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Assignment 3 - MONGODB

Update one and update many:

```
Microsoft Windows [Version 10.0.26100.4652]
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C:\Users\masih>mongosh
Current Mongosh Log ID: 687f11b83023e81cc9eec4a8
Connecting to:          mongodb://127.0.0.1:27017/?directConnection=true&serverSelectionTimeoutMS=2000&appName=mongosh+2.5.6
Using MongoDB:          8.0.11
Using Mongosh:          2.5.6

For mongosh info see: https://www.mongodb.com/docs/mongodb-shell/

------
   The server generated these startup warnings when booting
   2025-07-21T12:53:07.682+05:30: Access control is not enabled for the database. Read and write access to data and configuration is unrestricted
------

test> show dbs
admin   40.00 KiB
amitdb   8.00 KiB
config  48.00 KiB
jisl    64.00 KiB
local   40.00 KiB
test> db.inventory.updateOne(  { item: "canvas" }, { $set: { "size.uom": "cm", status: "P" },$currentDate: { lastModified: true } } )
{
  acknowledged: true,
  insertedId: null,
  matchedCount: 0,
  modifiedCount: 0,
  upsertedCount: 0
}
test> db.inventory.updateMany( { qty: { $lt: 50 } }, { $set: { status: "Low Stock" }, $currentDate: { lastModified: true } } )
{
  acknowledged: true,
  insertedId: null,
  matchedCount: 0,
  modifiedCount: 0,
  upsertedCount: 0
}
test>     db.collection.updateOne(
...
...       { field1: "value1" },
```

Delete one and Delete many

```
}
test>     db.collection.updateOne(
...
...       { field1: "value1" },
...
...       { $set: { field2: "new value" } } // Updates field2 to "new value"
...
...     )
...
...     db.collection.updateOne(
...
...       { field1: "value1" },
...
...       { $set: { field2: "new value" } } // Updates field2 to "new value"
...
...     )
...
... db.games.updateOne({ score: 80 },{$set: { score: 90 } })
```

```
{
  acknowledged: true,
  insertedId: null,
  matchedCount: 0,
  modifiedCount: 0,
  upsertedCount: 0
}
test> db.inventory.deleteOne({ status: "D" })
{ acknowledged: true, deletedCount: 0 }
test> db.inventory.deleteMany({ status: "D" })
{ acknowledged: true, deletedCount: 0 }
test>
```

Display All Documents in inventory

```
jisl> db.inventory.find().pretty()
[
  {
    _id: ObjectId('687e0926bd5b301f2feec4a9'),
    item: 'canvas',
    qty: 100,
    tags: [ 'cotton' ],
    size: { h: 28, w: 35.5, uom: 'cm' },
    lastModified: ISODate('2025-07-21T10:55:54.307Z'),
    status: 'P'
  },
  {
    _id: ObjectId('687e0935bd5b301f2feec4aa'),
    item: 'journal',
    qty: 25,
    tags: [ 'blank', 'red' ],
    size: { h: 14, w: 21, uom: 'cm' },
    lastModified: ISODate('2025-07-21T10:56:20.130Z'),
    status: 'Low Stock'
  },
  {
    _id: ObjectId('687e0935bd5b301f2feec4ab'),
    item: 'mat',
    qty: 85,
    tags: [ 'gray' ],
    size: { h: 27.9, w: 35.5, uom: 'cm' }
  },
  {
    _id: ObjectId('687e0935bd5b301f2feec4ac'),
    item: 'mousepad',
    qty: 30,
    tags: [ 'black', 'rubber' ],
    size: { h: 20, w: 25, uom: 'cm' }
  },
  {
    _id: ObjectId('687f597290f34dd4f8eec4a9'),
    item: 'canvas',
    qty: 100,
    tags: [ 'cotton' ],
    size: { h: 28, w: 35.5, uom: 'cm' }
  },
  {
    _id: ObjectId('687f597290f34dd4f8eec4aa'),
    item: 'journal',
```

```
    qty: 25,
    tags: [ 'blank', 'red' ],
    size: { h: 14, w: 21, uom: 'cm' }
  },
  {
    _id: ObjectId('687f597290f34dd4f8eec4ab'),
    item: 'mat',
    qty: 85,
    tags: [ 'gray' ],
    size: { h: 27.9, w: 35.5, uom: 'cm' }
  },
  {
    _id: ObjectId('687f597290f34dd4f8eec4ac'),
    item: 'mousepad',
    qty: 25,
    tags: [ 'gel', 'blue' ],
    size: { h: 19, w: 22.85, uom: 'cm' }
  }
]
```

