

08 CRUD Cursores

Iterate a Cursor in the mongo Shell

In the mongo shell, when you assign the cursor returned from the find() method to a variable using the var keyword, the cursor does not automatically iterate.

Práctica

```
> use gimnasio
> let clientes = db.clientes.find()

> while (clientes.hasNext()) { print(tojson(clientes.next())); } // Vacía la variable

> clientes = db.clientes.find()

> while (clientes.hasNext()) { printjson(clientes.next());}

> clientes = db.clientes.find()

> clientes.forEach(printjson)

> clientes = db.clientes.find()

> let arrayClientes = clientes.toArray()
> arrayClientes[2]
{
  "_id" : ObjectId("5e275f11d4ba0ea8964cde7"),
  "nombre" : "Carlos",
  "apellidos" : "Pérez Góngora"
}
```

Método count()

<https://docs.mongodb.com/manual/reference/method/cursor.count/#cursor.count>

Counts the number of documents referenced by a cursor. Append the count() method to a find() query to return the number of matching documents. The operation does not perform the query but instead counts the results that would be returned by the query.

Sintaxis

```
db.collection.find(<query>).count()
```

Práctica

```
> db.titulos.find({autor: /Mario/}).count()
```

Método limit()

<https://docs.mongodb.com/manual/reference/method/cursor.limit/#cursor.limit>

Use the limit() method on a cursor to specify the maximum number of documents the cursor will return.

Sintaxis

```
db.collection.find(<query>).limit(<number>)
```

Práctica

```
> db.titulos.find({}).limit(3)
```

Método skip()

<https://docs.mongodb.com/manual/reference/method/cursor.skip/>

Call the cursor.skip() method on a cursor to control where MongoDB begins returning results. This approach may be useful in implementing paginated results.

Sintaxis

```
db.collection.find(<query>).skip(<number>)
```

Práctica

```
> db.titulos.find({}).skip(2)
```

Método sort()

<https://docs.mongodb.com/manual/reference/method/cursor.sort/>

Specifies the order in which the query returns matching documents. You must apply `sort()` to the cursor before retrieving any documents from the database.

Sintaxis

```
db.collection.find(<query>).sort(<document>)
```

Práctica

```
> db.titulos.find({}).sort({autor: -1})
```

```
> db.titulos.find({}).sort({autor: -1, titulo: 1})
```

Método distinct()

<https://docs.mongodb.com/manual/reference/method/db.collection.distinct/>

Finds the distinct values for a specified field across a single collection or view and returns the results in an array.

Sintaxis

```
db.collection.distinct(field, query, options)
```

Options

```
{ collation: <document> }
```

Práctica

```
> db.clientes.distinct("apellidos")
```

```
[  
  "Pérez",  
  "Gómez",  
  "López",  
  "González",  
  "Gutierrez",  
  "Martínez",  
  "Sánchez",  
  "García",  
  "García Pérez",  
  "Gutiérrez López",  
  "López Gómez",  
  "Pérez Góngora",  
  "Pérez \nGóngora",  
  "Friedrich Hieronymus, \nbarón de Münchhausen",  
  "Friedrich Hieronymus. \nbarón de Münchhausen"  
]
```