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MSc Part-I Sem-2

Subject: Big Data Technology Practical_6: Handling Unstructured

Open the command prompt and run the cd command to change directory and run the command "mongod" to start the server and run the command "mongo" to work mongoDB.

```
Command Prompt - mongo
ating System","attr":{"os":{"name":"Microsoft Windows 10","version":"10.0 (build 19044)"}}}

("t":{"$date":"2022-02-25T08:13:30.392+05:30"},"s":"I", "c":"CONTROL", "id":21951, "ctx":"initandlisten","msg":"Options

set by command line", "attr":{"options":{}}}

("t":{"$date":"2022-02-25T08:13:30.409+05:30"},"s":"E", "c":"CONTROL", "id":20557, "ctx":"initandlisten","msg":"DBEX

teption in initAndListen, terminating","attr":{"error":"NonExistentPath: Data directory C:\\data\\db\\ not found. Create

the missing directory or specify another path using (1) the --dbpath command line option, or (2) by adding the 'storage

dbPath' option in the configuration file."}

("t":{"$date":"2022-02-25T08:13:30.409+05:30"},"s":"I", "c":"REPL", "id":4784900, "ctx":"initandlisten","msg":"Step

ping down the ReplicationCoordinator for shutdown","attr":{"waitTimeMillis":15000}}

("t":{"$date":"2022-02-25T08:13:30.417+05:30"},"s":"I", "c":"COMMAND", "id":4784901, "ctx":"initandlisten","msg":"Shut

ting down the MirrorMaestro'

("t":{"$date":"2022-02-25T08:13:30.417+05:30"},"s":"I", "c":"SHARDING", "id":4784902, "ctx":"initandlisten","msg":"Shut

ting down the WaitForMajorityService"}
                                                                                                                                                                                                                                          )"}}}
"ctx":"initandlisten","msg":"Opti
  T:{ $date: 2022-02-25|08:13:30.417405:30 }, s::1", "c::"SHARDING", "10":4784902, "ctx": Initandlisten", msg": Shut
ing down the WaitForMajorityService"}
"t":{("$date":"2022-02-25T08:13:30.418+05:30"},"s":"I", "c":"NETWORK", "id":20562, "ctx":"initandlisten","msg":"Shut
own: going to close listening sockets"}
"t":{"$date":"2022-02-25T08:13:30.418+05:30"},"s":"I", "c":"NETWORK", "id":4784905, "ctx":"initandlisten","msg":"Shut
  ing down the global connection pool"}
"t":{"$date":"2022-02-25708:13:30.419+05:30"},"s":"I", "c":"CONTROL", "id":4784906, "ctx":"initandlisten","msg":"Shut
 "t":{"$date":"2022-02-25T08:13:30.419+05:30"},"s":"I", "c":"CONTROL", "id":4784906, "ctx":"initandlisten","msg":"Shut ing down the FlowControlTicketholder"}
"t":{"$date":"2022-02-25T08:13:30.419+05:30"},"s":"I", "c":"-", "id":20520, "ctx":"initandlisten","msg":"Stop ing further Flow Control ticket acquisitions."}
"t":{"$date":"2022-02-25T08:13:30.423+05:30"},"s":"I", "c":"NETWORK", "id":4784918, "ctx":"initandlisten","msg":"Shut ing down the ReplicaSetMonitor"}
"t":{"$date":"2022-02-25T08:13:30.423+05:30"},"s":"I", "c":"SHARDING", "id":4784921, "ctx":"initandlisten","msg":"Shut ing down the MapilcaSetMonitor"}
[ C. { $uate : "2022-02-25T08:13:30.423+05:30"},"s":"I", "c":"SHARDING", "id":4784921, "ctx":"initandlisten","msg":"Shut
ting down the MigrationUtilExecutor"}
['Tt":{"$date":"2022-02-25T08:13:30.424+05:30"},"s":"I", "c":"ASIO", "id":22582, "ctx":"MigrationUtil-TaskExecutor
","msg":"Killing all outstanding egress activity."}
["t":{"$date":"2022-02-25T08:13:30.432+05:30"},"s":"I", "c":"COMMAND", "id":4784923, "ctx":"initandlisten","msg":"Shut
ting down the ServiceEntryPoint"}
Command Prompt - mongo
                                                                                                                                                                                                                                                                                                                 xiting"}
"t":{"$date":"2022-02-25T08:13:30.435+05:30"},"s":"I", "c":"CONTROL", "id":23138, "ctx":"initandlisten","msg":"Shut
ing down","attr":{"exitCode":100}}
  \Program Files\MongoDB\Server\5.0\bin>mongo
longoDB shell version v5.0.6
connecting to: mongodb://127.0.0.1:27017/?compressors=disabled&gssapiServiceName=mongodb
implicit session: session { "id" : UUID("67bc152b-82ea-4650-a603-d4f6d24358e2") }
longoDB server version: 5.0.6
Warning: the "mongo" shell has been superseded by "mongosh",
Which delivers improved usability and compatibility.The "mongo" shell has been deprecated and will be removed in
 n upcoming release.
or installation instructions, see
ttps://docs.mongodb.com/mongodb-shell/install/
Welcome to the MongoDB shell.
or interactive help, type "help".
or more comprehensive documentation, see
  https://docs.mongodb.com/
uestions? Try the MongoDB Developer Community Forums
https://community.mongodb.com
  ne server generated these startup warnings when booting:
                   2022-02-25T08:08:32.416+05:30: Access control is not enabled for the database. Read and write access to data and
  configuration is unrestricted
                   Enable MongoDB's free cloud-based monitoring service, which will then receive and display metrics about your deployment (disk utilization, CPU, operation statistics, etc).
```

