

WEEK1: MONGO Database (No SQL)

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1. Create Operations:

```
> db.inventory.insertOne({item:"canvas",qty:100,tags:["cotton"],size:{h:28,w:35.5,uom:"cm"}})
{
  "acknowledged" : true,
  "insertedId" : ObjectId("61285efc233a346e57fae9a8")
}
```

```
> db.inventory.insertMany([{item:"journal",qty:25,tags:["blank","red"],size:{h:30,w:20,uom:"cm"}},{item:"abc",qty:50,tags:["wow"],size:{h:40,w:70,uom:"cm"}}])
{
  "acknowledged" : true,
  "insertedIds" : [
    ObjectId("612860cb233a346e57fae9a9"),
    ObjectId("612860cb233a346e57fae9aa")
  ]
}
```

2. Read Operations:

```
> db.inventory.find()
{ "_id" : ObjectId("61285efc233a346e57fae9a8"), "item" : "canvas", "qty" : 100, "tags" : [ "cotton" ], "size" : { "h" : 28, "w" : 35.5, "uom" : "cm" } }
{ "_id" : ObjectId("612860cb233a346e57fae9a9"), "item" : "journal", "qty" : 25, "tags" : [ "blank", "red" ], "size" : { "h" : 30, "w" : 20, "uom" : "cm" } }
{ "_id" : ObjectId("612860cb233a346e57fae9aa"), "item" : "abc", "qty" : 50, "tags" : [ "wow" ], "size" : { "h" : 40, "w" : 70, "uom" : "cm" } }
```

```
> db.inventory.find({qty:{$gt:40}})
{ "_id" : ObjectId("61285efc233a346e57fae9a8"), "item" : "canvas", "qty" : 100, "tags" : [ "cotton" ], "size" : { "h" : 28, "w" : 35.5, "uom" : "cm" } }
{ "_id" : ObjectId("612860cb233a346e57fae9aa"), "item" : "abc", "qty" : 50, "tags" : [ "wow" ], "size" : { "h" : 40, "w" : 70, "uom" : "cm" } }
```

3. Update Operations:

```
> db.inventory.updateOne({"qty":100},{ $set:{ "qty":300}})
{ "acknowledged" : true, "matchedCount" : 1, "modifiedCount" : 1 }
```

After updating:

```
> db.inventory.find()
{ "_id" : ObjectId("61285efc233a346e57fae9a8"), "item" : "canvas", "qty" : 300, "tags" : [ "cotton" ], "size" : { "h" : 28, "w" : 35.5, "uom" : "cm" } }
{ "_id" : ObjectId("612860cb233a346e57fae9a9"), "item" : "journal", "qty" : 25, "tags" : [ "blank", "red" ], "size" : { "h" : 30, "w" : 20, "uom" : "cm" } }
{ "_id" : ObjectId("612860cb233a346e57fae9aa"), "item" : "abc", "qty" : 50, "tags" : [ "wow" ], "size" : { "h" : 40, "w" : 70, "uom" : "cm" } }
```

4. Delete Operations:

```
> db.inventory.deleteOne({item:"abc"})
{ "acknowledged" : true, "deletedCount" : 1 }
```

After deleting:

```
> db.inventory.find()
{ "_id" : ObjectId("61285efc233a346e57fae9a8"), "item" : "canvas", "qty" : 300, "tags" : [ "cotton" ], "size" : { "h" : 28, "w" : 35.5, "uom" : "cm" } }
{ "_id" : ObjectId("612860cb233a346e57fae9a9"), "item" : "journal", "qty" : 25, "tags" : [ "blank", "red" ], "size" : { "h" : 30, "w" : 20, "uom" : "cm" } }
> 
```