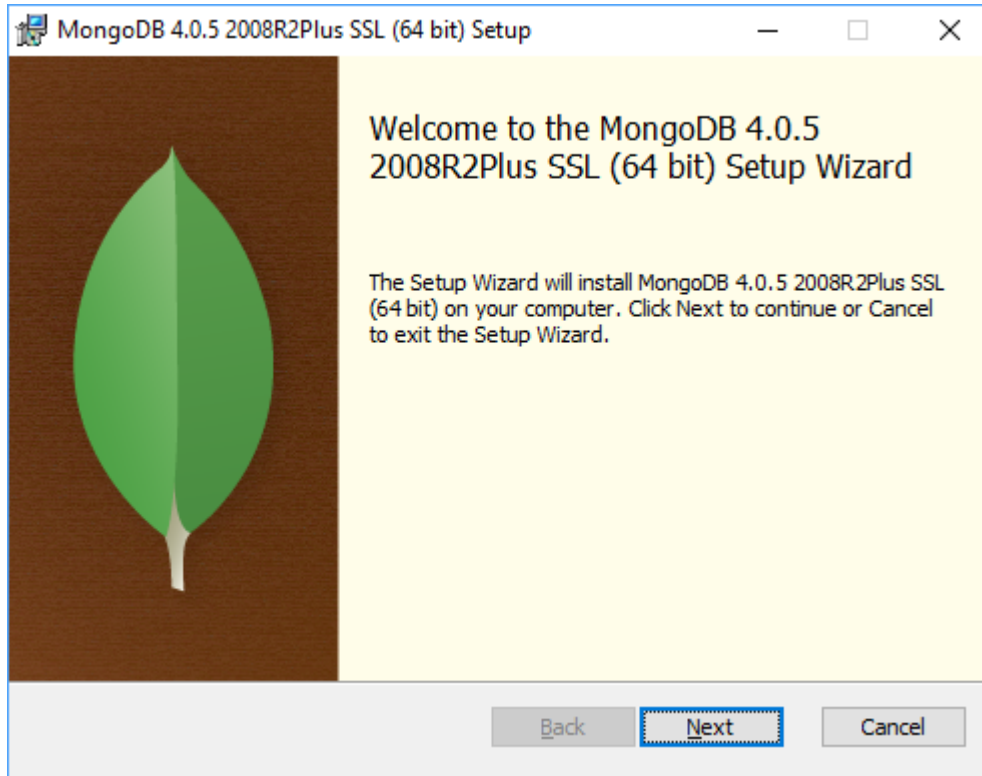
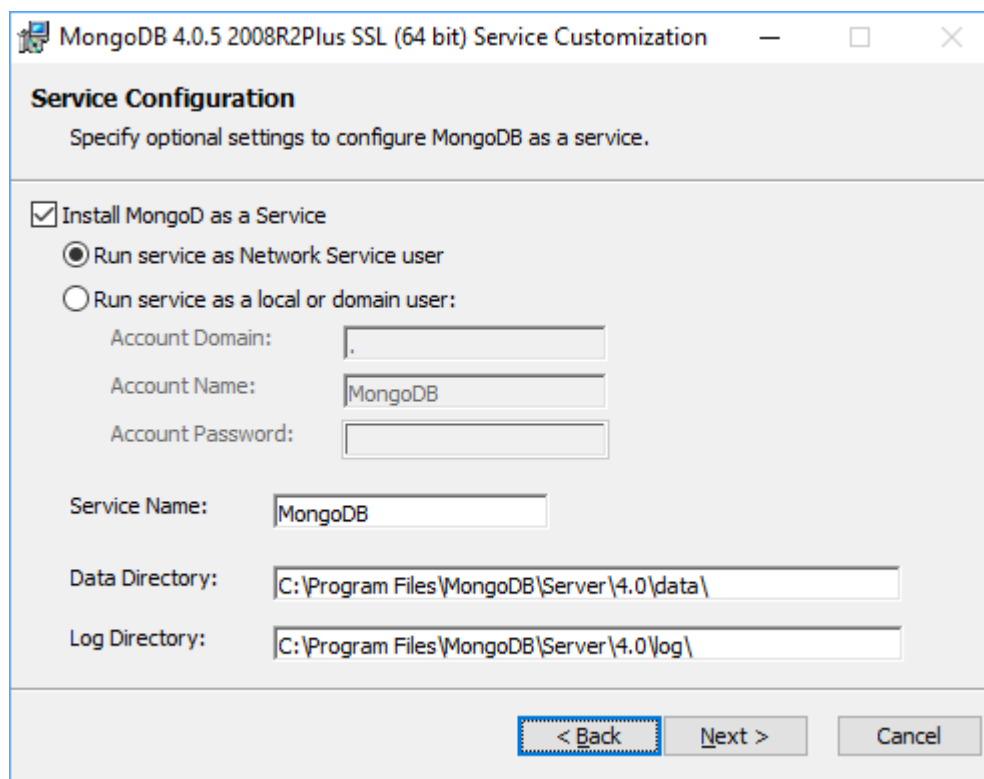
