

# Ejercicio 3 Query Documents

## Práctica de consultas más a profundidad sobre MongoDB

En esta práctica profundizamos un poco más en las consultas de mongodb utilizando varios operadores nuevos como \$in, \$nor, \$nin. (La información sobre estos y más operadores fue extraída de [aquí](#))

Después de introducir los datos extraídos de la misma página web de mongo, realizamos una serie de consultas:

1) `db.inventory.find({$nor:[{'size.w':{$gte:25}},{'status':'D'}]})`

```
> db.inventory.find( { $nor: [ { 'size.w': { $gte: 25 } }, { status: "D" } ] } )
{ "_id" : ObjectId("5fb2d9719ddc8bf8439b2712"), "item" : "journal", "qty" : 25, "size" : { "h" : 14, "w" : 21, "uom" : "cm" }, "status" : "A" }
{ "_id" : ObjectId("5fb2d9719ddc8bf8439b2713"), "item" : "notebook", "qty" : 50, "size" : { "h" : 8.5, "w" : 11, "uom" : "in" }, "status" : "A" }
{ "_id" : ObjectId("5fb2d9719ddc8bf8439b2716"), "item" : "postcard", "qty" : 45, "size" : { "h" : 10, "w" : 15.25, "uom" : "cm" }, "status" : "A" }
{ "_id" : ObjectId("5fb2ddb79ddc8bf8439b2717"), "item" : "pen", "qty" : 30, "size" : { "h" : 30, "w" : 15, "uom" : "cm" }, "status" : "B" }
{ "_id" : ObjectId("5fb2ddb79ddc8bf8439b271a"), "item" : "rubber", "qty" : 85, "size" : { "h" : 42, "w" : 20, "uom" : "cm" }, "status" : "C" }
```

2) `db.inventory.find({$and:[{qty:{$gt:40}},{'status':{'in':['A','C']}}]})`

```
> db.inventory.find( { $and: [ { qty: { $gt: 40 } }, { status: { $in: [ "A", "C" ] } } ] } )
{ "_id" : ObjectId("5fb2d9719ddc8bf8439b2713"), "item" : "notebook", "qty" : 50, "size" : { "h" : 8.5, "w" : 11, "uom" : "in" }, "status" : "A" }
{ "_id" : ObjectId("5fb2d9719ddc8bf8439b2716"), "item" : "postcard", "qty" : 45, "size" : { "h" : 10, "w" : 15.25, "uom" : "cm" }, "status" : "A" }
{ "_id" : ObjectId("5fb2ddb79ddc8bf8439b271a"), "item" : "rubber", "qty" : 85, "size" : { "h" : 42, "w" : 20, "uom" : "cm" }, "status" : "C" }
{ "_id" : ObjectId("5fb2ddb79ddc8bf8439b271b"), "item" : "sharpener", "qty" : 90, "size" : { "h" : 49.6, "w" : 34, "uom" : "in" }, "status" : "A" }
```

3) `db.inventory.find({$or:[{qty:{$lt:65}},{'size.h':{$gt:34}}]})`

```
> db.inventory.find( { $or: [ { qty: { $lt: 65 } }, { 'size.h': { $gt: 34 } } ] } )
{ "_id" : ObjectId("5fb2d9719ddc8bf8439b2712"), "item" : "journal", "qty" : 25, "size" : { "h" : 14, "w" : 21, "uom" : "cm" }, "status" : "A" }
{ "_id" : ObjectId("5fb2d9719ddc8bf8439b2713"), "item" : "notebook", "qty" : 50, "size" : { "h" : 8.5, "w" : 11, "uom" : "in" }, "status" : "A" }
{ "_id" : ObjectId("5fb2d9719ddc8bf8439b2716"), "item" : "postcard", "qty" : 45, "size" : { "h" : 10, "w" : 15.25, "uom" : "cm" }, "status" : "A" }
{ "_id" : ObjectId("5fb2ddb79ddc8bf8439b2717"), "item" : "pen", "qty" : 30, "size" : { "h" : 30, "w" : 15, "uom" : "cm" }, "status" : "B" }
{ "_id" : ObjectId("5fb2ddb79ddc8bf8439b2718"), "item" : "bag", "qty" : 21, "size" : { "h" : 60, "w" : 34, "uom" : "in" }, "status" : "B" }
{ "_id" : ObjectId("5fb2ddb79ddc8bf8439b2719"), "item" : "pencil case", "qty" : 32, "size" : { "h" : 18.5, "w" : 11, "uom" : "in" }, "status" : "D" }
{ "_id" : ObjectId("5fb2ddb79ddc8bf8439b271a"), "item" : "rubber", "qty" : 85, "size" : { "h" : 42, "w" : 20, "uom" : "cm" }, "status" : "C" }
{ "_id" : ObjectId("5fb2ddb79ddc8bf8439b271b"), "item" : "sharpener", "qty" : 90, "size" : { "h" : 49.6, "w" : 34, "uom" : "in" }, "status" : "A" }
```

4) `db.inventory.find({'$and':[{'size.uom':{'$eq':"cm"}},{status:{$in:["B","D"]}}]})`

```
> db.inventory.find({'$and':[{'size.uom':{'$eq':"cm"}},{status:{$in:["B","D"]}}]})
{ "_id" : ObjectId("5fb2d9719ddc8bf8439b2715"), "item" : "planner", "qty" : 75, "size" : { "h" : 22.85, "w" : 30, "uom" : "cm" }, "status" : "D" }
{ "_id" : ObjectId("5fb2ddb79ddc8bf8439b2717"), "item" : "pen", "qty" : 30, "size" : { "h" : 30, "w" : 15, "uom" : "cm" }, "status" : "B" }
```

5) `db.inventory.find({'$and':[{'qty':{'$nin':[120,40]}},{size.h':{'$gt':6}},{status:"A"}]})`

```
> db.inventory.find({'$and':[{'qty':{'$nin':[120,40]}},{size.h':{'$gt':6}},{status:"A"}]})
{ "_id" : ObjectId("5fb2d9719ddc8bf8439b2712"), "item" : "journal", "qty" : 25, "size" : { "h" : 14, "w" : 21, "uom" : "cm" }, "status" : "A" }
{ "_id" : ObjectId("5fb2d9719ddc8bf8439b2713"), "item" : "notebook", "qty" : 50, "size" : { "h" : 8.5, "w" : 11, "uom" : "in" }, "status" : "A" }
{ "_id" : ObjectId("5fb2d9719ddc8bf8439b2716"), "item" : "postcard", "qty" : 45, "size" : { "h" : 10, "w" : 15.25, "uom" : "cm" }, "status" : "A" }
{ "_id" : ObjectId("5fb2ddb79ddc8bf8439b271b"), "item" : "sharpener", "qty" : 90, "size" : { "h" : 49.6, "w" : 34, "uom" : "in" }, "status" : "A" }
```

Adjunto en el mismo fichero doc capturas a mayor calidad de cada una de las consultas.