## PRÀCTICA 2 : INTROCUCCIÓ AL MOGODB 1) PROJECTAR CAMPS:

```
db.inventory.insert( [
  { item: "journal", status: "A", size: { h: 14, w: 21, uom: "cm" }, instock: [ { warehouse:
   ', qty: 5 } ] },
  { item: "notebook", status: "A", size: { h: 8.5, w: 11, uom: "in" }, instock: [ {
warehouse: "C", qty: 5 } ] },
  { item: "paper", status: "D", size: { h: 8.5, w: 11, uom: "in" }, instock: [ { warehouse:
   , qty: 60 } ] },
{ item: "planner", status: "D", size: { h: 22.85, w: 30, uom: "cm" }, instock: [ { warehouse: "A", qty: 40 } ] },
  { item: "postcard", status: "A", size: { h: 10, w: 15.25, uom: "cm" }, instock: [ {
warehouse: "B", qty: 15 }, { warehouse: "C", qty: 35 } ] }
1);
The following example returns all fields from all documents in the inventory collection
where the status equals "A":
Return All Fields:
db.inventory.find( { status: "A" } )
Return the Specified Fields and the id Field:
db.inventory.find( { status: "A" }, \overline{\{} item: 1, status: 1 } )
Suppress id Field:
db.inventory.find( { status: "A" }, { item: 1, status: 1, _id: 0 } )
Return All But the Excluded Fields:
db.inventory.find( { status: "A" }, { status: 0, instock: 0 } )
db.inventory.find(
   { status: "A" },
{ item: 1, status: 1, "size.uom": 1 }
db.inventory.find(
   { status: "A" },
   { "size.uom": 0 }
Project Specific Array Elements in the Returned Array
For fields that contain arrays, MongoDB provides the following projection operators:
 $elemMatch,
 $slice
 $.
The following example uses the $slice projection operator to return just the last element
 in the instock array:
db.inventory.find( { status: "A" }, { name: 1, status: 1, instock: { $slice: -1 } } )
$elemMatch, $slice, and $ are the only way to project specific elements to include in
the returned array. For instance, you cannot project specific array elements using
 the array index; e.g. { "instock.0": 1 } projection will not project the array with the
first element.
2) ORDENAR RESULTATS
db.inventory.find( {}, {item:1} ).sort({item:-1})
db.inventory.find( {}, {item:1, status:1} ).sort({item:-1, status:1})
```

```
3) VALORS NULL o PROPIETATS INNEXISTENTS
db.inventory.insert([
   { _id: 1, item: null },
   { _id: 2 }
db.inventory.find( { item: null } )
db.inventory.find( { item : { $type: 10 } } )
db.inventory.find( { item : { $exists: false } } )
4) CURSORS
var myCursor = db.inventory.find( { status: "A"} );
myCursor
var myCursor = db.inventory.find( { status: "A"} );
while (myCursor.hasNext()) {
   print(tojson(myCursor.next()));
----
var myCursor = db.inventory.find( { status: "A"} );
while (myCursor.hasNext()) {
   printjson(myCursor.next());
var myCursor = db.inventory.find( { status: "A"} );
myCursor.forEach(printjson);
var myCursor = db.inventory.find( { status: "A" } );
var documentArray = myCursor.toArray();
var myDocument = documentArray[3];
myDocument
```