### 1)First start the mongo Db using command **mongo**

#### show dbs;

```
Command Prompt - mongo
 elcome to the MongoDB shell.
 or interactive help, type "help".
or more comprehensive documentation, see
       https://docs.mongodb.com/
Questions? Try the MongoDB Developer Community Forums
https://community.mongodb.com
The server generated these startup warnings when booting:
        2022-03-20T14:58:21.502+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()
admin 0.000GB
config 0.000GB
local 0.000GB
```

## 2) use RetailBikeDb

```
Command Prompt - mongo
        https://community.mongodb.com
The server generated these startup warnings when booting:
        2022-03-20114:58:21.502+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
 use RetailBikeDb
switched to db RetailBikeDb
```

# 3) Creating and showing collections in MongoDB

```
c.c.
c.c.
c.c.
c.c.
db.createCollection("production.categories")
c ok. createCollection(production.brands")
c ok. createCollection(production.products")
c ok. createCollection(production.stocks")
c ok. createCollection(production.stocks")
c ok. createCollection("sales.stores")
c ok. createCollection("sales.staffs")
c ok. createCollection("sales.staffs")
c ok. createCollection("sales.customers")
c ok. createCollection("sales.customers")
c ok. createCollection("sales.orders")
c ok. createCollection("sales.orders")
c ok. createCollection("sales.order items")
c ok. createCollection("sal
```

4) We can show list of collection using "Show collections" commands in MongoDB

- 1. Create Operations
  - db.collection.insertOne()
  - db.collection.insertMany()

```
"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"
Command Prompt - mongo
                                                                                                                         \times
 db.production.categories.insertMany(
   "category_id": 1,
"category_name": "Road Bike"
   "category_id": 2,
"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"
```

# 2. production.products

```
db.production.products.insertMany(
"product_id": 1,
"product_name": "Honda Superfast",
"brand_id": 1,
"category_id": 1,
"model_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",
"brand_id": 4,
"category_id": 3,
"model_year": 2009,

"list_price": 45000
},
{
"product_id": 5,
"product_name": "Huffy Women Bike",
"brand_id": 5,
"category_id": 7,
"model_year": 2019,
"list_price": 50000
}
]
]
]
)
```

## 3. sales.customers

```
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",
"phone": 1245789630,
"email": "aria.josh@gmail.com",
"street": "JVM",
"city": "Gandhi Nagar",
"state": "Gujrat",
"zip_code": 401235
},
"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
},
"customer_id": "Cus005",
```

```
"first_name": "Aditya",
"last_name": "Yadav",
"phone": 9638527410,
"email": "aditya@gmail.com",
"street": "Koliwada",
"city": "Pune",
"state": "Maharashtra",
"zip_code": 300075
}
]
)
```

```
Ex Command Prompt - mongo

... "email": "kaur.mahi@hotmail.com",
... "street": "l.V.l.R",
... "zir." "Mumbai",
... "state": "Maharashtra",
... "zip_code": 480072
... "
... "first_name": "Vadav",
... "phone": "963857410,
... "aditya@gmail.com",
... "street": "Koliwada",
... "ative": "Maharashtra",
... "street": "Koliwada",
... "street": "Koliwada",
... "street": "Maharashtra",
... "zip_code": 300075
... "
... "
... "
... "
... "
... "
... "
... "
... "
... "
... "
... "
... "
... "
... "
... "
... "
... "
... "
... "
... "
... "
... "
... "
... "
... "
... "
... "
... "
... "
... "
... "
... "
... "
... "
... "
... "
... "
... "
... "
... "
... "
... "
... "
... "
... "
... "
... "
... "
... "
... "
... "
... "
... "
... "
... "
... "
... "
... "
... "
... "
... "
... "
... "
... "
... "
... "
... "
... "
... "
... "
... "
... "
... "
... "
... "
... "
... "
... "
... "
... "
... "
... "
... "
... "
... "
... "
... "
... "
... "
... "
... "
... "
... "
... "
... "
... "
... "
... "
... "
... "
... "
... "
... "
... "
... "
... "
... "
... "
... "
... "
... "
... "
... "
... "
... "
... "
... "
... "
... "
... "
... "
... "
... "
... "
... "
... "
... "
... "
... "
... "
... "
... "
... "
... "
... "
... "
... "
... "
... "
... "
... "
... "
... "
... "
... "
... "
... "
... "
... "
... "
... "
... "
... "
... "
... "
... "
... "
... "
... "
... "
... "
... "
... "
... "
... "
... "
... "
... "
... "
... "
... "
... "
... "
... "
... "
... "
... "
... "
... "
... "
... "
... "
... "
... "
... "
... "
... "
... "
... "
... "
... "
... "
... "
... "
... "
... "
... "
... "
.. "
... "
... "
... "
... "
... "
... "
... "
... "
... "
... "
... "
... "
... "
... "
... "
... "
... "
... "
... "
... "
... "
... "
... "
... "
... "
... "
... "
... "
... "
... "
... "
... "
... "
... "
... "
... "
... "
... "
... "
... "
... "
... "
... "
... "
... "
... "
... "
... "
... "
... "
... "
... "
... "
... "
... "
... "
... "
... "
... "
... "
... "
... "
... "
.. "
... "
... "
... "
... "
... "
... "
... "
... "
... "
... "
..
```