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Show list of databases

```
https://community.mongodb.com

The server generated these startup warnings when booting:
    2022-02-25T08:08:32.416+05:30: Access control is not enabled for the database. Read and write access to data and configuration is unrestricted

Enable MongoDB's free cloud-based monitoring service, which will then receive and display metrics about your deployment (disk utilization, CPU, operation statistics, etc).

The monitoring data will be available on a MongoDB website with a unique URL accessible to you and anyone you share the URL with. MongoDB may use this information to make product improvements and to suggest MongoDB products and deployment options to you.

To enable free monitoring, run the following command: db.enableFreeMonitoring()
To permanently disable this reminder, run the following command: db.disableFreeMonitoring()

> show dbs;
admin 0.000GB
config 0.000GB
local 0.000GB
local 0.000GB
switched to db RetailBikeDB
```

Creation of collection can be done using db.createCollection(name)

```
Command Prompt - mongo
                                                                                                                                                 To enable free monitoring, run the following command: db.enableFreeMonitoring()
To permanently disable this reminder, run the following command: db.disableFreeMonitoring()
  show dbs;
 admin 0.000GB
config 0.000GB
local 0.000GB
"ok" : 1 }
db.createCollection('production.brands')
  "ok" : 1 }
db.createCollection('production.stocks')
  "ok" : 1 }
db.createCollection('production.stores')
  "ok" : 1 }
db.createCollection('production.staffs')
  "ok" : 1 }
db.createCollection('sales.stores')
  "ok" : 1 }
db.createCollection('sales.staffs')
  "ok" : 1 }
db.createCollection('sales.customers')
  "ok" : 1 }
db.createCollection('sales.orders')
  "ok" : 1 }
db.createCollection('sales.order_items')
        : 1 }
```

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```
> show collections
production.brands
production.categories
production.staffs
production.stocks
production.stores
sales.customers
sales.order_items
sales.orders
sales.staffs
sales.staffs
```

1. production.categories

