st_dmm

MongoDB Enterprise atlas-omm7a6-shard-0:PRIMARY> db.customer.find({},{cid:1,name:1,_id:0})
.sort({name:1})
{ "cid" : "002", "name" : "Bob" }
{ "cid" : "001", "name" : "Lisa" }
MongoDB Enterprise atlas-omm7a6-shard-0:PRIMARY> db.customer.find({},{cid:1,name:1,_id:0})
.sort({name:-1})
{ "cid" : "001", "name" : "Lisa" }
{ "cid" : "002", "name" : "Bob" }
MongoDB Enterprise atlas-omm7a6-shard-0:PRIMARY>
```

WHERE condition

```
db.Customer.find(
SELECT *
                                           {name ="Lisa"}
FROM Customer
WHERE Name ="Lisa"
MongoDB Enterprise Cluster0-shard-0:PRIMARY> db.customer.find({name:"Lisa"}).pretty()
        "_id" : ObjectId("5d8e32391c9d440000ea487d"),
        "cid" : "001",
        "name" : "Lisa",
        "address" : {
                "no" : "99",
                "road" : "main street",
                "province" : "BKK"
```

```
SELECT * db.Customer.find(

FROM Customer

{ name : { $ne:"Lisa" } }

WHERE name != "Lisa" )
```

```
SELECT *
FROM Customer
WHERE age > 25
```

```
SELECT *
FROM Customer
WHERE age < 25
```

Query Operators

- Seq: Matches values that are equal to a specified value.
- \$gt: Matches values that are greater than a specified value.
- \$\square \text{\$\frac{1}{2}}\$ specified value.
- \$\square\text{sin}\$: Matches any of the values specified in an array.
- Slt: Matches values that are less than a specified value.
- Slte: Matches values that are less than or equal to a specified value.
- \$\square \text{\$\frac{1}{2}}\$ me: Matches all values that are not equal to a specified value.
- \$\frac{\mathbf{s}}{\min}\$: Matches none of the values specified in an array.

AND

```
      SELECT *
      db.Customer.find(

      FROM Customer
      { age: { $gt: 25, $lte: 50 } }

      WHERE age > 25
      )

      AND age <= 50</th>
```

Example: db.customer.find({\$\frac{\\$and}{\}and}: [{\status: "A"}, {\age:20}]})

OR

```
SELECT *
                                         db.Customer.find(
                                               { $or: [ { status: "A" } , { age: 20 } ] }
FROM Customer
WHERE status = "A"
OR age = 20
MongoDB Enterprise Cluster0-shard-0:PRIMARY> db.customer.find({$or:[{status:"A"},{age: 20}]}).pretty()
       "_id" : ObjectId("5d8e34411c9d440000ea487f"),
       "cid" : "002",
       "name" : "Bob",
       "address" : {
              "no" : "1",
              "road" : "TU street",
              "province" : "Phathum",
              "zipcode" : "12020"
       "age" : 20,
       "status" : "A"
MongoDB Enterprise Cluster0-shard-0:PRIMARY>
```

LIKE

```
SELECT *
                                 db. Customer.find( { name : /is/ } )
FROM
       Customer
WHERE name like "%is%"
                                 -or-
                                 db.Customer.find( { name : { $regex: /is/ } } )
MongoDB Enterprise Cluster0-shard-0:PRIMARY> db.customer.find({name :/is/}).pretty()
        "_id" : ObjectId("5d8e32391c9d440000ea487d"),
        "cid" : "001",
        "name" : "Lisa",
        "address" : {
                "no" : "99",
                "road": "main street",
               "province" : "BKK"
        "age" : 30,
        "status" : "I"
MongoDB Enterprise Cluster0-shard-0:PRIMARY>
```

IN

```
db.Customer .find( { status: { $in: [ "A", "D" ] } } )
MongoDB Enterprise Cluster0-shard-0:PRIMARY> db.customer.find({status:{$in: ["A","D"]}}).pretty()
       "_id" : ObjectId("5d8e34411c9d440000ea487f"),
       "cid" : "002",
       "name" : "Bob",
       "address" : {
               "no" : "1",
               "road" : "TU street",
               "province" : "Phathum",
               "zipcode" : "12020"
       "age" : 20,
       "status" : "A"
```

5. QUERY on Complex fields

NESTED FIELDS OR ARRAY FIELDS

Complex Fields

Nested Field

Ex. Size

Array Field

Ex. Tags

