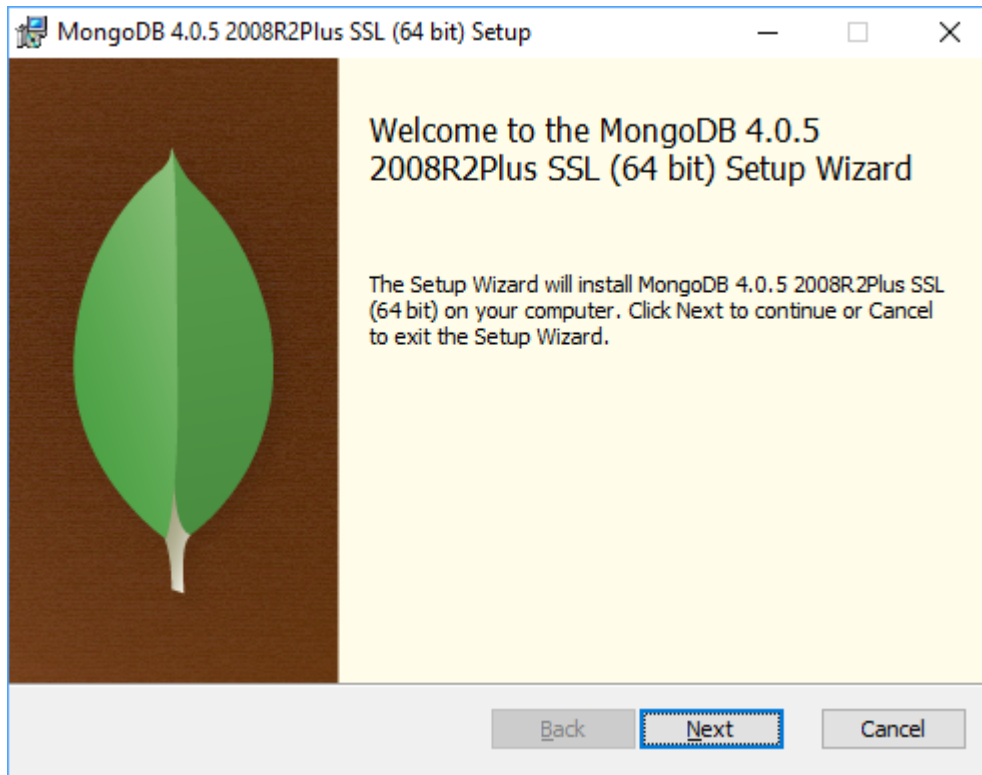
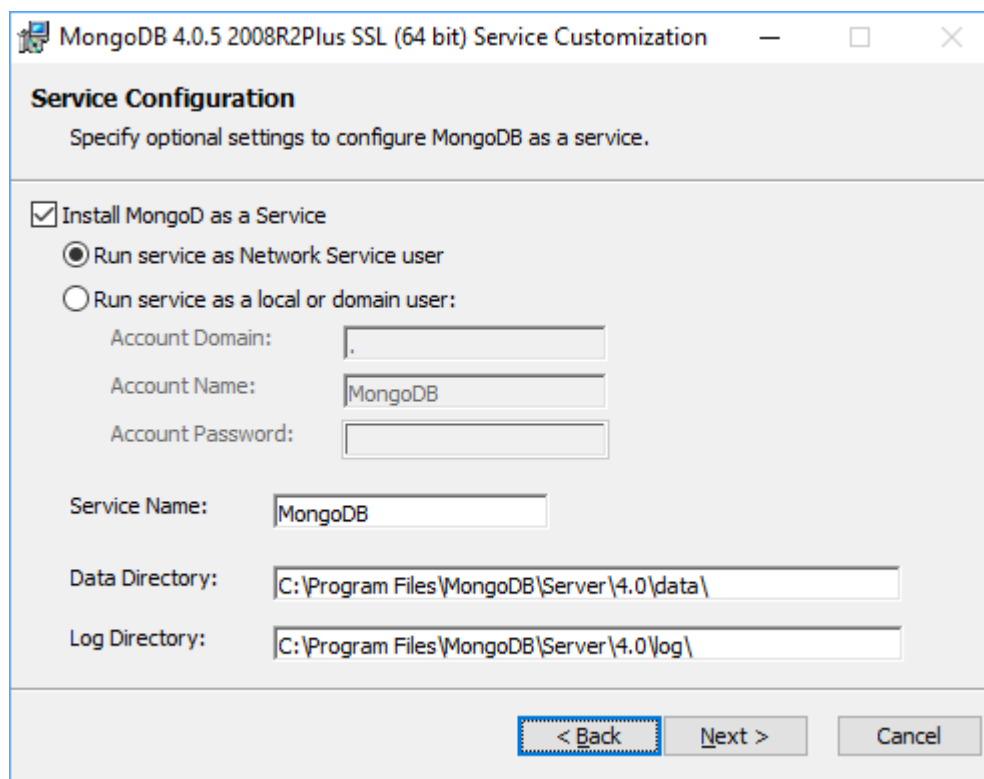