```
Select Command Prompt - mongo
  db.production.categories.insertMany(
               'category_id':1,
"category_name": "Road Bike"
... },
... {
... "category_id": 2,
... "category_name": "Mountain Bike"
... "category_name": "Mountain Bike"
      {
"category_id": 3,
"category_name": "Hybrid Bike"
      {
"category_id": 4,
"category_name": "Folding Bike"
 ... {
... "category_id": 5,
... "category_name": "Touring Bike"
... {
... "category_id": 6,
... "category_name": "Cruiser Bike"
... {
... "category_id": 7,
... "category_name": "Women Bike"
 ... {
... "category_id": 7,
... "category_name": "Women Bike"
                "acknowledged" : true,
                "insertedIds" : [

ObjectId("62184a406080c37f46a3ad74"),

ObjectId("62184a406080c37f46a3ad75"),
                                ObjectId("62184a406080c37f46a3ad76"),
                                ObjectId("62184a406080c37f46a3ad77"),
                                ObjectId("62184a406080c37f46a3ad77"),
ObjectId("62184a406080c37f46a3ad79"),
ObjectId("62184a406080c37f46a3ad79"),
ObjectId("62184a406080c37f46a3ad7a")
```

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2. production.products

```
Command Prompt-mongo

}

> db.production.products.insertMany(
... [
... {
... "product_id": 1,
... "product_name": "Honda Superfast",
... "brand_id": 1,
... "andel_year": 1994,
... "list_price": 25000
... },
... {
... "product_id": 2,
... "product_name": "6KU Bikes",
... "brand_id": 2,
... "category_id": 4,
... "model_year": 2000,
... "list_price": 30000
... },
... {
... "product_id": 3,
... "product_name": "Bianchi",
... "brand_id": 3,
... "category_id": 2,
... "model_year": 2002,
... "list_price": 30000
... },
... "product_id": 4,
... "product_name": "BMC Hybrid Bike",
```

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3. production.stocks

```
command Prompt - mongo
> db.production.stocks.insertMany(
... {
... "store_id": 1,
... "product_id": 1,
... "quantity": 15
... }
... "store_id": 2,
... "product_id": 4,
... "quantity": 20
... },
... {
... "store_id": 3,
... "product_id": 5,
... "quantity": 30
... }
... "store_id": 1,
... "product_id": 5,
... "quantity": 100
... }
... "store_id": 2,
... "product_id": 2,
... "quantity": 4
... }
... "store_id": 3,
... "product_id": 3,
```

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```
}
> db.sales.customers.insertMany(
... [
... {
... "customer_id": "Cus001",
... "first_name": "Jay",
... "last_name": "Mehta",
... "phone": 1234567890,
... "email": "jay@gmail.com",
... "street": "T.P Road",
... "city": "Mumbai",
... "state": "Maharashtra",
... "zip_code": 400072
... },
... {
... "customer_id": "Cus002",
... "first_name": "Ruhi",
... "last_name": "Singh",
... "phone": 7894561230,
... "email": "ruhi@yahoo.com",
... "street": "M.G Chauk",
... "city": "Mumbai",
... "state": "Maharashtra",
... "zip_code": 400072
... },
... "customer_id": "Cus003",
... "first_name": "Aria",
... "last_name": "Josh",
... "last_name": "Josh",
... "phone": 1245789630,
```

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```
... "email": "aria.josh@gmail.com",
... "street": "JVM",
... "city": "Gandhi Nagar",
 ... "state": "Gujrat",
... "zip_code": 401235
... {
... "customer_id": "Cus004",
... "first_name": "Mahi",
... "last_name": "Kaur",
"sbope": 4567890123,
... "phone": 4567890123,
... "email": "kaur.mahi@hotmail.com",
... "street": "J.V.L.R",
... "city": "Mumbai",
... "state": "Maharashtra",
... "zip_code": 400072
 ...},
... {
... "customer_id": "Cus005",
... "customer_id": "Cus005",
... "first_name": "Aditya",
... "last_name": "Yadav",
... "phone": 9638527410,
... "email": "aditya@gmail.com",
... "street": "Koliwada",
... "city": "Pune",
... "state": "Mahanashtra"
 ... "state": "Maharashtra",
... "zip_code": 300075
  ...}
                 "acknowledged" : true,
                 "insertedIds" : [