```
🚾 Command Prompt - mongo "mongodb+srv://dmmcluster.f1uoi.gcp.mongodb.net/shop101" --username st_dmm --password st_dmm
MongoDB Enterprise atlas-omm7a6-shard-0:PRIMARY> db.inventory.find().pretty()
        "_id" : ObjectId("5f6cb1e662783426b926a1b7"),
         "item" : "canvas",
         "qty" : 100,
         "price" : 500,
         "tags" : [
                  "cotton"
        ],
"size" : {
                  "h" : 28,
                  "w" : 35.5,
                  "uom" : "cm"
        " id" : ObjectId("5f6cb1e662783426b926a1b8"),
         "item" : "pen",
         "qty" : 25,
         "price" : 200,
         "tags" : [
                  "red"
       ],
"size" : {
                  "h" : 14,
                  "w" : 1,
                  "uom" : "cm"
```

Query Nested Field Uses dot notation to access fields in an embedded document:

Select all documents where uom of size is in "in" unit

```
db.inventory.find( { "size.uom": "in" } )
```

selects items where their height less than 15 CM.

```
MongoDB Enterprise Cluster0-shard-0:PRIMARY> db.inventory.find( { "size.h": { $lt: 15 }, "size.uom": "cm" } ).pretty()
       "_id" : ObjectId("5d8e3f03ba0c8c019a09414f"),
       "item" : "pen",
        "qty" : 25,
MongoDB Enterprise Cluster0-shard-0:PRIMARY>
```

Query Array Field

selects items where their tags has "blue".

```
db.inventory.find({tags: "blue"}).pretty()
```

```
MongoDB Enterprise atlas-omm7a6-shard-0:PRIMARY> db.inventory.find({tags : "blue"}).pretty()
       "_id" : ObjectId("5f6cb1e662783426b926a1ba"),
       "item" : "mousepad",
       "qty" : 25,
       "price" : 29,
       "tags" : [
                "gel",
                "blue"
       "size" : {
                "h" : 19,
               "w" : 22.85,
               "uom" : "in"
```

6. Aggregate Operations

AGGREGATION OPERATIONS GROUP VALUES FROM MULTIPLE DOCUMENTS TOGETHER AND CAN PERFORM A VARIETY OF OPERATIONS ON THE GROUPED DATA TO RETURN A SINGLE RESULT.

SQL Terms, Functions, and Concepts	MongoDB Aggregation Operators
WHERE	\$match
GROUP BY	\$group
HAVING	\$match
SELECT	<pre>\$project</pre>
ORDER BY	\$sort
LIMIT	\$limit
SUM()	\$sum
COUNT()	<pre>\$sum \$sortByCount</pre>
join	\$lookup

<u>EX</u>. SQL -> Select sum(amount) from orders where status = "A" group by cust_id Mongo -> ???

```
Collection
db.orders.aggregate( [
         $match stage \rightarrow { $match: { status: "A" } },
         $group stage \(\bigs\) \{ \(\frac{1}{3}\) \(\frac{1}\) \(\frac{1}{3}\) \(\frac
                       cust id: "A123",
                       amount: 500,
                       status: "A"
                                                                                                                                                                                                     cust id: "A123",
                                                                                                                                                                                                     amount: 500,
                                                                                                                                                                                                     status: "A"
                       cust id: "A123",
                                                                                                                                                                                                                                                                                                                                                                                             id: "A123",
                       amount: 250,
                                                                                                                                                                                                                                                                                                                                                                                             total: 750
                       status: "A"
                                                                                                                                                                                                     cust id: "Al23",
                                                                                                                                                                                                      amount: 250,
                                                                                                                  $match
                                                                                                                                                                                                                                                                                               $group
                                                                                                                                                                                                      status: "A"
                       cust id: "B212",
                                                                                                                                                                                                                                                                                                                                                                                            id: "B212",
                       amount: 200,
                                                                                                                                                                                                                                                                                                                                                                                             total: 200
                       status: "A"
                                                                                                                                                                                                     cust id: "B212",
                                                                                                                                                                                                     amount: 200,
                                                                                                                                                                                                      status: "A"
                       cust_id: "A123",
                       amount: 300,
                       status: "D"
                            orders
```

Sales documents

