



Ingeniería en Sistemas Computacionales

Bases de Datos No Relacionales

“MongoDB MQL Intro”

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A continuación se detallan una serie de pasos iniciales para comenzar a manipular bases de datos orientadas a objetos. Para su demostración, se hará uso de Docker con una imagen de MongoDB, así como la herramienta de “Compass” para realizar las sentencias de alteración y consulta de datos.

- Contenedor propio corriendo

```
marcordero@mrch-ubuntu:~$ sudo docker run --name mongo_marco -p 27017:27017 -d mongo
55bf227f21f14af015b13f89491e339e0a1da6f53e3dac0e8bdb36c069177592
marcordero@mrch-ubuntu:~$ sudo docker start mongo_marco
mongo_marco
marcordero@mrch-ubuntu:~$ sudo docker ps
```

CONTAINER ID	IMAGE	COMMAND	CREATED	STATUS	PORTS	NAMES
55bf227f21f1	mongo	"docker-entrypoint.s..."	56 seconds ago	Up 54 seconds	0.0.0.0:27017->27017/tcp, :::27017->27017/tcp	mongo_marco

- Comando de creación de usuarios



Create Database

Database Name

Collection Name

Insert Document


To Collection iteso.users



VIEW  

```
1 {
2   {
3     "name": "mike",
4     "age": 55,
5     "status": "accepted"
6   },
7   {
8     "name": "jen",
9     "age": 32,
10    "status": "pending"
11  },
12  {
13    "name": "john",
14    "age": 18,
15    "status": "pending"
16  },
17  {
18    .. ..
19  }
```

iteso.users

Documents Aggregations Schema Explain Plan Indexes Validation

Filter  Type a query: { field: 'value' }

 ADD DATA  EXPORT COLLECTION

<pre>_id: ObjectId('63f43af165bb6be046f309c0') name: "mike" age: 55 status: "accepted"</pre>
<pre>_id: ObjectId('63f43af165bb6be046f309c1') name: "jen" age: 32 status: "pending"</pre>
<pre>_id: ObjectId('63f43af165bb6be046f309c2') name: "john" age: 18 status: "pending"</pre>
<pre>_id: ObjectId('63f43af165bb6be046f309c3') name: "sue" age: 50 status: "rejected"</pre>
<pre>_id: ObjectId('63f43af165bb6be046f309c4')</pre>

- Query 1 (edad > 21)

iteso.users

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DOCUMENTS

Documents

Aggregations

Schema

Explain Plan

Indexes

Validation

Filter

age: { \$gt: 21 }

Reset

Find

More

ADD DATA

EXPORT COLLECTION

1 - 4 of 4

_id: ObjectId('63f43af165bb6be046f309c0')

name: "mike"

age: 55

status: "accepted"

_id: ObjectId('63f43af165bb6be046f309c1')

name: "jen"

age: 32

status: "pending"

_id: ObjectId('63f43af165bb6be046f309c3')

name: "sue"

age: 50

status: "rejected"

_id: ObjectId('63f43af165bb6be046f309c4')

name: "mary"

age: 23

status: "pending"

- Query 2 (status “pending”)

iteso.users

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DOCUMENTS

Documents

Aggregations

Schema

Explain Plan

Indexes

Validation

Filter

{ status: 'pending' }

Reset

Find

More

ADD DATA

EXPORT COLLECTION

1 - 3 of 3

_id: ObjectId('63f43af165bb6be046f309c1')

name: "jen"

age: 32

status: "pending"

_id: ObjectId('63f43af165bb6be046f309c2')

name: "john"

age: 18

status: "pending"

_id: ObjectId('63f43af165bb6be046f309c4')

name: "mary"

age: 23

status: "pending"