Day _ 02

db. inventory. find ([tags: [\$exists: false}],

"tags: 1, -id: false})

for composite attributes we use contat name

```
41
42 //$eq , $in , $gt (inventory)
43 //quantity 30 , 50
44 db.inventory.find({quantity: {$in : [ 30 , 50 ] }})
45
46 //Text (status)
47
```

it acts same as or

we use or operator if the or between 2 different fields not solved by an array

\$ in operator takes array not single value

Logical Query operator

Logical Query Operators

db.inventory.find({ \$Operator: [{ price: { \$ne: 1.99 } } , { price: { \$exists: true } } }) }

Name
Description
Joins query clauses with a logical AND returns all documents that match the conditions of both clauses.

Inverts the effect of a query expression and returns documents that do not match the query expression.

Joins query clauses with a logical NOR returns all documents that fail to match both clauses.

Joins query clauses with a logical OR returns all documents that match the conditions of either clause.

db. inventory.find (& # and : [

but all the conditions you want in the and #number of zz is the number of conditions

13)

db - inventory. find (? \$ or : [

29 ty: £ \$9 te: 255 f,

王 Sal : 野in: [50,20]子

db. products. find (E product : Et regex: "(?i) Pc "33) Dignore the case senstive db. inventory find (I tags : I \$ size: 23, tags: [\$ in: [red] blank]] } tag size is equal 2 db. inventory find (I tags : [# size: 25, tags: [fall : [red, blank]] } at least read & black available if there're more components no problem but it should have both - if one of them only it will not give it there's a question in the interview about this point Lo find data has at least red and blank

Comparison between in fall 6 size is additional in the all condition

```
t lag i E all: [red", "blank"], size: 13

it will not give an error because it's not syntax error,

it's Logical error so it will return empty list
```

update & insert has 3 options one relarly, Just insert or update in the last versions

they keep it to help

conflicts if moving from old

version into new one

Name	Description
\$currentDate	Sets the value of a field to current date, either as a Date or a Timestamp.
\$inc .	Increments the value of the field by the specified amount.
Smin	Only updates the field if the specified value is less than the existing field value.
<u>Smax</u>	Only updates the field if the specified value is greater than the existing field value.
Smul	Multiplies the value of the field by the specified amount.
Srename 0	Renames a field.
\$set	Sets the value of a field in a document.
SsetOnInsert	Sets the value of a field if an update results in an insert of a document. Has no effect on update operations that modify existing documents.

min & max operators are different than SQL in NoSQL

```
db-update One ( 15,
       rename E
"dep" = "department"
  I & rename E
  db-employee update Many ( 2 3,
   $ unset: Z
"name": ""
5)
                            / will drop the column
db-employee update Many ( 2 3 )
       # set: ?
"code": "A"
3
  5)
```

```
ow up.emproyee.upuaceone({ ru:ro} )
81 {
82 $set:{
         "code" : "not",
83
        name: "eman"
84
      }
85
86 },
87 {
     upsert:true
88
  upsert works as insert or update
                                   if available
        if not available
```

we can add column to let me know if the record is inserted by the upsert or not 7

by \$ setOnInsert: I data source

data Source is added just in the case of insert

Schema validation

constraint vs. Rule

Imagine that we have a field (column) called code and it has a null value if you created a non NULL constraint it will give an error So you need to change the Null value to non null first

then do the constraint

what if you don't know what data was in the field and you want the data before know to stay the Same but make a Constraint on the data comming in the future.

we can create a Rule

Schema Validation:
lets you create validation rules for your fields, such as allowed data types and value ranges.

db.createCollection ("studenty") {
 validator: {
 bsonType: "object",
 title: "Student Required Input",
 required: ["name", "age", "code"],
 }
}})

After this I should insert name, age, code for each insertion in student