Mongosh

```
PS C:\Users\SOMU> mongosh
Current Mongosh Log ID: 6647a28fc7afd57c9acdcdf5
Connecting to: mongodb://127.0.0.1:27017/?directConnection=true&serverSelectionTimeoutMS=2000&appName=mongosh+2.2.6
Using MongoDB: 7.0.9
Using Mongosh: 2.2.6

For mongosh info see: https://docs.mongodb.com/mongodb-shell/
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The server generated these startup warnings when booting
2024-05-17T18:41:13.630+05:30: Access control is not enabled for the database. Read and write access to data and configuration is unrestricted
------
```

Show dbs

Use employees

```
test> use employees switched to db employees
```

CREATE

Insert one data

```
employees> db.invetory.insertOne( {
    ... item: "canvas", qty: 100, tags: ["cotton"], size: { h: 28, ww: 35.5, uom: "cm" } }
    ... )
    {
        acknowledged: true,
        insertedId: ObjectId('6647a569c7afd57c9acdcdf6')
}
employees> |
```

Insert many data

```
employees> db.inventory.insertMany([
... { item: "journal", qty: 25, tags: ["blank", "red"], size: { h: 14, w: 21, uom: "cm" } },
... { item: "mat", qty: 85, tags: ["gray"], size: { h: 27.9, w: 35.5, uom: "cm" } },
... { item: "mousepad", qty: 25, tags: ["gel", "blue"], size: { h: 19, w: 22.85, uom: "cm" } }
... ])
{
    acknowledged: true,
    insertedIds: {
        '0': ObjectId('6647a6a34aa5766faecdcdf6'),
        '1': ObjectId('6647a6a34aa5766faecdcdf7'),
        '2': ObjectId('6647a6a34aa5766faecdcdf8')
    }
}
employees> |
```

READ

Find All

```
employees> db.inventory.find( )
{
    _id: ObjectId('6647aa2f4aa5766faecdcdfa'),
    item: 'journal',
    qty: 25,
    size: { h: 14, w: 21, uom: 'cm' },
    status: 'A'
 4
    _id: ObjectId('6647aa2f4aa5766faecdcdfb'),
    item: 'notebook',
    qty: 50,
    size: { h: 8.5, w: 11, uom: 'in' },
    status: 'A'
  },
{
    _id: ObjectId('6647aa2f4aa5766faecdcdfc'),
    item: 'paper',
    qty: 100,
    size: { h: 8.5, w: 11, uom: 'in' },
    status: 'D'
  ۲,
    _id: ObjectId('6647aa2f4aa5766faecdcdfd'),
    item: 'planner',
    qty: 75,
    size: { h: 22.85, w: 30, uom: 'cm' },
    status: 'D'
  ۲,
بر
    _id: ObjectId('6647aa2f4aa5766faecdcdfe'),
    item: 'postcard',
    qty: 45,
    size: { h: 10, w: 15.25, uom: 'cm' },
    status: 'A'
]
employees>
```

Specify Equality Condition

```
employees> db.inventory.find( { status: "D" } )
Γ
  {
   _id: ObjectId('6647aa2f4aa5766faecdcdfc'),
    item: 'paper',
    qty: 100,
    size: { h: 8.5, w: 11, uom: 'in' },
    status: 'D'
    _id: ObjectId('6647aa2f4aa5766faecdcdfd'),
    item: 'planner',
    qty: 75,
    size: { h: 22.85, w: 30, uom: 'cm' },
    status: 'D'
 }
]
employees>
```

Limit

```
employees> db.inventory.find().limit(1)
[
    _id: ObjectId('664993e7f2d69c3861cdcdf6'),
    item: 'journal',
    qty: 25,
    tags: [ 'blank', 'red' ],
    size: { h: 14, w: 21, uom: 'cm' }
}
]
```