## 4.production.stocks

```
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,
    "quantity": 9
}
]
```

```
☐ Command Prompt-mongo — ☐ X

... },
... {
... {
... *store_id*: 1,
... *product_id*: 5,
... *quantity*: 100
... },
... *
... *product_id*: 2,
... *product_id*: 2,
... *quantity*: 4
... },
... {
... *store_id*: 3,
... *product_id*: 3,
... *product_id*: 3,
... *guantity*: 9
... }
... *
... *
... *
... *
... *
... *
... *
... *
... *
... *
... *
... *
... *
... *
... *
... *
... *
... *
... *
... *
... *
... *
... *
... *
... *
... *
... *
... *
... *
... *
... *
... *
... *
... *
... *
... *
... *
... *
... *
... *
... *
... *
... *
... *
... *
... *
... *
... *
... *
... *
... *
... *
... *
... *
... *
... *
... *
... *
... *
... *
... *
... *
... *
... *
... *
... *
... *
... *
... *
... *
... *
... *
... *
... *
... *
... *
... *
... *
... *
... *
... *
... *
... *
... *
... *
... *
... *
... *
... *
... *
... *
... *
... *
... *
... *
... *
... *
... *
... *
... *
... *
... *
... *
... *
... *
... *
... *
... *
... *
... *
... *
... *
... *
... *
... *
... *
... *
... *
... *
... *
... *
... *
... *
... *
... *
... *
... *
... *
... *
... *
... *
... *
... *
... *
... *
... *
... *
... *
... *
... *
... *
... *
... *
... *
... *
... *
... *
... *
... *
... *
... *
... *
... *
... *
... *
... *
... *
... *
... *
... *
... *
... *
... *
... *
... *
... *
... *
... *
... *
... *
... *
... *
... *
... *
... *
... *
... *
... *
... *
... *
... *
... *
... *
... *
... *
... *
... *
... *
... *
... *
... *
... *
... *
... *
... *
... *
... *
... *
... *
... *
... *
... *
... *
... *
... *
... *
... *
... *
... *
... *
... *
... *
... *
... *
... *
... *
... *
... *
... *
... *
... *
... *
... *
... *
... *
... *
... *
... *
... *
... *
... *
... *
... *
... *
... *
... *
... *
... *
... *
... *
... *
... *
... *
... *
... *
... *
... *
... *
... *
... *
... *
... *
... *
... *
... *
... *
... *
... *
... *
... *
... *
... *
... *
... *
... *
... *
... *
... *
... *
... *
... *
... *
... *
... *
... *
... *
... *
... *
... *
... *
... *
... *
... *
... *
... *
... *
... *
... *
... *
... *
... *
... *
... *
... *
.
```

```
5.sales.order_items 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
},
"order_id": "ORD004",
"product_id": 4,
"quantity": 8,
"list_price": 360000
"order_id": "ORD005",
"product_id": 5,
"quantity": 2,
"list_price": 100000
]
)
```

```
Est Command Prompt - mongo
... "product_id": 3,
... "quantity": 1,
... "list_price": J0000
... ",
... "order_id": "ORD004",
... "product_id": 4,
... "quantity": 8,
... "list_price": 360000
... ",
... "order_id": "ORD005",
... "product_id": 5,
... "quantity": 2,
... "list_price": 100000
... "]
...
... "acknowledged": true,
... "insertedIds": [
... ObjectId("62370eb6f8683e308b450286"),
... ObjectId("62370eb6f8683e308b450288"),
... ObjectId("62370eb6f8683e308b450288"),
... ObjectId("62370eb6f8683e308b450288"),
... ObjectId("62370eb6f8683e308b450288")
... ObjectI
```

```
6.sales.orders
       db.sales.orders.insertMany(
        "order_id": "ORD001",
        "customer_id": "Cus001",
       "order_status": "Completed",
        "order_date": 43992,
        "shipped_date": 43994,
        "store_id": 1,
        "staff_id": 1
        },
        "order_id": "ORD002",
       "customer_id": "Cus002",
        "order_status": "Completed",
        "order_date": 44221,
        "shipped_date": 44227,
       "store_id": 2,
        "staff_id": 2
        },
        "order_id": "ORD003",
        "customer_id": "Cus003",
```

```
"order_status": "Completed",
"order_date": 44306,
"shipped_date": 44314,
"store_id": 2,
"staff_id": 2
},
"order_id": "ORD004",
"customer_id": "Cus004",
"order_status": "Pending",
"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,
"staff_id": 1
}
)
```

```
7.sales.staffs
```

```
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
},
{
"staff_id": 2,
"first_name": "Sadiksha",
"last_name": "Singh",
"email": "sadiksha@gmail.com",
"phone": 888888888,
"active": "Yes",
"store_id": 2,
"manager_id": 1
},
"staff_id": 3,
"first_name": "Priya",
"last_name": "Nadar",
"email": "priya@gmail.com",
"phone": 777777777,
"active": "Yes",
"store_id": 3,
"manager_id": 1
}
]
)
```