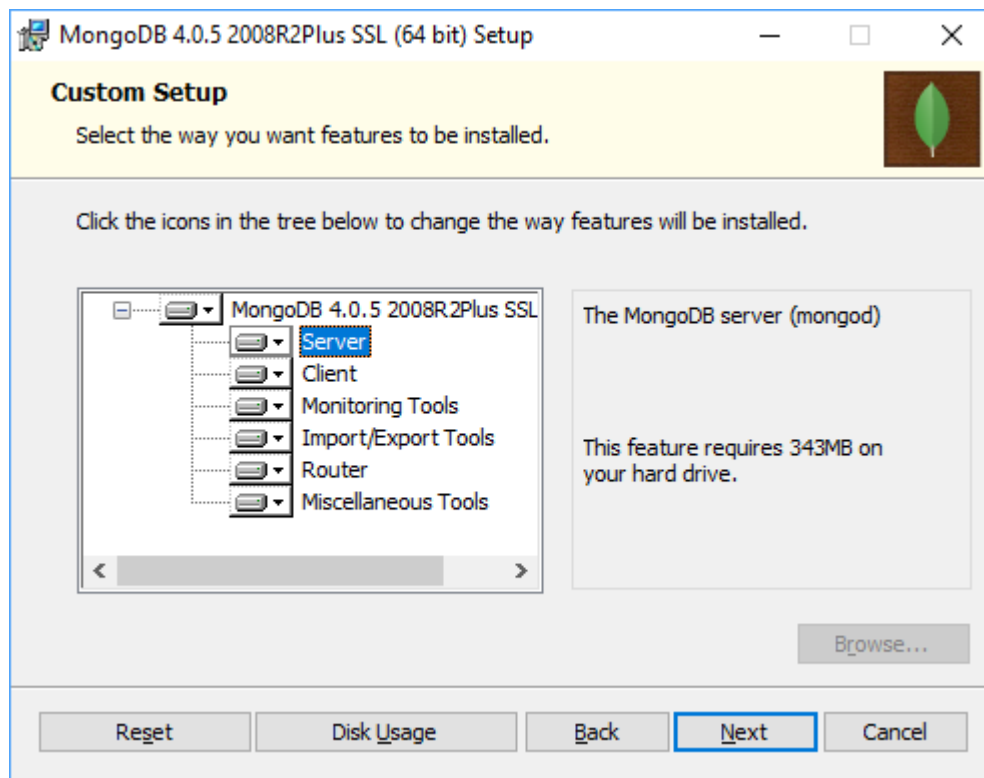