Skip

Specify Conditions Using Query Operators

```
employees> db.inventory.find( { status: { $in: [ "A", "D" ] } } )
_id: ObjectId('6647aa2f4aa5766faecdcdfa'),
   item: 'journal',
qty: 25,
   size: { h: 14, w: 21, uom: 'cm' },
    status: 'A'
 ۲۰ بر
۱
    _id: ObjectId('6647aa2f4aa5766faecdcdfb'),
   item: 'notebook',
   qty: 50,
   size: { h: 8.5, w: 11, uom: 'in' },
    status: 'A'
  },
  {
    _id: ObjectId('6647aa2f4aa5766faecdcdfc'),
   item: 'paper',
   qty: 100,
   size: { h: 8.5, w: 11, uom: 'in' },
    status: 'D'
 },
    _id: ObjectId('6647aa2f4aa5766faecdcdfd'),
   item: 'planner',
   qty: 75,
   size: { h: 22.85, w: 30, uom: 'cm' },
    status: 'D'
  },
    _id: ObjectId('6647aa2f4aa5766faecdcdfe'),
   item: 'postcard',
   qty: 45,
    size: { h: 10, w: 15.25, uom: 'cm' },
    status: 'A'
  }
]
employees>
```

Specify AND Conditions

Specify OR Conditions

Specify AND as well as OR Conditions

```
employees> db.inventory.find( {
       status: "A",
         $or: [ { qty: { $lt: 30 } }, { item: /^p/ } ]
...})
  {
    _id: ObjectId('6647aa2f4aa5766faecdcdfa'),
    item: 'journal',
    qty: 25,
    size: { h: 14, w: 21, uom: 'cm' },
    status: 'A'
 },
{
    _id: ObjectId('6647aa2f4aa5766faecdcdfe'),
    item: 'postcard',
    qty: 45,
    size: { h: 10, w: 15.25, uom: 'cm' },
    status: 'A'
  }
]
employees>
```

UPDATE

Update a Single Document

Update Multiple Documents

Replace a Document

```
employees> db.inventory.replaceOne(
... { item: "paper" },
... { item: "paper", instock: [ { warehouse: "A", qty: 60 }, { warehouse: "B", qty: 40 } ] }
... )
{
   acknowledged: true,
   insertedId: null,
   matchedCount: 1,
   modifiedCount: 1,
   upsertedCount: 0
}
```

DELETE

Delete All Documents

```
employees> db.inventory.deleteMany({})
{ acknowledged: true, deletedCount: 10 }
employees>
```

Delete All Documents that Match a Condition

```
employees> db.inventory.deleteMany({status: "A"})
{ acknowledged: true, deletedCount: 2 }
employees>
```

Delete Only One Document that Matches a Condition

```
employees> db.inventory.deleteOne( { status: "D" } )
{ acknowledged: true, deletedCount: 1 }
employees> |
```

Remove

```
employees> db.inventory.remove({qty: {$gt: 65}})
DeprecationWarning: Collection.remove() is deprecated. Use deleteOne, deleteMany, findOneAndDelete, or bulkWrite.
{ acknowledged: true, deletedCount: 1 }
employees> |
```

Other Functions

Sort Increasing Order

```
employees> db.inventory.find().sort({qty: 1})
  {
    _id: ObjectId('664993e7f2d69c3861cdcdf6'),
    item: 'journal',
    qty: 25,
    tags: [ 'blank', 'red' ],
    size: { h: 14, w: 21, uom: 'cm' }
  ۍ <del>ر</del>
    _id: ObjectId('664993e7f2d69c3861cdcdf8'),
    item: 'mousepad',
    qty: 25,
    tags: [ 'gel', 'blue' ],
    size: { h: 19, w: 22.85, uom: 'cm' }
    _id: ObjectId('664993e7f2d69c3861cdcdf7'),
    item: 'mat',
    qty: 85,
    tags: [ 'gray' ],
    size: { h: 27.9, w: 35.5, uom: 'cm' }
employees>
```

Sort Decreasing order

```
employees> db.inventory.find().sort({qty: -1})
{
    _id: ObjectId('664993e7f2d69c3861cdcdf7'),
    item: 'mat',
    qty: 85,
    tags: [ 'gray' ],
    size: { h: 27.9, w: 35.5, uom: 'cm' }
 ۲.
د
    _id: ObjectId('664993e7f2d69c3861cdcdf6'),
    item: 'journal',
    qty: 25,
    tags: [ 'blank', 'red' ],
    size: { h: 14, w: 21, uom: 'cm' }
  },
{
    _id: ObjectId('664993e7f2d69c3861cdcdf8'),
    item: 'mousepad',
    qty: 25,
    tags: [ 'gel', 'blue' ],
    size: { h: 19, w: 22.85, uom: 'cm' }
 }
employees>
```