```
MongoDB Enterprise Cluster0-shard-0:PRIMARY> db.sales.find().pretty()
       "_id" : ObjectId("5d8f62648fb57f941738209b"),
       "item" : [
                        "pid" : "canvas",
                        "qty" : 1,
                        "price" : 500
                        "pid" : "pen",
                        "qty" : 1,
                        "price" : 200
        "customer" : "Lisa",
       "total" : 700,
       "couponused" : true
```

```
"_id" : ObjectId("5d8f63588fb57f941738209c"),
        "item" : [
                        "pid" : "mousepad",
                        "qty" : 1,
                        "price" : 29
        "customer": "Bob",
        "total" : 29,
        "couponused" : true
        "_id" : ObjectId("5d9027dd8fb57f941738209d"),
        "item" : [
                        "pid" : "mat",
                        "qty" : 1,
                        "price" : 99
        "customer" : "Bob",
        "total" : 99,
        "couponused" : false
MongoDB Enterprise Cluster0-shard-0:PRIMARY>
```

SUM

COUNT

```
db.sales.aggregate([ { $group: { _id: "$customer", total: { $sum: 1} } } }
```

```
MongoDB Enterprise atlas-omm7a6-shard-0:PRIMARY> db.sales.aggregate([
{ $group: { _id: "$customer", total: { $sum: 1} } } ])
{ "_id" : "Lisa", "total" : 1 }
{ "_id" : "Bob", "total" : 2 }
MongoDB Enterprise atlas-omm7a6-shard-0:PRIMARY> _
```

Note:

FIND() also has COUNT() function

```
MongoDB Enterprise Cluster0-shard-0:PRIMARY> db.sales.find({customer:"Lisa"}).count()

1

MongoDB Enterprise Cluster0-shard-0:PRIMARY> db.sales.find({customer:"Bob"}).count()

2
```

Average, Min, Max

```
db.sales.aggregate([
                    { $group: { _id: "$customer", average: { $avg: "$total" } } }
db.sales.aggregate([
                    { $group: { _id: "$customer", minimum: { $min: "$total" } } }
db.sales.aggregate([
                    { $group: { _id: "$customer", maximum: { $max: "$total" } } }
```

Result

```
MongoDB    Enterprise atlas-omm7a6-shard-0:PRIMARY> db.sales.aggregate([
" id" : "Bob", "minimum" : 29 }
{ " id" : "Lisa", "minimum" : 700 }
MongoDB Enterprise atlas-omm7a6-shard-0:PRIMARY> db.sales.aggregate([
$group: { id: "$customer", maximum: { $max: "$total" } } } ])
 " id" : "Bob", "maximum" : 99 }
 " id" : "Lisa", "maximum" : 700 }
MongoDB Enterprise atlas-omm7a6-shard-0:PRIMARY> db.sales.aggregate([
 $group: { id: "$customer", average: { $avg: "$total" } } } ])
 " id" : "Bob", "average" : 64 }
 " id" : "Lisa", "average" : 700 }
MongoDB Enterprise atlas-omm7a6-shard-0:PRIMARY>
```

HAVING

Sort and Limit in Aggregate

db.sales.aggregate([

```
{$group:{_id:"$customer",total: {$sum:"$total"}}},
  { $sort: { total: -1 } }
MongoDB Enterprise atlas-omm7a6-shard-0:PRIMARY> db.sales.aggregate([{$group:
" id" : "Lisa", "total" : 700 }
 "_id" : "Bob", "total" : 128 }
MongoDB Enterprise atlas-omm7a6-shard-0:PRIMARY> db.sales.aggregate([{$group:
"_id" : "Bob", "total" : 128 }
 "_id" : "Lisa", "total" : 700 }
MongoDB Enterprise atlas-omm7a6-shard-0:PRIMARY>
```

```
MongoDB Enterprise atlas-omm7a6-shard-0:PRIMARY> db.sales.aggregate([{$group: {_id:"$customer",total: {$sum:"$total"}}}, { $sort: { total: -1 }},{$limit:1}])
{ "_id" : "Lisa", "total" : 700 }
MongoDB Enterprise atlas-omm7a6-shard-0:PRIMARY>
```

7. JOIN Operations

JOIN

Syntax