ObjectId("62184c366080c37f46a3ad8c"),

ObjectId("62184c366080c37f46a3ad8d"),
                                 ObjectId("62184c366080c37f46a3ad8e"),
                                 ObjectId("62184c366080c37f46a3ad8f"),
                                 ObjectId("62184c366080c37f46a3ad90")
```

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5. sales.order_items

... {
... "order_id": "ORD004",
... "product_id": 4,
... "quantity": 8,
... "list_price": 360000

... { ... "order_id": "ORD005",

... },

```
Command Prompt - mongo
> db.sales.order_items.insertMany(
... {
... "order_id": "ORD001",
... "product_id": 1,
... "quantity": 2,
... "list_price": 50000
... {
... "order_id": "ORD002",
... "product_id": 2,
... "quantity": 3,
... "list_price": 90000
... {
... "order_id": "ORD003",
... "product_id": 3,
... "quantity": 1,
... "list_price": 30000
```

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6. Sales.orders

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```
Command Prompt - mongo
... "shipped_date": 44314,
 ... "store_id": 2,
... "staff_id": 2
... {
... "order_id": "ORD004",
... "customer_id": "Cus004",
... "order_status": "Pending",
... "order_status : Pendin
... "order_date": 44367,
... "shipped_date": 44377,
... "store_id": 3,
... "staff_id": 3
... {
... "order_id": "ORD005",
... "customer_id": "Cus005",
... "order_status": "Pending",
... "order_date": 44367,
... "shipped_date": 44377,
... "store_id": 1,
"-toff_id": 1
 .. "staff_id": 1
               "acknowledged" : true,
               "insertedIds" : [
                               ObjectId("62184d6a6080c37f46a3ad96"),
                                ObjectId("62184d6a6080c37f46a3ad97"),
                               ObjectId("62184d6a6080c37f46a3ad98"),
ObjectId("62184d6a6080c37f46a3ad99"),
ObjectId("62184d6a6080c37f46a3ad9a")
               ]
```

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7. sales.staffs

```
Command Prompt - mongo
 > db.sales.staffs.insertMany(
... {
... "staff_id": 1,
... "first_name": "Pushpa",
... "last_name": "Yadav",
... "email": "pushpa@gmail.com",
... "phone": 999999999,
... "active": "Yes",
... "store_id": 1,
... "manager_id": 1
 ... "manager_id": 1
... {
... "staff_id": 2,
... "first_name": "Sadiksha",
... "last_name": "Singh",
... "email": "sadiksha@gmail.com",
... "phone": 8888888888,
... "active": "Yes",
"store id": 2,
 ... "store_id": 2,
 ... "manager_id": 1
 ... },
... {
... "staff_id": 3,
... "first_name": "Priya",
... "last_name": "Nadar",
... "last_name": "Nadar",
... "email": "priya@gmail.com",
... "phone": 777777777,
... "active": "Yes",
... "phone": 7777777777,
... "active": "Yes",
... "store_id": 3,
 ... "manager_id": 1
... }
... ]
                 "acknowledged" : true,
                ]
```

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8. sales.stores

```
Command Prompt - mongo
> db.sales.stores.insertMany(
... "store_id": 1,
... "store_name": "Ambika Showroom",
... "phone": 123456,
... "email": "ambika@gmail.com",
... "street": "GP",
... "city": "Mumbai",
... "state": "Maharashtra",
 ... "zip code": 400072
... },
... {
... "store_id": 2,
... "store_name": "Yash Bikes",
... "phone": 789456,
... "email": "yash.bikes@yahoo.com",
... "street": "H.G",
... "city": "Pune",
... "state": "Maharashtra",
... "zip_code": 300075
... },
... {
... "store_id": 3,
... "store_name": "Josh Automobiles",
 ... "phone": 456983,
... "email": "josh@gmail.com",
... "street": "M.G",
... "street": "M.G",
... "city": "Gandhi Nagar",
... "state": "Gujrat",
 ... "zip_code": 401235
               "acknowledged" : true,
               "insertedIds" : [
                             ObjectId("62184e886080c37f46a3ad9e"),
                              ObjectId("62184e886080c37f46a3ad9f"),
                             ObjectId("62184e886080c37f46a3ada0")
```