PROJECTIONS

1. Show Only the item Field

```
jisl> db.inventory.find({}, { item: 1 }).pretty()
[
  { _id: ObjectId('687e0926bd5b301f2feec4a9'), item: 'canvas' },
  { _id: ObjectId('687e0935bd5b301f2feec4aa'), item: 'journal' },
  { _id: ObjectId('687e0935bd5b301f2feec4ab'), item: 'mat' },
  { _id: ObjectId('687e0935bd5b301f2feec4ac'), item: 'mousepad' },
  { _id: ObjectId('687f597290f34dd4f8eec4a9'), item: 'canvas' },
  { _id: ObjectId('687f597290f34dd4f8eec4aa'), item: 'journal' },
  { _id: ObjectId('687f597290f34dd4f8eec4ab'), item: 'mat' },
  { _id: ObjectId('687f597290f34dd4f8eec4ac'), item: 'mousepad' }
]
```

2. Show Only the qty Field

```
jisl> db.inventory.find({}, { qty: 1 }).pretty()
[
  { _id: ObjectId('687e0926bd5b301f2feec4a9'), qty: 100 },
  { _id: ObjectId('687e0935bd5b301f2feec4aa'), qty: 25 },
  { _id: ObjectId('687e0935bd5b301f2feec4ab'), qty: 85 },
  { _id: ObjectId('687e0935bd5b301f2feec4ac'), qty: 30 },
  { _id: ObjectId('687f597290f34dd4f8eec4a9'), qty: 100 },
  { _id: ObjectId('687f597290f34dd4f8eec4aa'), qty: 25 },
  { _id: ObjectId('687f597290f34dd4f8eec4ab'), qty: 85 },
  { _id: ObjectId('687f597290f34dd4f8eec4ac'), qty: 25 }
]
```

3. Filter Based on a Field Value (qty = 2)

```
jisl> db.inventory.find({ qty: 2 }).pretty()

jisl>
```

Displaying Specific Fields in inventory Without the _id Field

1. Display Only item Names (hide _id)

```
jisl> db.inventory.find({}, { item: 1, _id: 0 }).pretty()
[
  { item: 'canvas' },
  { item: 'journal' },
  { item: 'mat' },
  { item: 'mousepad' },
  { item: 'canvas' },
  { item: 'journal' },
  { item: 'mat' },
  { item: 'mousepad' }
]
```

2. Display Only qty Values (hide _id)

```
jisl> db.inventory.find({}, { qty: 1, _id: 0 }).pretty()
[
  { qty: 100 },
  { qty: 25 },
  { qty: 85 },
  { qty: 30 },
  { qty: 100 },
  { qty: 25 },
  { qty: 85 },
  { qty: 25 }
]
```

3. Display item and qty (hide _id)

```
jisl> db.inventory.find({}, { item: 1, qty: 1, _id: 0 }).pretty()
[
  { item: 'canvas', qty: 100 },
  { item: 'journal', qty: 25 },
  { item: 'mat', qty: 85 },
  { item: 'mousepad', qty: 30 },
  { item: 'canvas', qty: 100 },
  { item: 'journal', qty: 25 },
  { item: 'mat', qty: 85 },
  { item: 'mousepad', qty: 25 }
]
```

4. Display Only tags Field (hide _id)

```
jisl> db.inventory.find({}, { tags: 1, _id: 0 }).pretty()
[
  { tags: [ 'cotton' ] },
  { tags: [ 'blank', 'red' ] },
  { tags: [ 'gray' ] },
  { tags: [ 'black', 'rubber' ] },
  { tags: [ 'cotton' ] },
  { tags: [ 'blank', 'red' ] },
  { tags: [ 'gray' ] },
  { tags: [ 'gel', 'blue' ] }
]
```

5. Display Nested Field size.uom Only

```
jisl> db.inventory.find({}, { "size.uom": 1, _id: 0 }).pretty()
[
  { size: { uom: 'cm' } },
  { size: { uom: 'cm' } },
  { size: { uom: 'cm' } },
  { size: { uom: 'cm' } },
  { size: { uom: 'cm' } },
  { size: { uom: 'cm' } },
  { size: { uom: 'cm' } },
  { size: { uom: 'cm' } }
]
```