

## S9.01. Consultes amb MongoDB

Álvaro Míguez

Nivel 1

### - Exercici 1

- Mostra els 2 primers comentaris que hi ha en la base de dades.
- Quants usuaris tenim registrats?
- Quants cinemes hi ha en l'estat de Califòrnia?
- Quin va ser el primer usuari/ària en registrar-se?
- Quantes pel·lícules de comèdia hi ha en la nostra base de dades?

Mostra els 2 primers comentaris que hi ha en la base de dades.

The screenshot shows the MongoDB Compass interface. At the top, there's a query editor with a placeholder query: `{ field: 'value' }`. Below it, the query is set to `{ field: 0 }`. The sort is set to `{ date: 1 }`. The collation is `{ locale: 'simple' }`. The index hint is `{ field: -1 }`. On the right, there are buttons for 'Explain', 'Reset', 'Find', and 'Options'. Below the query editor, there are buttons for 'ADD DATA', 'EXPORT DATA', 'UPDATE', and 'DELETE'. The results section shows two documents. The first document is a comment with a date of 1978-01-01T01:07:09.000+00:00. The second document is a comment with a date of 1978-01-01T09:37:49.000+00:00.

```
{ "_id": ObjectId("5a942764b0beebe695e67e"), "name": "Mercedes Tyler", "email": "mercedes_tyler@fakegmail.com", "movie_id": ObjectId("573a1399f29313caabce3ce"), "text": "Optio totam dolores magni. Enim ratione fuga tempora voluptatum est cu...", "date": 1978-01-01T01:07:09.000+00:00 }
```

```
{ "_id": ObjectId("5a9427658b0beebe6969efe"), "name": "Jon Snow", "email": "kit_harington@gameofthron.es", "movie_id": ObjectId("573a1394f29313caab817df"), "text": "Dolorem anief tempora ullam quas. Iusto nobis reprehenderit aspernatur...", "date": 1978-01-01T09:37:49.000+00:00 }
```

Quants usuaris tenim registrats?

185.

The screenshot shows the MongoDB Compass interface. On the left, there's a sidebar with a search bar and a list of databases: 'Spring9', 'Comments', 'Sessions', 'Theaters', 'Users', 'Movies', 'admin', 'config', and 'local'. The 'Users' database is selected. The main area shows a query editor with a placeholder query: `{ field: 'value' }`. Below it, the query is set to `{ field: 0 }`. The sort is set to `{ date: 1 }`. The collation is `{ locale: 'simple' }`. The index hint is `{ field: -1 }`. On the right, there are buttons for 'Explain', 'Reset', 'Find', and 'Options'. Below the query editor, there are buttons for 'ADD DATA', 'EXPORT DATA', 'UPDATE', and 'DELETE'. The results section shows six documents. Each document is a user with a name, email, and password. The first document is a user with a name of 'Ned Stark' and a password of '\$2b\$12\$UREFwsUoyFBCRqGMK8z08HM/3LhgUCMNI29R3AqMUQ74cr131VUu'. The second document is a user with a name of 'Robert Baratheon' and a password of '\$2b\$12\$y6qxL69LZpMA2xV0huPn50Zd.VURVxz7wgDLY3pn0Bs7u251Z032y'. The third document is a user with a name of 'Jaime Lannister' and a password of '\$2b\$12\$56vz7w1w0.ETSRI1vq1zuc./9488gb1uPTXcahDxiIdgyC3PS8XCUK'. The fourth document is a user with a name of 'Catelyn Stark' and a password of '\$2b\$12\$5f1a7H5H1zKNFX24/FTer0GJxo2xvW7XL.q1fQCr8CwOxk.mZw5'. The fifth document is a user with a name of 'Cersei Lannister' and a password of '\$2b\$12\$5fExJgr7CLhKCa.oUsB9seub8mqH2k3CFZ8heMc8CeIX0ZFeTKP8m'. The sixth document is a user with a name of 'Daenerys Targaryen' and a password of '\$2b\$12\$2zpbW8dRytemLCTFFKduHenr2NZ.rvxIKuYMAMLTfaUShvb3.G3q'.

```
{ "_id": ObjectId("59b99db4cfa9a34dcd7885b6"), "name": "Ned Stark", "email": "sean_bean@gameofthron.es", "password": "$2b$12$UREFwsUoyFBCRqGMK8z08HM/3LhgUCMNI29R3AqMUQ74cr131VUu" }
```

```
{ "_id": ObjectId("59b99db4cfa9a34dcd7885b7"), "name": "Robert Baratheon", "email": "mark_addy@gameofthron.es", "password": "$2b$12$y6qxL69LZpMA2xV0huPn50Zd.VURVxz7wgDLY3pn0Bs7u251Z032y" }
```

```
{ "_id": ObjectId("59b99db5cfa9a34dcd7885b8"), "name": "Jaime Lannister", "email": "misho1aj_coster-walldau@gameofthron.es", "password": "$2b$12$56vz7w1w0.ETSRI1vq1zuc./9488gb1uPTXcahDxiIdgyC3PS8XCUK" }
```

```
{ "_id": ObjectId("59b99db5cfa9a34dcd7885b9"), "name": "Catelyn Stark", "email": "michelle_fatrlay@gameofthron.es", "password": "$2b$12$5f1a7H5H1zKNFX24/FTer0GJxo2xvW7XL.q1fQCr8CwOxk.mZw5" }
```

```
{ "_id": ObjectId("59b99db5cfa9a34dcd7885ba"), "name": "Cersei Lannister", "email": "lena_headey@gameofthron.es", "password": "$2b$12$5fExJgr7CLhKCa.oUsB9seub8mqH2k3CFZ8heMc8CeIX0ZFeTKP8m" }
```

```
{ "_id": ObjectId("59b99db6cfa9a34dcd7885bb"), "name": "Daenerys Targaryen", "email": "merlita_clarke@gameofthron.es", "password": "$2b$12$2zpbW8dRytemLCTFFKduHenr2NZ.rvxIKuYMAMLTfaUShvb3.G3q" }
```