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9. Production.brands

```
command Prompt- mongo
> db.production.brands.insertMany(
... [
... {
... "brand_id": 1,
... "brand_name": "Honda"
... },
... {
... "brand_id": 2,
... "brand_name": "6KU Bikes"
... },
... {
... "brand_id": 3,
... "brand_name": "Bianchi"
... },
... {
... "brand_id": 4,
... "brand_id": 5,
... "brand_name": "BMC"
... }
... {
... "brand_id": 5,
... "brand_name": "Huffy"
... }
... {
... "brand_name": "Huffy"
... }
... ]
```

If you want to get more specific with a read operation and find a desired subsection of the records, you can use the previously mentioned filtering criteria to choose what results should be returned. One of the most common ways of filtering the results is to search by value.

Example - db.production.brands.find({"brand_name" : "Honda"})

```
Command Prompt - mongo

}
> show dbs;
RetailBikeDB 0.000GB
admin 0.000GB
config 0.000GB
local 0.000GB
```

findOne()

In order to get one document that satisfies the search criteria, we can simply use the findOne() method on our chosen collection. If multiple documents satisfy the query, this method returns the first document according to the natural order which reflects the order of documents on the disk. If

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no documents satisfy the search criteria, the function returns null. The function takes the following form of syntax.

Syntax- db.{collection}.findOne({query}, {projection})

Example - db.sales.order_items.findOne({"quantity": 2})

a) Specify Equality Condition

- > db.production.products.find() to show all the documents
- > db.production.products.find({"list_price": 30000}) to show only documents which have

"list_price" as 30000

b) Specify Conditions Using Query Operators

- > db.sales.customers.find() to show all the documents
- > db.sales.customers.find({city: { $\sin ["Mumbai", "Pune"] } }) to show all the documents where "city" is either "Mumbai" or "Pune"$

```
> db.sales.customers.find({city: { $in: [ "Mumbai", "Pune" ] } })
{ "_id": ObjectId("62184c366080c37f46a3ad8c"), "customer_id": "Cus001", "first_name": "Jay", "last_name": "Mehta", "phone": 1234567890, "email": "jay@gmail.com", "street": "T.P Road", "city": "Mumbai", "state": "Maharashtra", "zip_code": 400072 }
{ "_id": ObjectId("62184c366080c37f46a3ad8d"), "customer_id": "Cus002", "first_name": "Ruhi", "last_name": "Singh", "phone": 7894561230, "email": "ruhi@yahoo.com", "street": "M.G Chauk", "city": "Mumbai", "state": "Maharashtra", "zip_code": 400072 }
{ "_id": ObjectId("62184c366080c37f46a3ad8f"), "customer_id": "Cus004", "first_name": "Mahi", "last_name": "Kaur", "phone": 4567890123, "email": "kaur.mahi@hotmail.com", "street": "J.V.L.R", "city": "Mumbai", "state": "Maharashtra", "zip_code": 400072 }
{ "_id": ObjectId("62184c366080c37f46a3ad90"), "customer_id": "Cus005", "first_name": "Aditya", "last_name": "Yadav", "phone": 9638527410, "email": "aditya@gmail.com", "street": "Koliwada", "city": "Pune", "state": "Maharashtra", "zip_code": 300075 }
```

c)Specify AND Conditions

- > db.sales.order_items.find() to show all the documents
- > db.sales.order_items.find({quantity: 2, list_price : { \$gt: 70000}}) Here we are trying to find how