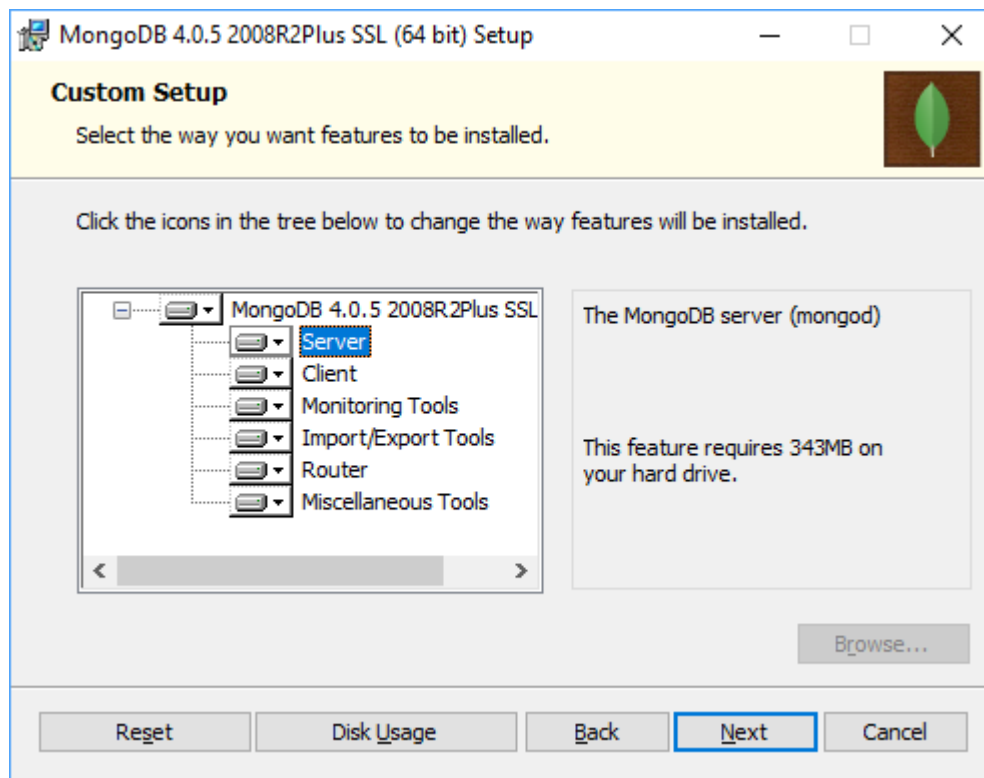