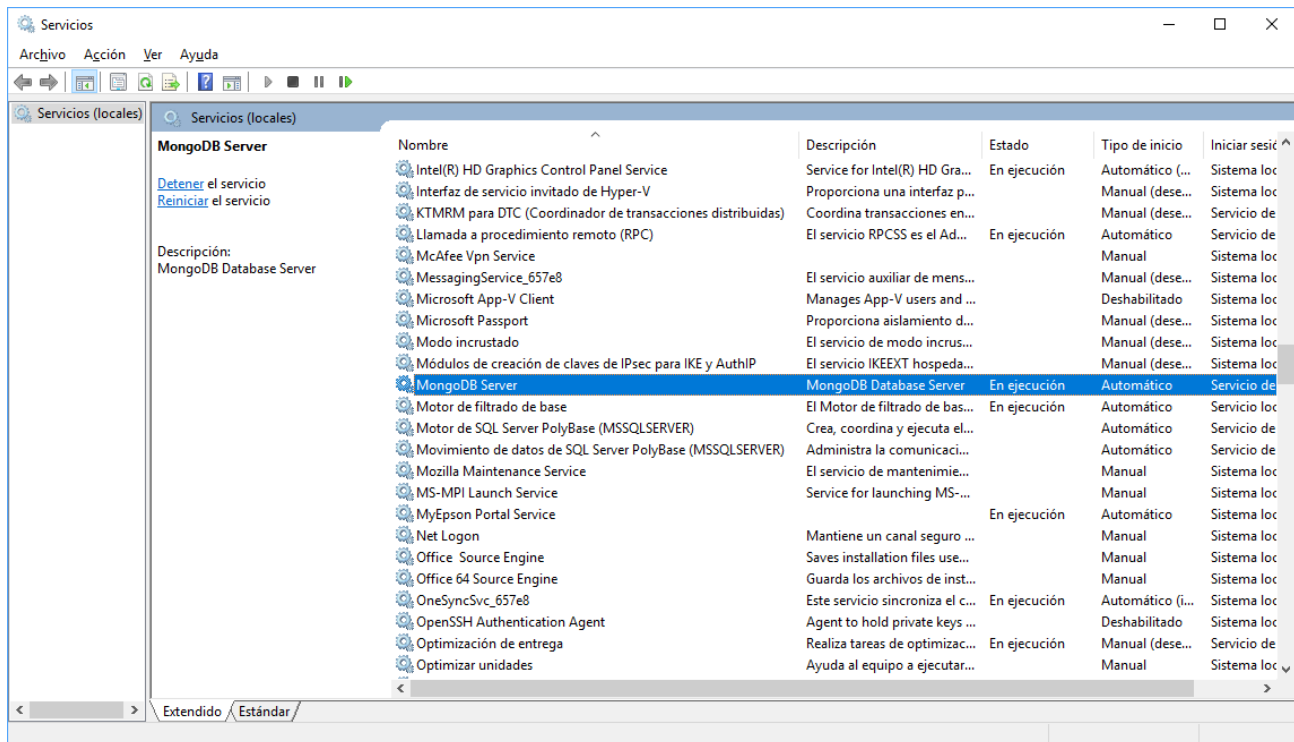
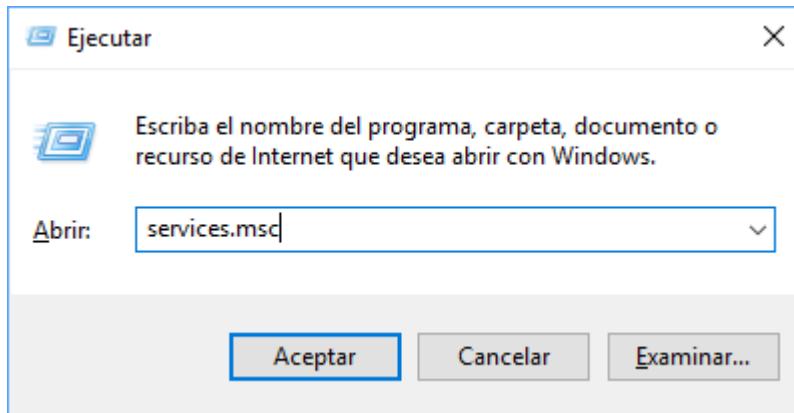
The screenshot shows the MongoDB Download Center website in a web browser. The browser's address bar displays the URL `https://www.mongodb.com/download-center/community`. The page features a dark header with the MongoDB logo and a search icon. Below the header, a navigation bar includes tabs for 'Cloud', 'Server' (which is selected), and 'Tools'. The main content area is titled 'MongoDB Download Center' and prompts the user to 'Select the server you would like to run:'. Two options are presented: 'MongoDB Community Server' with the tagline 'FEATURE RICH. DEVELOPER READY.' and 'MongoDB Enterprise Server' with 'ADVANCED FEATURES. PERFORMANCE GRADE.'. Below these, 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 located below the package selection. To the right of the download options, a list of links is provided: 'Release notes', 'Changelog', 'All version binaries', 'Installation instructions', and 'Download source (tgz)'.