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sales order item documents for which quantity is 2 and list price is greater than 70000

```
> db.sales.order_items.find()
{ "_id" : ObjectId("62184d186080c37f46a3ad91"), "order_id" : "ORD001", "product_id" : 1, "quantity" : 2, "list_price" : 50000 }
{ "_id" : ObjectId("62184d186080c37f46a3ad92"), "order_id" : "ORD002", "product_id" : 2, "quantity" : 3, "list_price" : 90000 }
{ "_id" : ObjectId("62184d186080c37f46a3ad93"), "order_id" : "ORD003", "product_id" : 3, "quantity" : 1, "list_price" : 30000 }
{ "_id" : ObjectId("62184d186080c37f46a3ad94"), "order_id" : "ORD004", "product_id" : 4, "quantity" : 8, "list_price" : 360000 }
{ "_id" : ObjectId("62184d186080c37f46a3ad95"), "order_id" : "ORD005", "product_id" : 5, "quantity" : 2, "list_price" : 1000000 }
> db.sales.order_items.find({quantity: 2, list_price : { $gt: 70000}})
{ "_id" : ObjectId("62184d186080c37f46a3ad95"), "order_id" : "ORD005", "product_id" : 5, "quantity" : 2, "list_price" : 1000000 }
```

d)Specify OR Conditions

- > db.production.products.find() to show all the documents
- > db.production.products.find($\{ \text{sor: } [\{ \text{product_name: "Honda Superfast" } \}, \{ \text{model_year : } \{ \text{slt: } 2003 \} \}] \})$ to show all the document which is either "product name" as "Honda Superfast" or "model year" is less than year 2003

```
## Model year Is less than year 2003

> db.production.products.tind()

{ "_id" : ObjectId("62184ab76080c37f46a3ad7b"), "product_id" : 1, "product_name" : "Honda Superfast", "brand_id" : 1, "category_id" : 1, "model_year" : 1994, "list_price" : 25000 }

{ "_id" : ObjectId("62184ab76080c37f46a3ad7c"), "product_id" : 2, "product_name" : "6KU Bikes", "brand_id" : 2, "category_id" : 4, "model_year" : 2000, "list_price" : 30000 }

{ "_id" : ObjectId("62184ab76080c37f46a3ad7d"), "product_id" : 3, "product_name" : "Bianchi", "brand_id" : 3, "category_id" : 2, "model_year" : 2002, "list_price" : 30000 }

{ "_id" : ObjectId("62184ab76080c37f46a3ad7e"), "product_id" : 4, "product_name" : "BMC Hybrid Bike", "brand_id" : 4, "category_id" : 3, "model_year" : 2009, "list_price" : 45000 }

{ "_id" : ObjectId("62184ab76080c37f46a3ad7f"), "product_id" : 5, "product_name" : "Huffy Women Bike", "brand_id" : 5, "category_id" : 7, "model_year" : 2019, "list_price" : 50000 }

> db.production.products.find({ $cr: [ { product_name: "Honda Superfast" }, { model_year : { $lt: ... 2003 } } })

{ "_id" : ObjectId("62184ab76080c37f46a3ad7b"), "product_id" : 1, "product_name" : "Honda Superfast", "brand_id" : 1, "category_id" : 1, "model_year" : 1994, "list_price" : 25000 }

{ "_id" : ObjectId("62184ab76080c37f46a3ad7b"), "product_id" : 2, "product_name" : "GKU Bikes", "brand_id" : 2, "category_id" : 4, "model_year" : 2000, "list_price" : 30000 }

{ "_id" : ObjectId("62184ab76080c37f46a3ad7c"), "product_id" : 2, "product_name" : "Bianchi", "brand_id" : 2, "category_id" : 4, "model_year" : 2000, "list_price" : 30000 }

{ "_id" : ObjectId("62184ab76080c37f46a3ad7c"), "product_id" : 3, "product_name" : "Bianchi", "brand_id" : 3, "category_id" : 2, "model_year" : 2002, "list_price" : 30000 }

{ "_id" : ObjectId("62184ab76080c37f46a3ad7d"), "product_id" : 3, "product_name" : "Bianchi", "brand_id" : 3, "category_id" : 2, "model_year" : 2002, "list_price" : 30000 }
```

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updateOne()

We can update a currently existing record and change a single document with an update operation. To do this, we use the updateOne() method on a chosen collection. To update a document, we provide the method with two arguments: an update filter and an update action.