### 8. sales.stores

```
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",

"city": "Gandhi Nagar",

"state": "Gujrat",

"zip_code": 401235

}

Command Prompt - mongo

"stone_name": "Yash bikes",

"phone": #89456,

"enail": "yash bikes@yahoo.com",

"street": "H.G",

"stote": "Whanashtra",

"zip_code": 300075

"stote": "Whanashtra",

"there.meme": "Josh@mail.com",

"street": "M.G",

"city": "Josh@mail.com",

"street": "M.G",

"city": "Gandhi Nagar",

"state": "Gujrat",

"city: "Gandhi Nagar",

"city: "Gandhi Nagar",

"city: "Gandhi Nagar",

"state": "Gujrat",

"city: "Gandhi Nagar",

"city: "Gandhi Nag
```

```
"brand_name": "BMC"
},
{
"brand_id": 5,
"brand_name": "Huffy"
}
]
```

## 1. Read Operations

MongoDB has two methods of reading documents from a collection:

- db.collection.find()
- db.collection.findOne()
- find()

### Example

Example: db.production.brands.find({"brand\_name" : "Honda"})

### findOne()

Syntax- db.{collection}.findOne({query}, {projection})
Example : db.sales.order\_items.findOne({"quantity": 2})

# **Query Documents**

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

```
Command Prompt - mongo
                                                                                                                                                                                                ×
     id" : ObjectId("623/10/cf8683e308b450299"), "brand_id" : 4, "brand_name" : "BMC" }
id" : ObjectId("623/10/cf8683e308b45029a"), "brand_id" : 5, "brand_name" : "Huffy" }
  db.production.brands.find({"brand_name" : "Honda"})
    _id" : ObjectId("6237107cf8683e308b450296"), "brand_id" : 1, "brand_name" : "Honda" )
  db.sales.order_items.findOne({"quantity": 2})
               _id" : ObjectId("62370eb6f8683e308b450286"),
            "order_id" : "ORD001",
"product_id" : 1,
            "quantity" : 2,
"list_price" : 50000
  db.sales.customers.find()
".id": ObjectId("62370daff8683e308b45027b"), "customer_id": "Cus001", "first_name": "Jay", "last_name": "Mehta", '
whone": 1234567890, "email": "jay@gmail.com", "street": "T.P Road", "city": "Mumbai", "state": "Maharashtra", "zip_
. "_id" : ObjectId("62370daff8683e308b45027c"), "customer_id" : "Cus002", "first_name" : "Ruhi", "last_name" : "Singh",
"phone" : 7894561230, "email" : "ruhi@yahoo.com", "street" : "M.G Chauk", "city" : "Mumbai", "state" : "Maharashtra", "
ip_code" : 400072 }