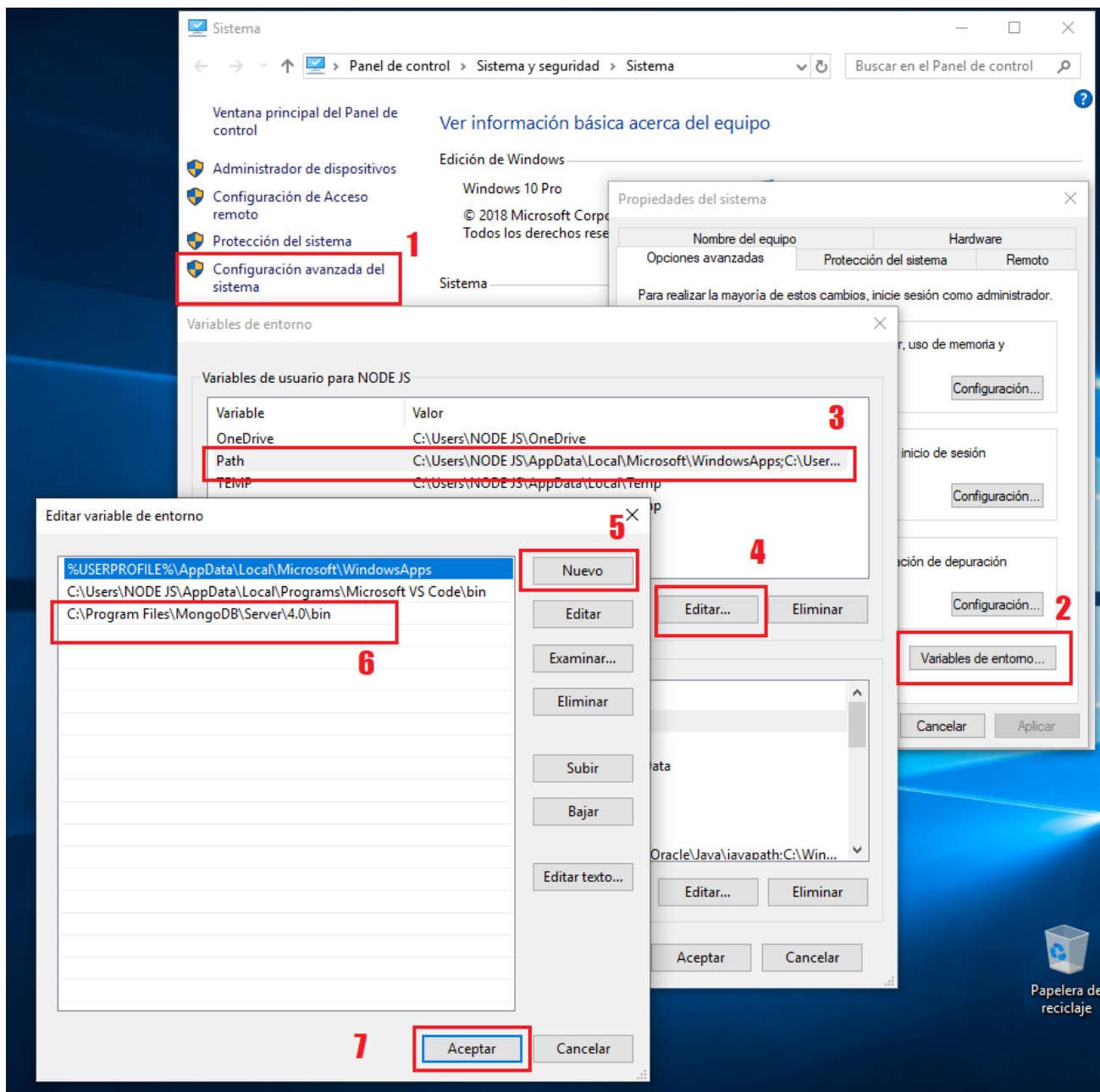
## Instalación





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





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

```
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("f73e5913-7ccb-451c-9e03-3ae51034f34e") }
MongoDB server version: 4.0.5
Server has startup warnings:
2019-03-26T15:09:54.749-0400 I CONTROL [initandlisten]
2019-03-26T15:09:54.749-0400 I CONTROL [initandlisten] ** WARNING: Access control is not enabled for the database.
2019-03-26T15:09:54.749-0400 I CONTROL [initandlisten] **           Read and write access to data and configuration is unrestricted.
2019-03-26T15:09:54.749-0400 I CONTROL [initandlisten]
---
Enable MongoDB's free cloud-based monitoring service, which will then receive and display metrics about your deployment (disk utilization, CPU, operation statistics, etc).

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()
---
> show dbs
```

