

# Nivell 1

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

localhost:27017 > cinema

Open MongoDB shell Create collection Refresh

Sort by Collection Name

View

**comments**

Storage size: 6.39 MB  
Documents: 50 K  
Avg. document size: 284.00 B  
Indexes: 1  
Total index size: 811.01 kB

**movies**

Storage size: 4.35 MB  
Documents: 24 K  
Avg. document size: 1.60 kB  
Indexes: 1  
Total index size: 290.82 kB

**sessions**

Storage size: 4.10 kB  
Documents: 1  
Avg. document size: 540.00 B  
Indexes: 1  
Total index size: 4.10 kB

**theaters**

Storage size: 4.10 kB  
Documents: 1.6 K  
Avg. document size: 223.00 B  
Indexes: 1  
Total index size: 4.10 kB

**users**

Storage size: 4.10 kB  
Documents: 185  
Avg. document size: 159.00 B  
Indexes: 1  
Total index size: 4.10 kB

## - Exercici 1

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

```
1 [
2   {
3     $limit: 2
4   }
5 ]
```

PIPELINE OUTPUT

Sample of 2 documents

OUTPUT OPTIONS

```
{
  "_id": ObjectId("5a9427648b0beebe69579cc"),
  "name": "Andrea Le",
  "email": "andrea_le@fakegmail.com",
  "movie_id": ObjectId("573a1390f29313caabdc418c"),
  "text": "Rem officiis eaque repellendus amet eos doloribus. Porro dolor volupta...",
  "date": 2012-03-26T23:20:16.000+00:00
}
```

```
{
  "_id": ObjectId("5a9427648b0beebe69579cf"),
  "name": "Greg Powell",
  "email": "greg_powell@fakegmail.com",
  "movie_id": ObjectId("573a1390f29313caabdc41b1"),
  "text": "Tenetur dolorum molestiae ea. Eligendi praesentium unde quod porro. Co...",
  "date": 1987-02-10T00:29:36.000+00:00
}
```

- Quants usuaris tenim registrats?

```
1 [
2   {
3     $count:
4       "name"
5   }
6 ]
```

PIPELINE OUTPUT

Sample of 1 document

```
{
  "name": 185
}
```

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

```
1 [
2   {
3     $match:
4     {
5       "location.address.state": "CA"
6     }
7   },
8   {
9     $count:
10    "theatherId"
11  }
12 ]
```

#### PIPELINE OUTPUT

Sample of 1 document

theatherId : 169

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

```
1 [
2   {
3     $sort:
4     {
5       _id: 1
6     }
7   },
8   {
9     $limit:
10    1
11  }
12 ]
```

#### PIPELINE OUTPUT

Sample of 1 document

OUTPUT OPTIONS ▾

\_id: ObjectId('59b99db4cfa9a34dcd7885b6')  
name : "Ned Stark"  
email : "sean\_bean@gameofthron.es"  
password : "\$2b\$12\$UREFwsRUoyF0CRqGNK0Lz00HM/jLhgUCNNI39RJ...

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

```
1 [
2   {
3     $match:
4     {
5       genres: "Comedy"
6     }
7   },
8   {
9     $count:
10    "plot"
11  }
12 ]
```

#### PIPELINE OUTPUT

Sample of 1 document

plot : 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.

```
1 [
2   {
3     $match:
4     {
5       year: 1932
6     }
7   },
8   {
9     $match:
10    {
11      $or: [
12        {
13          genres: "Drama"
14        },
15        {
16          languages: "French"
17        }
18      ]
19    }
20  }
21 ]
```

PIPELINE OUTPUT

Sample of 10 documents

OUTPUT OPTIONS

```
_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/MV5BYWY30DE5ZWETyJlmyi00NjA4.
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
year: 1932
imdb: Object
```

## - 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.

```
2 {
3   $match:
4   {
5     countries: "USA"
6   }
7 },
8 {
9   $match:
10  {
11    "awards.wins": {
12      $gte: 5,
13      $lte: 9
14    }
15  }
16 },
17 {
18   $match:
19   {
20     year: {
21       $gte: 2012,
22       $lte: 2014
23     }
24   }
25 }
```

PIPELINE OUTPUT

Sample of 10 documents

OUTPUT OPTIONS

```
_id: ObjectId('573a13acf29313caabd29366')
fullplot: "The manager of the negative assets sector of
Life magazine, Walter Mit..."
imdb: Object
year: 2013
plot: "When his job along with that of his co-worker are
threatened, Walter t..."
genres: Array (3)
rated: "PG"
metacritic: 54
title: "The Secret Life of Walter Mitty"
lastupdated: "2015-08-31 00:10:51.747000000"
languages: Array (3)
writers: Array (3)
type: "movie"
tomatoes: Object
poster: "https://m.media-
amazon.com/images/M/MV5BODYwNDYxNDk1Nl5BMl5BanBn
num_mflix_comments: 1
```

## Nivell 2

### - Exercici 1

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

```
1  [
2    {
3      $match:
4        {
5          email: {
6            $regex: "gameofthron.es"
7          }
8        }
9    },
10   {
11     $count:
12       "text"
13   }
14 ]
```

#### PIPELINE OUTPUT

Sample of 1 document

text : 22841

### - Exercici 2

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

```
1  [
2    {
3      $match: {
4        "location.address.state": "DC"
5      }
6    },
7    {
8      $group:
9        {
10         _id: "$location.address.zipcode",
11         count: {
12           $sum: 1
13         }
14       }
15   }
16 ]
```

#### PIPELINE OUTPUT

Sample of 3 documents

\_id: "20016"  
count : 1

\_id: "20010"  
count : 1

\_id: "20002"  
count : 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.

```
1 ▼ [
2 ▼ {
3 ▼   $match: {
4     directors: "John Landis"
5   }
6 },
7 ▼ {
8 ▼   $match: {
9 ▼     "imdb.rating": {
10       $gte: 7.5,
11       $lte: 8
12     }
13   }
14 }
15 ]
```

PIPELINE OUTPUT

Sample of 4 documents


```
_id: ObjectId('573a1397f29313caabce6d94')
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"
```

## - Exercici 2

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

Teniendo los datos de geolocalización en la tabla de Theaters en el campo geo/coordinates, se puede consultar directamente el mapa en la pestaña Schema/Location/Geo:

Documents 1.6K Aggregations Schema Indexes 1 Validation

Type a query: { field: 'value' } or [Generate query](#) 

Reset Analyze

This report is based on a sample of 1000 documents

geo  
coordinates