| " id" : ObjectId("62370da∮€9692a300b450274") | "
 , "_id" : ObjectId("62370daff8683e308b45027d"), "customer_id" : "Cus003", "first_name" : "Aria", "last_name" : "Josh", '
hone" : 1245789630, "email" : "aria.josh@gmail.com", "street" : "JVM", "city" : "Gandhi Nagar", "state" : "Gujrat", "z
 code" : 401235 }
  " id" : ObjectId("62370daff8683e308b45027e"), "customer id" : "Cus004", "first name" : "Mahi", "last name" : "Kaur", '
none" : 4567890123, "email" : "kaur.mahi@hotmail.com", "street" : "J.V.L.R", "city" : "Mumbai", "state" : "Maharashtra
  "zip code" : 400072 }
  "_id" : ObjectId("62370daff8683e308b45027f"), "customer_id" : "Cus005", "first_name" : "Aditya", "last_name" : "Yadav
"phone" : 9638527410, "email" : "aditya@gmail.com", "street" : "Koliwada", "city" : "Pune", "state" : "Maharashtra",
 ip_code" : 300075 }
```

```
×
Command Prompt - mongo
          "quantity" : 2,
"list_price" : 50000
 db.sales.customers.find()
  "_id" : ObjectId("62370daff8683e308b45027b"), "customer_id" : "Cus001", "first_name" : "lay", "last_name" : "Mehta", "
one" : 1234567890, "email" : "jay@gmail.com", "street" : "T.P Road", "city" : "Mumbai", "state" : "Maharashtra", "zip_
ode" : 400072 }
.ode : 400072 }
( "_id" : ObjectId("62370daff8683e308b45027c"), "customer_id" : "Cus002", "first_name" : "Ruhi", "last_name" : "Singh'
|phone" : 7894561230, "email" : "ruhi@yahoo.com", "street" : "M.G Chauk", "city" : "Mumbai", "state" : "Maharashtra",
ip_code" : 400072 }
          " : 400072 }
: ObjectId("62370daff8683e308b45027d"), "customer_id" : "Cus003", "first_name" : "Aria", "last_name" : "Josh", "
: 1245789630, "email" : "aria.josh@gmail.com", "street" : "JVM", "city" : "Gandhi Nagar", "state" : "Gujrat", "zi
         : 1245789630,
 code" : 401235 }
  "_id" : ObjectId("62370daff8683e308b45027e"), "customer_id" : "Cus004", "first_name" : "Mahi", "last_name" : "Kaur", '
one" : 4567890123, "email" : "kaur.mahi@hotmail.com", "street" : "J.V.L.R", "city" : "Mumbai", "state" : "Maharashtra
  "zip_code" : 400072 }
 "_id" : ObjectId("62370daff8683e308b45027f"), "customer_id" : "Cus005", "first_name" : "Aditya", "last_name" : "Yadav"
"phone" : 9638527410, "email" : "aditya@gmail.com", "street" : "Koliwada", "city" : "Pune", "state" : "Maharashtra", "
ip_code" : 300075 }
 db.production.products.find({"list_price": 30000})
```

### **Specify Conditions Using Query Operators**

b.