<https://docs.mongodb.com/manual/crud/>



```
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("9de3b13e-4b7c-4ab7-a309-4c37af0cbbc9") }
MongoDB server version: 4.0.5
Server has startup warnings:
2019-03-26T15:09:54.749-0400 I CONTROL [initandlisten]
2019-03-26T15:09:54.749-0400 I CONTROL [initandlisten] ** WARNING: Access control is not enable
d for the database.
2019-03-26T15:09:54.749-0400 I CONTROL [initandlisten] **           Read and write access to dat
a and configuration is unrestricted.
2019-03-26T15:09:54.749-0400 I CONTROL [initandlisten]
---
Enable MongoDB's free cloud-based monitoring service, which will then receive and display
metrics about your deployment (disk utilization, CPU, operation statistics, etc).

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()
---
> use cognos-db
switched to db cognos-db
> db.alumnos.insertOne({id:1,nombres:'Marcelo',apellidos:'Moscoso'})
{
  "acknowledged" : true,
  "insertedId" : ObjectId("5c9a7dec197825079f71315a")
}
> db.alumnos.find()
{ "_id" : ObjectId("5c9a7dec197825079f71315a"), "id" : 1, "nombres" : "Marcelo", "apellidos" : "
Moscoso" }
>
```

```
C:\Program Files\MongoDB\Server\4.0\bin\mongo.exe

> use cognos-db
switched to db cognos-db
> show collections
alumnos
> db.alumnos.find()
{ "_id" : ObjectId("5c9a7dec197825079f71315a"), "id" : 1, "nombres" : "Marcelo", "apellido
s" : "Moscoso" }
>
```

```
C:\Program Files\MongoDB\Server\4.0\bin\mongo.exe

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

> use cognos-db
switched to db cognos-db
> show collections
alumnos
> db.alumnos.find();
{ "_id" : ObjectId("5c9a7dec197825079f71315a"), "id" : 1, "nombres" : "Marcelo", "apellidos" : "Moscoso" }
{ "_id" : ObjectId("5c9a82936008366e0acc50ae"), "id" : 2, "nombres" : "Ana", "apellidos" : "Gomez" }
{ "_id" : ObjectId("5c9a82b56008366e0acc50af"), "id" : 3, "nombres" : "Jorge", "apellidos" : "chavez" }
> db.alumnos.find({id:2})
{ "_id" : ObjectId("5c9a82936008366e0acc50ae"), "id" : 2, "nombres" : "Ana", "apellidos" : "Gomez" }
> db.alumnos.updateOne({id:2},{ $set:{apellidos:'Garcia'}})
{ "acknowledged" : true, "matchedCount" : 1, "modifiedCount" : 1 }
```

```
C:\Program Files\MongoDB\Server\4.0\bin\mongo.exe

> db.alumnos.deleteOne({id:2})
{ "acknowledged" : true, "deletedCount" : 1 }
> db.alumnos.find()
{ "_id" : ObjectId("5c9a7dec197825079f71315a"), "id" : 1, "nombres" : "Marcelo", "apellidos" : "Moscoso" }
{ "_id" : ObjectId("5c9a82b56008366e0acc50af"), "id" : 3, "nombres" : "Jorge", "apellidos" : "chavez" }
>
```

```
Seleccionar C:\Program Files\MongoDB\Server\4.0\bin\mongo.exe

> show collections
alumnos
> db.alumnos.deleteMany({})
{ "acknowledged" : true, "deletedCount" : 2 }
> show collections
alumnos
> db.alumnos.drop()
true
>
```





```
db.alumnos.insertOne(
  {
    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
      }
    ]
  }
);

db.alumnos.insertOne(
  {
    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
      }
    ]
  }
);
```

## 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**

Robo 3T - 1.2

File View Options Window Help

local (7)

- System
- cognos-db
- config
- corredores-db
- order-list
- test

Welcome x db.getCollection('alumnos').find... x

local localhost:27017 cognos-db

```
db.getCollection('alumnos').find({})
```

alumnos 0.022 sec.

Key	Value	Type
▼ (1) ObjectId("5c9b76cc37429497...") { 4 fields }		Object
_id	ObjectId("5c9b76cc37429497bf73b3c4")	ObjectId
nombres	Ana	String
apellidos	Gomez	String
▼ cursos [ 2 elements ]		Array
> [0] { 4 fields }		Object
> [1] { 4 fields }		Object
▼ (2) ObjectId("5c9b76df37429497...") { 4 fields }		Object
_id	ObjectId("5c9b76df37429497bf73b3c5")	ObjectId
nombres	Jorge	String
apellidos	Chavez	String
▼ cursos [ 2 elements ]		Array
▼ [0] { 4 fields }		Object
curso	Nodejs	String
fecha_ini	2019-01-15	String
fecha_fin	2019-01-25	String
nota	80.0	Double
▼ [1] { 4 fields }		Object
curso	Angular 7	String
fecha_ini	2019-02-01	String
fecha_fin	2019-02-15	String
nota	80.0	Double

Logs