## S9.01. Consultes amb MongoDB

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Quants cinemes hi ha en l'estat de Califòrnia?

169.

The screenshot shows the MongoDB Compass interface. At the top, a query filter is set to `{ "location.address.state": "CA" }`. Below the query bar, there are buttons for **ADD DATA**, **EXPORT DATA**, **UPDATE**, and **DELETE**. The results pane displays a list of 8 theater documents. Each document contains an `_id`, a `theaterId`, and a `location` object. The `location` object contains `address` and `geo` fields. The documents are sorted by `theaterId` in ascending order.

Document
<code>{ "_id": ObjectId("59a47286cfa9a3a73e51e72e"), "theaterId": 1008, "location": { "address": { "city": "San Francisco", "state": "CA", "zip": "94102" }, "geo": { "type": "Point", "coordinates": [ -122.4194, 37.7749 ] } } }</code>
<code>{ "_id": ObjectId("59a47286cfa9a3a73e51e734"), "theaterId": 1009, "location": { "address": { "city": "San Francisco", "state": "CA", "zip": "94102" }, "geo": { "type": "Point", "coordinates": [ -122.4194, 37.7749 ] } } }</code>
<code>{ "_id": ObjectId("59a47286cfa9a3a73e51e737"), "theaterId": 1010, "location": { "address": { "city": "San Francisco", "state": "CA", "zip": "94102" }, "geo": { "type": "Point", "coordinates": [ -122.4194, 37.7749 ] } } }</code>
<code>{ "_id": ObjectId("59a47286cfa9a3a73e51e739"), "theaterId": 1011, "location": { "address": { "city": "San Francisco", "state": "CA", "zip": "94102" }, "geo": { "type": "Point", "coordinates": [ -122.4194, 37.7749 ] } } }</code>
<code>{ "_id": ObjectId("59a47286cfa9a3a73e51e73a"), "theaterId": 1019, "location": { "address": { "city": "San Francisco", "state": "CA", "zip": "94102" }, "geo": { "type": "Point", "coordinates": [ -122.4194, 37.7749 ] } } }</code>
<code>{ "_id": ObjectId("59a47286cfa9a3a73e51e73b"), "theaterId": 101, "location": { "address": { "city": "San Francisco", "state": "CA", "zip": "94102" }, "geo": { "type": "Point", "coordinates": [ -122.4194, 37.7749 ] } } }</code>
<code>{ "_id": ObjectId("59a47286cfa9a3a73e51e73c"), "theaterId": 1021, "location": { "address": { "city": "San Francisco", "state": "CA", "zip": "94102" }, "geo": { "type": "Point", "coordinates": [ -122.4194, 37.7749 ] } } }</code>
<code>{ "_id": ObjectId("59a47286cfa9a3a73e51e73d"), "theaterId": 1020, "location": { "address": { "city": "San Francisco", "state": "CA", "zip": "94102" }, "geo": { "type": "Point", "coordinates": [ -122.4194, 37.7749 ] } } }</code>