```
$lookup:
    {
      from: <collection to join>,
      localField: <field from the input documents>,
      foreignField: <field from the documents of the "from" collection>,
      as: <output array field>
    }
}
```

Join Customer vs. Sale

```
"_id" : ObjectId("5d8f62648fb57f941738209b"),
"item" : [
                "pid" : "canvas",
                "qty" : 1,
                "price" : 500
        },
{
                "pid" : "pen",
                "qty" : 1,
                "price" : 200
],
"customer" : "Lisa",
"total" : 700,
"couponused" : true.
"cust_info" : [
                "_id" : ObjectId("5d8e32391c9d440000ea487d"),
                "cid" : "001",
                "name" : "Lisa",
                "address" : {
                        "no" : "99",
                        "road" : "main street",
                        "province" : "BKK"
                },
                "age" : 30,
                "status" : "I"
```

Lab 6 Assignment

SUBMISSION SYSTEM: GOOGLE CLASSROOM

Mongo Shell download

Windows

https://downloads.mongodb.org/windows/mongodb-shell-windows-x86 64-4.4.1.zip

MACOS

brew install mongodb/brew/mongodb-community-shell

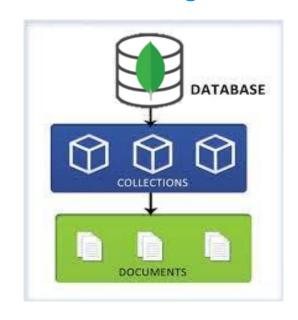
Ubuntu 16.04,18.04,20.04

https://downloads.mongodb.org/linux/mongodb-shell-linux-x86_64-ubuntu1604-4.4.1.tgz https://downloads.mongodb.org/linux/mongodb-shell-linux-x86_64-ubuntu1804-4.4.1.tgz https://downloads.mongodb.org/linux/mongodb-shell-linux-x86_64-ubuntu2004-4.4.1.tgz

1. Connect to RDBProject

- 2 Databases
 - O Shop101
 - O RDBProject
- RDBProject
 - O Feedback
- O Username
 - O st_dmm/st_dmm
 - O onlne/online
 - O offline/offline

DDM2020 MongoDB Cloud



MongoDB Shell

mongo "mongodb+srv://dmmcluster.fluoi. gcp.mongodb.net/<dbname>"

- --username <username>
- --password <password>

i.e., mongo

"mongodb+srv://dmmcluster.fluoi.gcp.mongodb.net/RDB Project" --username st_dmm --password st_dmm

2. Peer Review -> JSON Documents

	Α	В	С	D	E	F	G	Н				
1				Peer Feedback Form		back Form						
2	Re	viewer Name	XX	XX	XX							
3	Me	eting Room#	XX									
4												
5												
6	Team#	Project Title	Member#	Presenter Name	Time Taken (min)	Summary of Presentation	Strengths	Suggestions				
7	19	Bike sharing	19-1	Mr. XYZ	15	good presentation	precise and easy to understand	practice presentation skills				
8	20											
9												
10						{						
11 12						"mambar id", "10.1"						
						"member_id": "19-1",						
13	"presenter_name": "Mr. XYZ",											
	"project_id" : "19",											
"project_name": "Bike sharing",												
	"summary_of_presentation": "the presentation was well prepared and_ ",											
	·· · · · · · · · · · · · · · · · · ·											
	"strengths": ["precise", "easy to understand"],											
	"suggestions": ["practice presentation skills"]											
	•••											
						}						

3. Insert into feedback table in RDBProject MongoDB

4. Write MongoDB command to retrieve Task1-3 information

5. Submit the commands and the capture images in DMM GOOGLE CLASSROOM

Deadline TUE SEP 29 11:59 AM

LAB 5: REDIS SUBMIT on DSAI

LAB 6: MONGODB SUBMIT on GOOGLE CLASSROOM

LAB 7-10 SUBMIT on GOOGLE CLASSROOM

References

- https://docs.mongodb.com/manual/
- https://docs.mongodb.com/manual/reference/sql-comparison/#examples
- https://docs.mongodb.com/manual/reference/operator/aggregation/lookup/index.html#lookup-single-equality

Good Luck for the Midterm Exams

SEE YOU NEXT WEDNESDAY