The update filter defines which items we want to update, and the update action defines how to update those items. We first pass in the update filter. Then, we use the "\$set" key and provide the fields we want to update as a value. This method will update the first record that matches the provided filter.

Example -

- > db.sales.staffs.find() to show currect document in the system

updateMany() allows us to update multiple items by passing in a list of items, just as we did when inserting multiple items. This update operation uses the same syntax for updating a single document.

Example -

db.sales.orders.find() - to show current document in the system db.sales.orders.updateMany({shipped_date:44377}, {\$set: {shipped_date: "1-July-2021"}}) - with

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the help of this command we are updating "shipped_date" to "1-July-2021" where shipped_date is 44377

```
> db.sales.orders.find()
{ "_id" : ObjectId("62184d6a6080c37f46a3ad96"), "order_id" : "ORD001", "customer_id" : "Cus001", "order_status" : "Compl
eted", "order_date" : 43992, "shipped_date" : 43994, "store_id" : 1, "staff_id" : 1 }
{ "_id" : ObjectId("62184d6a6080c37f46a3ad97"), "order_id" : "ORD002", "customer_id" : "Cus002", "order_status" : "Compl
eted", "order_date" : 44221, "shipped_date" : 44227, "store_id" : 2, "staff_id" : 2 }
{ "_id" : ObjectId("62184d6a6080c37f46a3ad98"), "order_id" : "ORD003", "customer_id" : "Cus003", "order_status" : "Compl
eted", "order_date" : 44306, "shipped_date" : 44314, "store_id" : 2, "staff_id" : 2 }
{ "_id" : ObjectId("62184d6a6080c37f46a3ad99"), "order_id" : "ORD004", "customer_id" : "Cus004", "order_status" : "Pendi
ng", "order_date" : 44367, "shipped_date" : 44377, "store_id" : 3, "staff_id" : 3 }
{ "_id" : ObjectId("62184d6a6080c37f46a3ad9a"), "order_id" : "ORD005", "customer_id" : "Cus005", "order_status" : "Pendi
ng", "order_date" : 44367, "shipped_date" : 44377, "store_id" : 1, "staff_id" : 1 }
> >
> db.sales.orders.updateMany({shipped_date:44377}, {$set: {shipped_date: "1-July-2021"}})
{ "acknowledged" : true, "matchedCount" : 2, "modifiedCount" : 2 }
}
```

deleteOne()

deleteOne() is used to remove a document from a specified collection on the MongoDB server. A filter criteria is used to specify the item to delete. It deletes the first record that matches the provided filter.

Example -

> db.production.brands.find() - to show current documents in collection

> db.production.brands.deleteOne({brand_id:6}) - delete the document where "brand_id" is 6

deleteMany()

deleteMany() is a method used to delete multiple documents from a desired collection with a single delete operation. A list is passed into the method and the individual items are defined with filter criteria as in deleteOne().

Example -

> db.production.brands.find() - to show current documents in collection

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> db.production.brands.deleteMany($\{brand_id: \{\$gt: 5\}\}$) - delete documents for which brand id is greater than 5

```
db.production.brands.find()
{ "_id" : ObjectId("62184ecc6080c37f46a3ada1"), "brand_id" : 1, "brand_name" : "Honda" }
{ "_id" : ObjectId("62184ecc6080c37f46a3ada2"), "brand_id" : 2, "brand_name" : "6KU Bikes" }
{ "_id" : ObjectId("62184ecc6080c37f46a3ada3"), "brand_id" : 3, "brand_name" : "Bianchi" }
{ "_id" : ObjectId("62184ecc6080c37f46a3ada4"), "brand_id" : 4, "brand_name" : "BMC" }
{ "_id" : ObjectId("62184ecc6080c37f46a3ada5"), "brand_id" : 5, "brand_name" : "Huffy" }
}

> db.production.brands.deleteMany({brand_id: {$gt: 5}})
{ "acknowledged" : true, "deletedCount" : 0 }
```