Quin va ser el primer usuari/ària en registrar-se?

Ned Stark.

The screenshot shows the MongoDB Compass interface. At the top, a query filter is set to `{ "field": "value" }`. Below the query bar, there are buttons for **EXPLAIN**, **RESET**, **FIND**, and **Options**. The results pane displays a single document for the first user. The document contains an `_id`, a `name`, an `email`, and a `password`.

Document
<code>{ "_id": ObjectId("59b99db4cfa9a34dc7885b6"), "name": "Ned Stark", "email": "sean_bean@gameofthron.es", "password": "52b5125UREFwsRuoyF8CRqGNR0Lz00HM/JLhgUCNNI29R3AqMUQ74crL31Vu" }</code>

## S9.01. Consultes amb MongoDB

Álvaro Míguez

Quantes pel·lícules de comèdia hi ha en la nostra base de dades?

7024.

{ "genres": "Comedy" }

Generate query ⚙️ Explain Reset Find

ADD DATA EXPORT DATA UPDATE DELETE

1 - 20 of 7024

```
{
  "_id": ObjectId("573a1390f29313caabcd4803"),
  "plot": "Cartoon figures announce, via comic strip balloons, that they will mov...",
  "genres": Array (3)
  "runtime": 7
  "cast": Array (1)
  "num_mflix_comments": 1
  "poster": "https://m.media-amazon.com/images/M/MV5BYzg2NjNhNTctMjUxMjU0ZWU4LWl3Zj_-..."
  "title": "Winsor McCay, the Famous Cartoonist of the N.Y. Herald and His Moving ..."
  "fullplot": "Cartoonist Winsor McCay agrees to create a large set of drawings that ..."
  "languages": Array (1)
  "released": 1911-04-08T00:00:00.000+00:00
  "directors": Array (2)
  "writers": Array (2)
  "awards": Object
  "lastupdated": "2015-08-29 01:09:03.030000000"
  "year": 1911
  "imdb": Object
  "countries": Array (1)
  "type": "movie"
  "tomatoes": Object
}
```

```
{
  "_id": ObjectId("573a1390f29313caabcd50e5"),
  "plot": "The cartoonist, Winsor McCay, brings the Dinosaur back to life in th...",
  "genres": Array (3)
  "runtime": 12
  "cast": Array (3)
  "num_mflix_comments": 1
  "poster": "https://m.media-amazon.com/images/M/MV5BMTQxNzI4ODQ3NF5BMl5BanBnXkFtZT_-..."
  "title": "Gertie the Dinosaur"
  "fullplot": "Winsor Z. McCay bets another cartoonist that he can animate a dinosaur..."
  "languages": Array (1)
  "released": 1914-09-15T00:00:00.000+00:00
  "directors": Array (1)
  "writers": Array (1)
  "awards": Object
  "lastupdated": "2015-08-18 01:03:15.313000000"
}
```

### - Exercici 2

Mostra'm tots els documents de les pel·lícules produïdes en 1932, però que el gènere sigui drama o estiguin en francès.