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

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

```
Command Prompt - mongo
                                                                                                                                                                                  ×
         " : ObjectId("62370daff8683e308b45027b"), "customer_id" : "Cus001", "first_name" : "Jay", "last_name" : "Mehta", "
: 1234567890, "email" : "jay@gmail.com", "street" : "T.P Road", "city" : "Mumbai", "state" : "Maharashtra", "zip_
       : 400072 }
 me" : 466072" "id" : ObjectId("62370daff8683e308b45027c"), "customer_id" : "Cus002", "first_name" : "Ruhi", "last_name" : "Singh",
phone" : 7894551230, "email" : "ruhi@yahoo.com", "street" : "M.G Chauk", "city" : "Mumbai", "state" : "Maharashtra", ".
p_code" : 400072 }
"_id" : ObjectId("62370daff8683e308b45027e"), "customer_id" : "Cus004", "first_name" : "Mahi", "last_name" : "Kaur", '
pone" : 4567890123, "email" : "kaur.mahi@hotmail.com", "street" : "J.V.L.R", "city" : "Mumbai", "state" : "Maharashtra
  "zip code" : 400072 }
 "id": ObjectId("62370daff8683e308b45027f"), "customer_id": "Cus005", "first_name": "Aditya", "last_name": "Yadav
"phone": 9638527410, "email": "aditya@gmail.com", "street": "Koliwada", "city": "Pune", "state": "Maharashtra",
 p_code" : 300075 }
 "_id" : ObjectId("62370eb6f8683e308b450286"), "order_id" : "ORD001", "product_id" : 1, "quantity" : 2, "list_price" :
 000 }
"_id" : ObjectId("62370eb6f8683e308b450287"), "order_id" : "ORD002", "product_id" : 2, "quantity" : 3, "list_price" :
 __id" : ObjectId("62370eb6f8683e308b450288"), "order_id" : "ORD003", "product_id" : 3, "quantity" : 1, "list_price"
  000 }
"_id" : ObjectId("62370eb6f8683e308b450289"), "order_id" : "ORD004", "product_id" : 4, "quantity" : 8, "list_price"
  "_id": ObjectId("62370eb6f8683e308b45028a"), "order_id" : "ORD005", "product_id" : 5, "quantity" : 2, "list_price" :
 db.sales.order_items.find({quantity: 2, list_price : { $gt: 70000}})
"_id" : ObjectId("62370eb6f8683e308b45028a"), "order_id" : "ORD005", "product_id" : 5, "quantity" : 2, "list_price" :
 99999 }
```

# d. Specify OR Conditions

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

```
Command Prompt - MONGO
                                                                                                                                            ×
  db.production.products.find()
( "_id" : ObjectId("6222df37b5e511acae1d7898"), "product_id" : 1, "product_name"
"Honda Superfast", "brand_id" : 1, "category_id" : 1, "model_year" : 1994, "list_
"_id" : ObjectId("6222df37b5e511acae1d7899"), "product_id" : 2, "product_name" :
'6KU Bikes", "brand_id" : 2, "category_id" : 4, "model_year" : 2000, "list_price"
{ "_id" : ObjectId("6222df37b5e511acae1d789a"), "product_id" : 3, "product_name" :
"Bianchi", "brand_id" : 3, "category_id" : 2, "model_year" : 2002, "list_price" :
( "_id" : ObjectId("6222df37b5e511acae1d789b"), "product_id" : 4, "product_name" :
"BMC Hybrid Bike", "brand_id" : 4, "category_id" : 3, "model_year" : 2009, "list_p
( "_id" : ObjectId("6222df37b5e511acae1d789c"), "product_id" : 5, "product_name" :
"Huffy Women Bike", "brand_id" : 5, "category_id" : 7, "model_year" : 2019, "list_p
 db.production.products.find({ $or: [ { product_name: "Honda Superfast" }, { model
year : { $1t:
_year . { }.l.
... 2003 } } ] })
{ "_id" : ObjectId("6222df37b5e511acae1d7898"), "product_id" : 1, "product_name" :
"Honda Superfast", "brand_id" : 1, "category_id" : 1, "model_year" : 1994, "list_p
 "_id" : ObjectId("6222df37b5e511acae1d7899"), "product_id" : 2, "product_name"
6KU Bikes", "brand_id" : 2, "category_id" : 4, "model_year" : 2000, "list_price'
( "_id" : ObjectId("6222df37b5e511acae1d789a"), "product_id" : 3, "product_name" :
"Bianchi", "brand_id" : 3, "category_id" : 2, "model_year" : 2002, "list_price" : 3
9000 }
```

### 3. Update Operations

For MongoDB CRUD, there are three different methods of updating documents:

- db.collection.updateOne()
- db.collection.updateMany()
- db.collection.replaceOne()