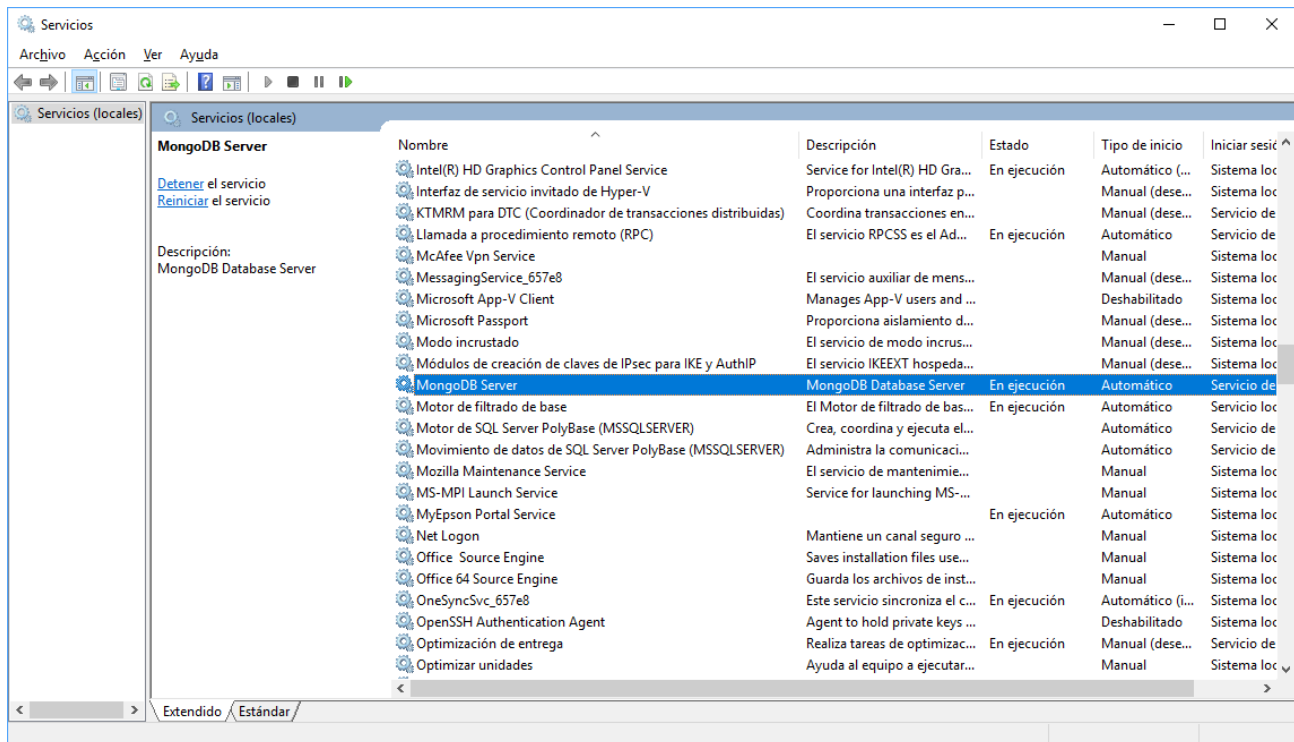
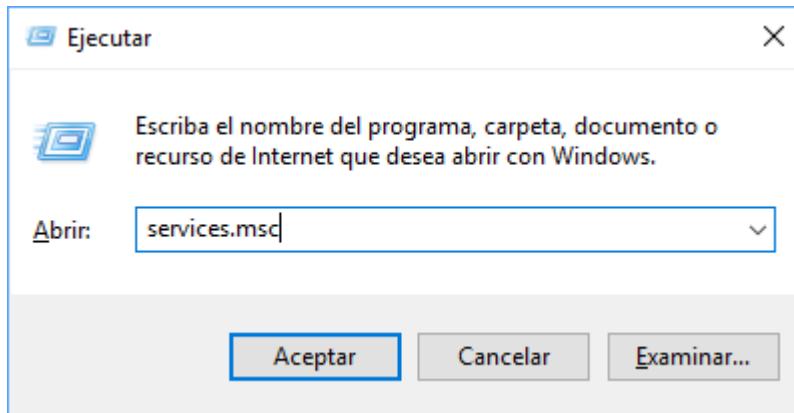
The screenshot shows the MongoDB Download Center website in a web browser. The browser's address bar displays the URL `https://www.mongodb.com/download-center/community`. The page features a dark header with the MongoDB logo and a search icon. Below the header, a navigation bar includes tabs for "Cloud", "Server", and "Tools", with "Server" currently selected. The main content area prompts the user to "Select the server you would like to run:" and offers two options: "MongoDB Community Server" (labeled "FEATURE RICH. DEVELOPER READY.") and "MongoDB Enterprise Server" (labeled "ADVANCED FEATURES. PERFORMANCE GRADE."). Under the Community Server option, there are dropdown menus for "Version" (set to "4.0.7 (current release)") and "OS" (set to "Windows 64-bit x64"). A "Package" dropdown is set to "MSI". A prominent green "Download" button is positioned below these selections. To the right of the download options, a list of links includes "Release notes", "Changelog", "All version binaries", "Installation instructions", and "Download source (tgz)".