{ "year": 1932, "sort": [ { "countries": "France" }, { "genres": "Drama" } ] }

Generate query ⚙️ Explain Reset Find

ADD DATA EXPORT DATA UPDATE DELETE

1 - 17 of 17

```
{
  "_id": ObjectId("573a1391f29313caabcd9458"),
  "plot": "A young artist draws a face at a canvas on his easel. Suddenly the mou...",
  "runtime": 55
  "rated": "UNRATED"
  "cast": Array (4)
  "num_mflix_comments": 1
  "poster": "https://m.media-amazon.com/images/M/MV5BYWY3ODE5ZWUyYjlmYi00NjA4LTk4ZW_-..."
  "title": "The Blood of a Poet"
  "lastupdated": "2015-09-16 13:13:05.537000000"
  "languages": Array (1)
  "released": 2010-05-20T00:00:00.000+00:00
  "directors": Array (1)
  "writers": Array (1)
  "awards": Object
  "wins": 1
  "nominations": 0
  "text": "1 win."
  "year": 1932
  "imdb": Object
  "rating": 7.5
  "votes": 3903
  "id": 21331
  "countries": Array (1)
  "type": "movie"
  "tomatoes": Object
}
```



Álvaro Míguez

Quants cinemes hi ha en cada codi postal situats dins de l'estat Washington D. C. (DC)?

{ "location.address.state": "DC" }

Generate query +

Explain

Reset

ADD DATA

EXPORT DATA

UPDATE

DELETE

1 - 3 of 3

\_id: ObjectId('59a47286cfa9a3a73e51e785')

theaterId: 1092

location: Object

- address: Object
  - street1: "3100 14th St Nw"
  - city: "Washington"
  - state: "DC"
  - zipcode: "20010"
- geo: Object

\_id: ObjectId('59a47287cfa9a3a73e51ec33')

theaterId: 801

location: Object

- address: Object
  - street1: "4500 Wisconsin Ave Nw"
  - city: "Washington"
  - state: "DC"
  - zipcode: "20016"
- geo: Object

\_id: ObjectId('59a47287cfa9a3a73e51ecd8')

theaterId: 8500

location: Object

- address: Object
  - street1: "50 Massachusetts Avenue NE"
  - street2: null
  - city: "Washington"
  - state: "DC"
  - zipcode: "20002"
- geo: Object

## Álvaro Míguez

- Exercici 1

Animal House, Blues Brothers, An American Werewolf in London, Trading Places

Generate query
Explain

```
{
  "$and": [
    { "directors": "John Landis" },
    { "imdb.rating": { "$gte": 7.5, "$lte": 8 } }
  ]
}
```

---

+ ADD DATA ▾
 EXPORT DATA ▾
 UPDATE
 DELETE

---

```
_id: ObjectId('573al397f29313caabce6d94')
fullplot: "Faber College has one frat house so disreputable it will take anyone. ..."
imdb: Object
year: 1978
plot: "At a 1962 college, Dean Vernon Wormer is determined to expel the entire..."
genres: Array (1)
rated: "R"
metacritic: 82
title: "Animal House"
lastupdated: "2015-09-13 00:02:47.803000000"
languages: Array (2)
writers: Array (3)
type: "movie"
tomatoes: Object
poster: "https://m.media-amazon.com/images/M/MV5BM2MjZDQ4MTYtOGJkM00OTg5LWI1ZT..._?"
num_flix_comments: 1
released: 1978-07-28T00:00:00+00:00
awards: Object
countries: Array (1)
cast: Array (4)
directors: Array (1)
runtime: 109

_id: ObjectId('573al397f29313caabce76f7')
plot: "Jake Blues, just out from prison, puts together his old band to save t..."
genres: Array (3)
runtime: 133
rated: "R"
cast: Array (4)
num_flix_comments: 1
poster: "https://m.media-amazon.com/images/M/MV5BYTdLMDExOGUyNzIzM0MjY5LWE1NT..._?"
title: "The Blues Brothers"
```

## S9.01. Consultes amb MongoDB

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### - Exercici 2

Mostra en un mapa la ubicació de tots els teatres de la base de dades.