## updateOne()

db.sales.staffs.find() - to show currect document in the system
db.sales.staffs.updateOne({first\_name: "Pushpa"}, {\$set:{phone: 999999988}}) update mobile
number from 9999999999 to 999999988 for document name where name is " first\_name
" in
collection

```
GE Command Prompt - MONGO
                                                                                                                            ×
  db.production.products.find()
{ "_id" : ObjectId("6222df37b5e511acae1d7898"), "product_id" : 1, "product_name"
"Honda Superfast", "brand_id" : 1, "category_id" : 1, "model_year" : 1994, "list_
ice" : 25000 }
 [ "_id" : ObjectId("6222df37b5e511acae1d7899"), "product_id" : 2, "product_name" :
'6KU Bikes", "brand_id" : 2, "category_id" : 4, "model_year" : 2000, "list_price"
            : ObjectId("6222df37b5e511acae1d789a"), "product_id" : 3, "product_name" :
i", "brand id" : 3, "category_id" : 2, "model_year" : 2002, "list_price" :
 Bianchi", "brand_id" : 3, "category_id" : 2,
 [ "_id" : ObjectId("6222df37b5e511acae1d789b"), "product_id" : 4, "product_name" :
'BMC Hybrid Bike", "brand_id" : 4, "category_id" : 3, "model_year" : 2009, "list_p
       : 45000 }
   "_id" : ObjectId("6222df37b5e511acae1d789c"), "product_id" : 5, "product_name" :
"Huffy Women Bike", "brand_id" : 5, "category_id" : 7, "model year" : 2019, "list p
rice"´: 50000 }
  db.production.products.find({ $or: [ { product_name: "Honda Superfast" }, { model
 _year : { $lt:
... 2003 } } ] })
[ "_id" : ObjectId("6222df37b5e511acae1d7898"), "product_id" : 1, "product_name" :
"Honda Superfast", "brand_id" : 1, "category_id" : 1, "model_year" : 1994,
      ': 25000 }
 ( "_id" : ObjectId("6222df37b5e511acae1d7899"), "product_id" : 2, "product_name" :
"6KU Bikes", "brand_id" : 2, "category_id" : 4, "model_year" : 2000, "list_price"
 ( "_id" : ObjectId("6222df37b5e511acae1d789a"), "product_id" : 3, "product_name" :
"Bianchi", "brand_id" : 3, "category_id" : 2, "model_year" : 2002, "list_price" : 3
0000 }
  db.sales.staffs.find()
, active : Yes , store_id : 2, manager_id : 1 }
{ "_id" : ObjectId("6222e161b5e511acae1d78b4"), "staff_id" : 3, "first_name" : "Pri
ya", "last_name" : "Nadar", "email" : "priya@gmail.com", "phone" : 7777777777, "act
ive" : "Yes", "store_id" : 3, "manager_id" : 1 }
> db.sales.staffs.updateOne({first_name: "Pushpa"}, {$set:{phone: 999999988}})
{ "acknowledged" : true, "matchedCount" : 1, "modifiedCount" : 1 }
```

# 1. updateMany()

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

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

```
Command Prompt - MONGO
                                                                                       ×
  'acknowledged" : true,
                            "matchedCount" : 1, "modifiedCount" : 1 }
  db.sales.orders.find()
   _id" : ObjectId("6222e0f7b5e511acae1d78ad"), "order_id" : "ORD001", "customer_id
" : "Cus001", "order_status" : "Completed", "order_date" : 43992, "shipped_date"
43994, "store_id" : 1, "staff_id" : 1 }
  "id" : ObjectId("6222e0f7b5e511acae1d78ae"), "order_id" : "ORD002", "customer_id
' : "Cus004", "order_status" : "Pending", "order_date" : 44367, "shipped_date" : 44
377, "store_id" : 3, "staff_id" : 3 }
[ "_id" : ObjectId("6222e0f7b5e511acae1d78b1"), "order_id" : "ORD005", "customer_id
": "Cus005", "order_status": "Pending", "order_date": 44367, "shipped_date": 44
377, "store_id": 1, "staff_id": 1 }
 db.sales.orders.updateMany({shipped_date:44377}, {$set: {shipped_date: "1-July-20
1"}})
"acknowledged" : true, "matchedCount" : 2, "modifiedCount" : 2 }
```