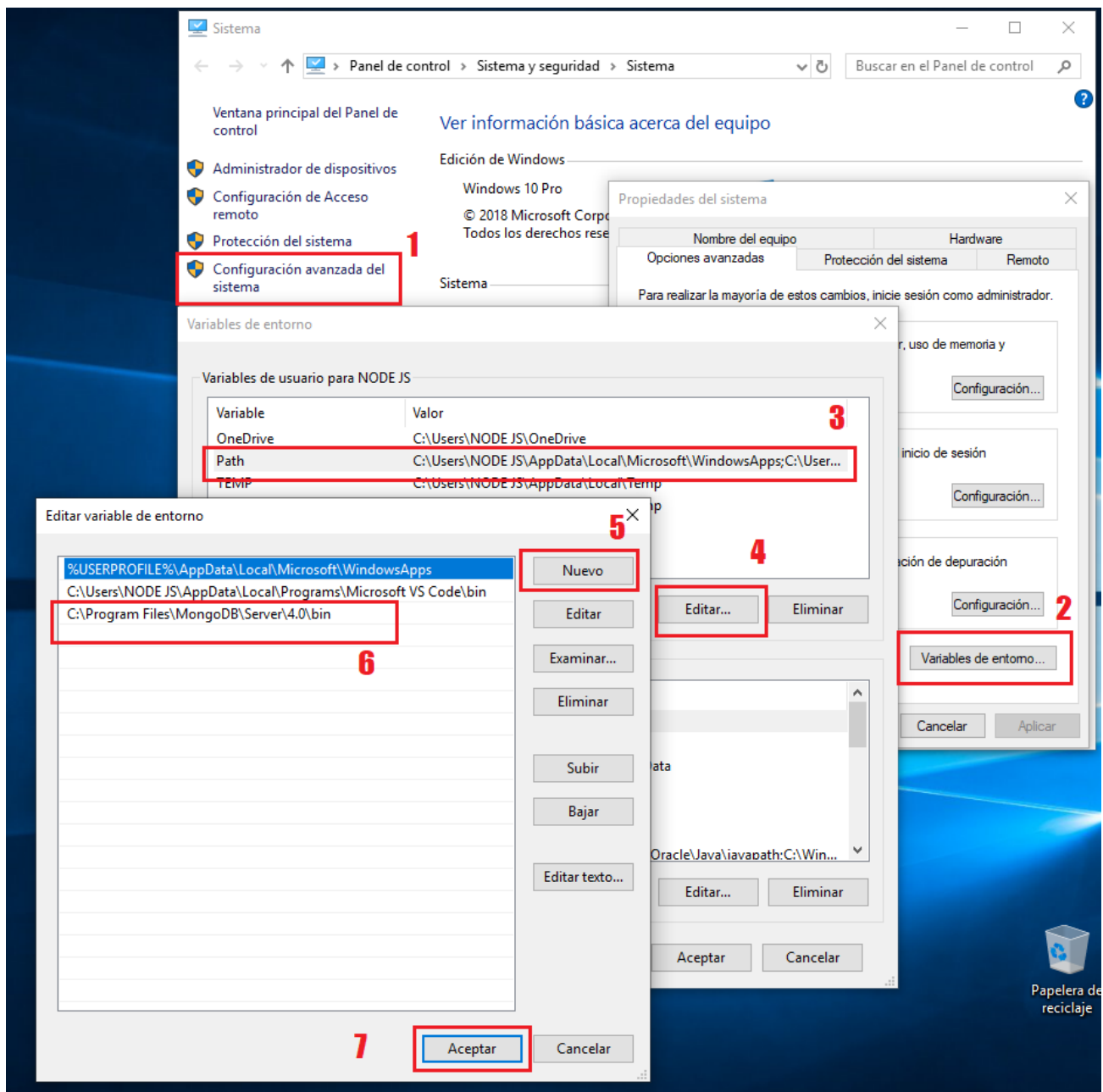
Instalación





C:\Program Files\MongoDB\Server\4.0\data\



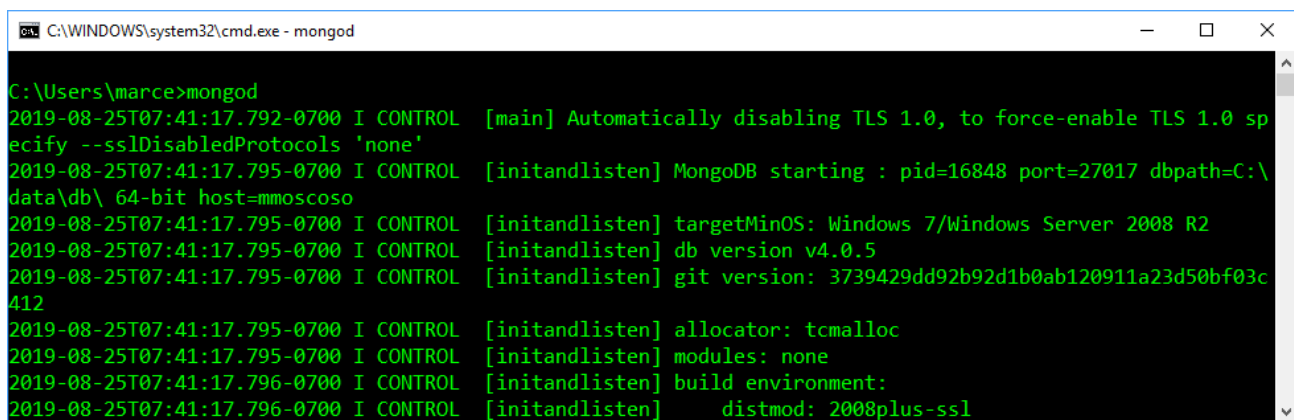


C:\Program Files\MongoDB\Server\4.0\bin

Version: **mongod --version**

Servicio: **mongod**

En Windows creamos la carpeta **c:\data\db**



```
C:\WINDOWS\system32\cmd.exe - mongod

C:\Users\marce>mongod
2019-08-25T07:41:17.792-0700 I CONTROL [main] Automatically disabling TLS 1.0, to force-enable TLS 1.0 specify --sslDisabledProtocols 'none'
2019-08-25T07:41:17.795-0700 I CONTROL [initandlisten] MongoDB starting : pid=16848 port=27017 dbpath=C:\data\db\ 64-bit host=mmoscoso
2019-08-25T07:41:17.795-0700 I CONTROL [initandlisten] targetMinOS: Windows 7/Windows Server 2008 R2
2019-08-25T07:41:17.795-0700 I CONTROL [initandlisten] db version v4.0.5
2019-08-25T07:41:17.795-0700 I CONTROL [initandlisten] git version: 3739429dd92b92d1b0ab120911a23d50bf03c412
2019-08-25T07:41:17.795-0700 I CONTROL [initandlisten] allocator: tcmalloc
2019-08-25T07:41:17.795-0700 I CONTROL [initandlisten] modules: none
2019-08-25T07:41:17.796-0700 I CONTROL [initandlisten] build environment:
2019-08-25T07:41:17.796-0700 I CONTROL [initandlisten] distmod: 2008plus-ssl
```

MongoDB starting : port=27017 dbpath=c:\data\db

Conceptos:

- Base de datos
- Colecciones
- Documentos



Shell de mongodb: mongo

```
Seleccionar C:\WINDOWS\system32\cmd.exe - mongo

C:\Users\marce>mongo
MongoDB shell version v4.0.5
connecting to: mongodb://127.0.0.1:27017/?gssapiServiceName=mongodb
Implicit session: session { "id" : UUID("73200e67-1f49-4d43-a7dd-d6be3a433a4d") }
MongoDB server version: 4.0.5
Server has startup warnings:
2019-08-25T07:41:19.069-0700 I CONTROL [initandlisten]
2019-08-25T07:41:19.069-0700 I CONTROL [initandlisten] ** WARNING: Access control is not e
nable for the database.
2019-08-25T07:41:19.070-0700 I CONTROL [initandlisten] **          Read and write access t

The monitoring data will be available on a MongoDB website with a unique URL accessible to
you
and anyone you share the URL with. MongoDB may use this information to make product
improvements and to suggest MongoDB products and deployment options to you.

To enable free monitoring, run the following command: db.enableFreeMonitoring()
To permanently disable this reminder, run the following command: db.disableFreeMonitoring()

---
>
```

```
C:\WINDOWS\system32\cmd.exe - mongo
To permanently disable this reminder, run the following command: db.disableFreeMonitoring()
---
> help
    db.help()                help on db methods
    db.mycoll.help()         help on collection methods
    sh.help()                sharding helpers
    rs.help()                replica set helpers
    help admin               administrative help
    help connect             connecting to a db help
    help keys                key shortcuts
    help misc                misc things to know
    help mr                  mapreduce

    show dbs                 show database names
    show collections          show collections in current database
    show users               show users in current database
    show profile             show most recent system.profile entries with time >= 1ms
    show logs                show the accessible logger names
    show log [name]          prints out the last segment of log in memory, 'global' is
default
    use <db_name>            set current database
    db.foo.find()            list objects in collection foo
    db.foo.find( { a : 1 } ) list objects in foo where a == 1
    it                       result of the last line evaluated; use to further iterate

    DBQuery.shellBatchSize = x set default number of items to display on shell
    exit                     quit the mongo shell
>
```




```
show dbs
use cognos-db
db
db.createCollection('alumnos')
db.alumnos.insert({ci:123456,nombre:'ana',apellido:'gomez',
curso:'angular'})
db.alumnos.find()
show cognos-db
db.alumnos.find().pretty()

db.cursos.insert([{curso:'angular'}, {curso:'reactjs'},
{curso:'nodejs'}, {curso:'flutter'}])

db.alumnos.find({ci:123456})
db.alumnos.find().sort({apellido:1})
db.alumnos.count()

db.alumnos.update({ci:223344},{ci:223344,nombre:'marco',
apellido:'vargas',curso:'reactjs'})

db.alumnos.update({ci:33444},{ $set:{curso:'reactjs'}})
db.alumnos.remove({ci:33444})
```

Operadores \$eq \$gt \$gte \$lt \$lte \$in \$nin \$ne

```
C:\Program Files\MongoDB\Server\4.0\bin\mongo.exe
> db.alumnos.find().pretty()
{
  "_id" : ObjectId("5c9b76cc37429497bf73b3c4"),
  "nombres" : "Ana",
  "apellidos" : "Gomez",
  "cursos" : [
    {
      "curso" : "Nodejs",
      "fecha_ini" : "2019-01-15",
      "fecha_fin" : "2019-01-25",
      "nota" : 75
    },
    {
      "curso" : "Angular 7",
      "fecha_ini" : "2019-02-01",
      "fecha_fin" : "2019-02-15",
      "nota" : 80
    }
  ]
},
{
  "_id" : ObjectId("5c9b76df37429497bf73b3c5"),
  "nombres" : "Jorge",
  "apellidos" : "Chavez",
  "cursos" : [
    {
      "curso" : "Nodejs",
      "fecha_ini" : "2019-01-15",
      "fecha_fin" : "2019-01-25",
      "nota" : 80
    },
    {
      "curso" : "Angular 7",
      "fecha_ini" : "2019-02-01",
      "fecha_fin" : "2019-02-15",
      "nota" : 80
    }
  ]
}
>
```



```
C:\Program Files\MongoDB\Server\4.0\bin\mongo.exe
> db.alumnos.find({cursos:{$elemMatch: {nota : {$eq:75}}}}).pretty()
{
  "_id" : ObjectId("5c9b76cc37429497bf73b3c4"),
  "nombres" : "Ana",
  "apellidos" : "Gomez",
  "cursos" : [
    {
      "curso" : "Nodejs",
      "fecha_ini" : "2019-01-15",
      "fecha_fin" : "2019-01-25",
      "nota" : 75
    },
    {
      "curso" : "Angular 7",
      "fecha_ini" : "2019-02-01",
      "fecha_fin" : "2019-02-15",
      "nota" : 80
    }
  ]
}
```

\$eq - equal - igual

\$lt - low than - menor que

\$lte - low than equal - menor o igual que

\$gt - greater than - mayor que

\$gte - greater than equal - mayor o igual que

\$ne - not equal - distinto

\$in - in - dentro de

\$nin - not in - no dentro de

[**https://docs.mongodb.com/manual/crud/**](https://docs.mongodb.com/manual/crud/)