

Sprint 5

Nivell 1

Crea una base de dades amb MongoDB utilitzant com a col·leccions els arxius adjunts.

The screenshot shows the MongoDB Compass interface. On the left, the 'CONNECTIONS (1)' sidebar shows a connection to 'localhost:27017' with a folder named 'Sprint5' expanded, revealing sub-folders: 'comments', 'movies', 'sessions', 'theaters', 'users', 'admin', 'config', and 'local'. The main panel displays the 'localhost:27017' database with a 'Sort by' dropdown set to 'Database Name'. Below this, four database entries are listed:

Database Name	Storage size	Collections	Indexes
admin	20.48 kB	1	1
config	4.10 kB	1	2
local	20.48 kB	1	1
Sprint5	28.52 MB	5	5

Exercici 1

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

>_MONGOSH



```
> use Sprint5
< switched to db Sprint5
> db["comments"].find().sort({date:1}).limit(2)
< {
  _id: ObjectId('5a9427648b0beeb695e67e'),
  name: 'Mercedes Tyler',
  email: 'mercedes_tyler@fakegmail.com',
  movie_id: ObjectId('573a1399f29313caabcec3ce'),
  text: 'Optio totam dolores magni. Enim ratione fuga tempora voluptatum est cumque animi. Quia nam doloribus corrupti id voluptate esse. Te
  date: 1970-01-01T01:07:09.000Z
}
{
  _id: ObjectId('5a9427658b0beeb6969efe'),
  name: 'Jon Snow',
  email: 'kit_harington@gameofthron.es',
  movie_id: ObjectId('573a13a4f29313caabd117df'),
  text: 'Dolorem animi tempora ullam quas. Iusto nobis reprehenderit aspernatur cupiditate a tempore. Commodi alias expedita dolore explicab
  date: 1970-01-01T09:37:49.000Z
}
Sprint5>
```

Quants usuaris tenim registrats?

```
> use Sprint5
< switched to db Sprint5
> db["users"].find().count()
< 185
```

Quants cinemes hi ha en l'estat de Califòrnia?

```
>_MONGOSH ⓘ
> use Sprint5
< switched to db Sprint5
> db["theaters"].find({ "location.address.city": "California" }).count()
< 1
Sprint5>
```

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

```
>_MONGOSH ⓘ
> db["users"].find().sort({_id: -1}).limit(1)
< {
  _id: ObjectId('5db1c37e4a68c31f10cf0a9f'),
  name: 'foo',
  email: 'foobaz@bar.com',
  password: 'foobar',
  preferences: {}
}
Sprint5> |
```

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

>_MONGOSH

```
> let genero = "Comedy";

db.movies.find({ genres: genero }).count();
< 7024
Sprint5>|
```

Exercici 2

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

>_MONGOSH

```
> db.movies.find({year: 1932, $or: [{ genres: "Drama" }, { languages: "French" }]} )
< {
  _id: ObjectId('573a1391f29313caabcd9458'),
  plot: 'A young artist draws a face at a canvas on his easel. Suddenly the mouth on the drawing comes into life and starts talking. The art
runtime: 55,
rated: 'UNRATED',
cast: [
  'Enrique Rivero',
  'Elizabeth Lee Miller',
  'Pauline Carton',
  'Odette Talazac'
],
num_mflix_comments: 1,
poster: 'https://m.media-amazon.com/images/M/MV5BYWY30DE5ZWEtYjlmYi00NjA4LTk4ZWYtMzBhZDE5MjY0YTYxXkEyXkFqcGdeQXVyNzI4MDMyMTU@._V1_SY1000_S
title: 'The Blood of a Poet',
lastupdated: '2015-09-16 13:13:05.537000000',
languages: [
  'French'
],
released: 2010-05-20T00:00:00.000Z,
```

Exercici 3

Mostra'm tots els documents de pel·lícules estatunidenques que tinguin entre 5 i 9 premis que van ser produïdes entre 2012 i 2014.

>_MONGOSH



```
> db.movies.find({countries: "USA", "awards.wins": { $gte: 5, $lte: 9 }, year: { $gte: 2012, $lte: 2014 }})
< {
  _id: ObjectId('573a13acf29313caabd29366'),
  fullplot: "The manager of the negative assets sector of Life magazine, Walter Mitty, has been working for sixteen years for the magazine a
  imdb: {
    rating: 7.4,
    votes: 211230,
    id: 359950
  },
  year: 2013,
  plot: 'When his job along with that of his co-worker are threatened, Walter takes action in the real world embarking on a global journey t
  genres: [
    'Adventure',
    'Comedy',
    'Drama'
  ],
  rated: 'PG',
  metacritic: 54,
  title: 'The Secret Life of Walter Mitty',
  lastupdated: '2015-08-31 00:10:51.747000000',
  languages: [
    'English',
```

Nivell 2

Exercici 1

Compte quants comentaris escriu un usuari/ària que utilitza "GAMEOFTHRON.ES" com a domini de correu electrònic.

```
>_MONGOSH
> use Sprint5
< switched to db Sprint5
> db["users"].find({email: { $regex: "@gameofthron\\.es$" }}).count()
< 83
Sprint5>|
```

Exercici 2

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

```
>_MONGOSH
> db.theaters.aggregate([{$match: {"location.address.state": "DC"}},
  {$group: {_id: "$location.address.zipcode", totalCinemes: { $sum: 1 }}}])
< {
  _id: '20016',
  totalCinemes: 1
}
{
  _id: '20010',
  totalCinemes: 1
}
{
  _id: '20002',
  totalCinemes: 1
}
```

Nivell 3

Exercici 1

Troba totes les pel·lícules dirigides per John Landis amb una puntuació IMDb (Internet Movie Database) d'entre 7,5 i 8.

>_MONGOSH



> use Sprint5

< switched to db Sprint5

> db["movies"].find({directors: "John Landis", "imdb.rating": { \$gte: 7.5, \$lte: 8 }})

< {

_id: ObjectId('573a1397f29313caabce6d94'),

fullplot: "Faber College has one frat house so disreputable it will take anyone. It has a second one full of white, anglo-saxon, rich young

imdb: {

rating: 7.6,

votes: 84834,

id: 77975

},

year: 1978,

plot: 'At a 1962 college, Dean Vernon Wormer is determined to expel the entire Delta Tau Chi Fraternity, but those trouble-makers have other

genres: [

'Comedy'

],

rated: 'R',

metacritic: 82,

title: 'Animal House',

lastupdated: '2015-09-13 00:02:47.803000000',

languages: [

'English',

'Italian'

],