## 3.replaceOne()

## 4. Delete Operations

MongoDB has two different methods of deleting records from a collection:

- db.collection.delete004Fne()
- db.collection.deleteMany()
  - 1. deleteOne()

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

```
Command Prompt - MONGO
                                                                                                                                                                                                                                                                   \times
                                                                                "matchedCount" : 1, "modifiedCount" : 1 )
    db.sales.orders.find()
         _id" : ObjectId("6222e0f7b5e511acae1d78ad"), "order_id" : "ORD001", "customer_id
 : "Cus001", "order_status" : "Completed", "order_date" : 43992, "shipped_date" :
3994, "store_id" : 1, "staff_id" : 1 }
"_id" : ObjectId("6222e0f7b5e511acae1d78ae"), "order_id" : "ORD002", "customer_id
 : "Cus002", "order_status" : "Completed", "order_date" : 44221, "shipped_date" : 4227, "store_id" : 2, "staff_id" : 2 }
"_id" : ObjectId("6222e0f7b5e511acae1d78af"), "order_id" : "ORD003", "customer_id"
           "Cus003", "order_status" : "Completed", "order_date" : 44306, "shipped date"
: Cuseos, order_status : Completed, order_date . 44366, shipped_date . 44314, "store_id" : 2, "staff_id" : 2 } ( "_id" : ObjectId("6222e0f7b5e511acae1d78b0"), "order_id" : "ORD004", "customer_id" : "Cuseo04", "order_status" : "Pending", "order_date" : 44367, "shipped_date" : 44377, "store_id" : 3, "staff_id" : 3 } ( "_id" : ObjectId("6222e0f7b5e511acae1d78b1"), "order_id" : "ORD005", "customer_id" : "ORD0
" : "Cus005", "order_status" : "Pending", "order_date" : 44367, "shipped_date" : 44
377, "store_id" : 1, "staff_id" : 1 }
> db.sales.orders.updateMany({shipped_date:44377}, {$set: {shipped_date: "1-July-20
   "acknowledged" : true, "matchedCount" : 2, "modifiedCount" : 2 } db.production.brands.find()
          id" : ObjectId("6222e1dcb5e511acae1d78b8"), "brand_id" : 1, "brand_name" : "Hon
          id" : ObjectId("6222e1dcb5e511acae1d78b9"), "brand_id" : 2, "brand_name" : "6KU
 Bikes"
         id" : ObjectId("6222e1dcb5e511acae1d78ba"), "brand_id" : 3, "brand_name" : "Bia
     hi" }
"_id" : ObjectId("6222e1dcb5e511acae1d78bb"), "brand_id" : 4, "brand_name" : "BMC
          id" : ObjectId("6222e1dcb5e511acae1d78bc"), "brand_id" : 5, "brand_name" : "Huf
   db.production.brands.deleteOne({brand_id:6})
"acknowledged" : true, "deletedCount" : 0 }
```

### 2.deleteMany()

Example –

db.production.brands.find() - to show current documents in collection
db.production.brands.deleteMany({brand\_id: {\$gt: 5}}) - delete
documents for which brand id is
greater than 5

```
Command Prompt - MONGO
                                                                                                     ×
( "acknowledged" : true, "deletedCount" : 0 }
( "acknowledged" : true, "deletedCount" : 0 }
> db.production.brands.find()
( "_id" : ObjectId("6222e1dcb5e511acae1d78b8"), "brand_id" : 1, "brand_name" : "Hon da" }
  db.production.brands.deleteOne({brand_id:6})
  3" }
"_id" : ObjectId("6222e1dcb5e511acae1d78b9"), "brand_id" : 2, "brand_name" : "6KU
Bikes"
  "_id" : ObjectId("6222e1dcb5e511acae1d78ba"), "brand_id" : 3, "brand_name" : "Bia
c __ad . Objectio( 0222e1dcb5e511acae1d78ba"), "brand_id" : 3, "brand_name" : "Bia
nchi" }
{ "_id" : ObjectId("6222e1dcb5e511acae1d78bb"), "brand_id" : 4, "brand_name" : "BMC
" }
/" }
db.production.brands.deleteMany({brand_id: {$gt: 5}})
"acknowledged" : true, "deletedCount" : 0 }
```