

# TASCA S9.01. Consultes amb MongoDB

## Nivell 1

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

### - Exercici 1

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

**`db.comments.find().limit(2)`**

```
> db.comments.find().limit(2)
< {
  _id: ObjectId('5a9427648b0beeb69579cc'),
  name: 'Andrea Le',
  email: 'andrea_le@fakegmail.com',
  movie_id: ObjectId('573a1390f29313caabcd418c'),
  text: 'Rem officiis eaque repellendus amet eos doloribus. Porro dolor voluptatum voluptates neque culpa molestias. Voluptate unde nulla temporibus
  date: 2012-03-26T23:20:16.000Z
}
{
  _id: ObjectId('5a9427648b0beeb69579cf'),
  name: 'Greg Powell',
  email: 'greg_powell@fakegmail.com',
  movie_id: ObjectId('573a1390f29313caabcd41b1'),
  text: 'Tenetur dolorum molestiae ea. Eligendi praesentium unde quod porro. Commodi nisi sit placeat rerum vero cupiditate neque. Dolorum nihil ver
  date: 1987-02-10T00:29:36.000Z
}
Cinema >
```

- Quants usuaris tenim registrats?

**`db.users.countDocuments()`**

```
> db.users.countDocuments()
< 185
Cinema >
```

- Quants cinemes hi ha en l'estat de Califòrnia?

**`db.theaters.countDocuments({ "location.address.city": "California" })`**

```
> db.theaters.countDocuments({ "location.address.city": "California" })
< 1
> db.theaters.find({ "location.address.city": "California" })
< {
  _id: ObjectId('59a47286cfa9a3a73e51e72d'),
  theaterId: 1003,
  location: {
    address: {
      street1: '45235 Worth Ave.',
      city: 'California',
      state: 'MD',
      zipcode: '20619'
    },
    geo: {
      type: 'Point',
      coordinates: [
        -76.512016,
        38.29697
      ]
    }
  }
}
Cinema >
```

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

**`db.users.find().sort({ registeredAt: 1 }).limit(1)`**

```
> db.users.find().sort({ registeredAt: 1 }).limit(1)
< {
  _id: ObjectId('59b99db4cfa9a34dcd7885b6'),
  name: 'Ned Stark',
  email: 'sean_bean@gameofthron.es',
  password: '$2b$12$UREFwsRUoyF0CRqGNK0Lz00HM/jLhgUCNNIJ9RJAqMUQ74cr1J1Vu'
}
```

Cinema >

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

**`db.movies.countDocuments({ genres: "Comedy" })`**

```
> db.movies.countDocuments({ genres: "Comedy" })
< 7024
```

## - Exercici 2

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

**`db.movies.find({ year: 1932, $or: [`  
**`{ genres: "Drama" },`  
**`{ languages: "French" }`  
**`]`  
**`})`**********

The screenshot shows a MongoDB query interface. The query editor contains the following query:

```
{
  year: 1932,
  $or: [
    { genres: "Drama" },
    { languages: "French" }
  ]
}
```

Below the query editor, there are buttons for 'Generate query', 'Explain', 'Reset', 'Find', and 'Options'. The 'Find' button is highlighted. Below these buttons is a toolbar with 'ADD DATA', 'EXPORT DATA', 'UPDATE', 'DELETE', and a help icon. The results are displayed in a list view, showing two movie documents. The first document is 'The Blood of a Poet' and the second is 'Junta is hated by the people in the village where she lives, especiall...'.

## - 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.

```
db.movies.find({
  countries: "USA",
  "awards.wins": { $gte: 5, $lte: 9 },
  year: { $gte: 2012, $lte: 2014 }
})
```

```
> 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 and has 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 that turn
  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',
    'Spanish',
    'Icelandic'
  ],
  writers: [
    'Steve Conrad (screenplay)',
```

## Nivell 2

## - Exercici 1

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

```
db.comments.countDocuments({
  email: /@gameofthron\.es$/i
})
```

```
> db.comments.countDocuments({
  email: /@gameofthron\.es$/i
})
< 22841
```

## - Exercici 2

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

```
db.theaters.aggregate([
  { $match: { "location.address.state": "DC" } },
  {
    $group: {
      _id: "$location.zipcode",
      count: { $sum: 1 }
    }
  }
])
```

```
> db.theaters.aggregate([
  { $match: { "location.address.state": "DC" } },
  {
    $group: {
      _id: "$location.zipcode",
      count: { $sum: 1 }
    }
  }
])
< {
  _id: null,
  count: 3
}
Cinema >
```

## 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.

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

```
> 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 men wh",
  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 plans",
  genres: [
    'Comedy'
  ],
  rated: 'R',
  metacritic: 82,
  title: 'Animal House',
  lastupdated: '2015-09-13 00:02:47.803000000',
  languages: [
    'English',
    'Italian'
  ],
  writers: [
    'Harold Ramis',
    'Douglas Kenney',
    'Chris Miller'
  ],
  type: 'movie',
```

## - Exercici 2

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

