

Tasca S5.01 Consultes amb MongoDB

Nivel 1

Bases de datos creadas:

The screenshot shows the MongoDB Compass interface. On the left, under 'CONNECTIONS (1)', the 'sprint5' database is expanded, showing collections: admin, config, local, sprint5, comments, movies, sessions, theaters, and users. The 'sprint5' collection is selected. The main panel displays statistics for five collections: comments, movies, sessions, theaters, and users. Each collection's statistics are shown in a card format with the following fields: Storage size, Documents, Avg. document size, Indexes, and Total index size.

Collection	Storage size	Documents	Avg. document size	Indexes	Total index size
comments	4.10 kB	50 K	284.00 B	1	4.10 kB
movies	4.10 kB	24 K	1.60 kB	1	4.10 kB
sessions	4.10 kB	1	540.00 B	1	4.10 kB
theaters	4.10 kB	1.6 K	223.00 B	1	4.10 kB
users	4.10 kB	185	159.00 B	1	4.10 kB

Ejercicio 1

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

```
> use sprint5
< switched to db sprint5
> db.comments.find().limit(2)
< {
  _id: ObjectId('5a9427648b0beebeb69579cc'),
  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
  date: 2012-03-26T23:20:16.000Z
}
{
  _id: ObjectId('5a9427648b0beebeb69579cf'),
  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
  date: 1987-02-10T00:29:36.000Z
}
sprint5>
```

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

```
> db.users.countDocuments()  
< 185  
sprint5> |
```

```
db.theaters.countDocuments({  
  "location.address.state": "CA"  
})
```

```
> db.theaters.countDocuments({  
  "location.address.state": "CA"  
})  
< 169  
sprint5>
```

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

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

```
db.movies.countDocuments({  
  genres:{  
    $in: [ 'Comedy' ]  
  }  
})
```

```
> db.movies.countDocuments({  
  genres:{  
    $in: [ 'Comedy' ]  
  }  
})  
< 7024  
sprint5>
```

Ejercicio 2

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

```
> db.movies.find({
  year:1932,
  $or: [
    { genres: { $in: ['Drama'] } },
    {languages: { $in: ['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 a
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/MV5BYWY3ODE5ZWEtYjlmYi00NjA4LTk4ZWYtMzBhZDE5MjY0VTYxXkEyXkFqcGdeQXVyNzI4MDMyMTU@._V1_SY1000
title: 'The Blood of a Poet',
lastupdated: '2015-09-16 13:13:05.537000000',
languages: [
  'French'
],
released: 2010-05-20T00:00:00.000Z,
directors: [
  'Jean Cocteau'
]
```

Activar Windows
Ve a Configuración para activar Windows.

```
db.movies.countDocuments({
  year:1932,
  $or: [
    { genres: { $in: ['Drama'] } },
    {languages: { $in: ['French'] }}
  ]
})
```

```

>
> db.movies.countDocuments({
  year:1932,
  $or: [
    { genres: {$in: ['Drama']} },
    {languages: {$in: ['French']} }
  ])
< 18
sprint5> |

```

Ejercicio 3

```

db.movies.find({
  countries:{ $in: ['USA'] },
  'awards.wins': { $gte: 5, $lte: 9 },
  year: { $gte: 2012, $lte: 2014 }
})

```

```

>_MONGOSH
> db.movies.find({
  countries:{ $in: ['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
  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
  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'
  ]
}

```

Activar Windows
Ve a Configuración para activar Windows.

```

db.movies.countDocuments({
  countries:{ $in: ['USA'] },

```

```
'awards.wins': { $gte: 5, $lte: 9 },
year: { $gte: 2012, $lte: 2014 }
})
```

```
> db.movies.countDocuments({
  countries:{ $in: ['USA'] },
  'awards.wins': { $gte: 5, $lte: 9 },
  year: { $gte: 2012, $lte: 2014 }
})
< 166
```

Nivel 2

Ejercicio 1

```
db.comments.countDocuments({
  email: /@GAMEOFTHRON\.ES/i
})
```

```
> db.comments.countDocuments({
  email: /@GAMEOFTHRON\.ES/i
})
< 22841
sprint5> |
```

Ejercicio 2

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

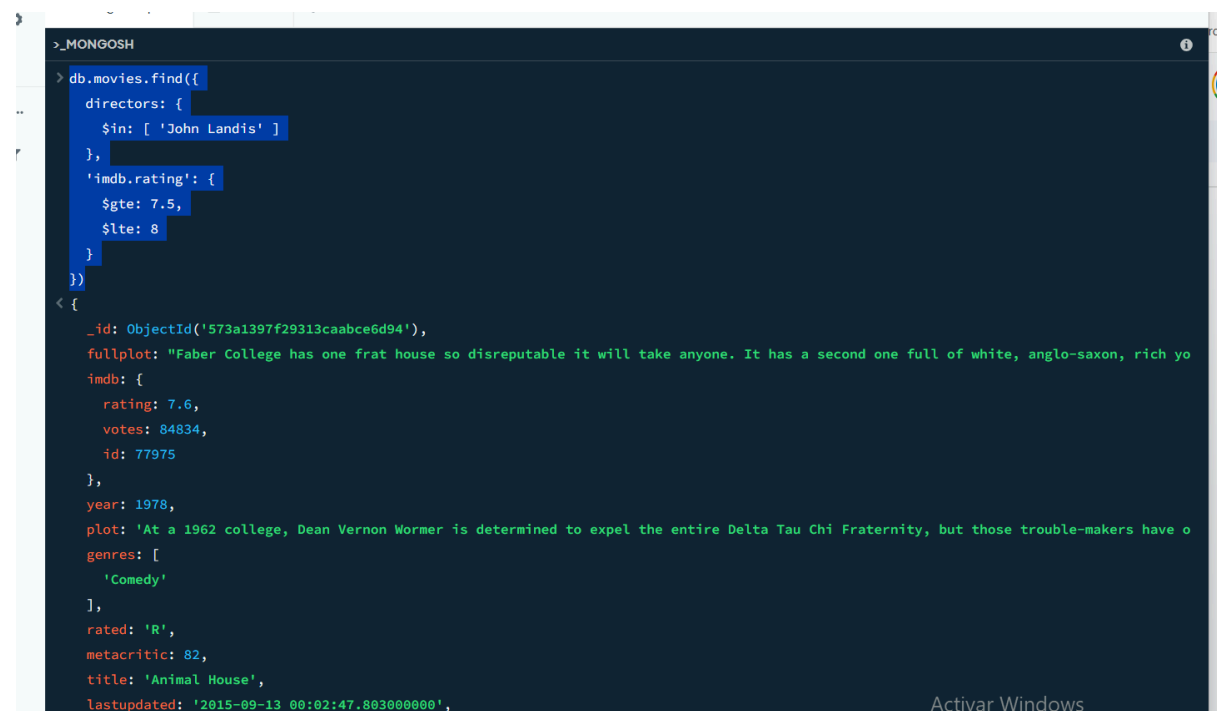
```
}  
}  
})
```

```
> db.theaters.aggregate([  
  {  
    $match: {  
      'location.address.state': 'DC'  
    }  
  },  
  {  
    $group: {  
      _id: '$location.address.zipcode',  
      'total_cines': { $sum: 1 }  
    }  
  }  
])  
< {  
  _id: '20016',  
  total_cines: 1  
}  
{  
  _id: '20002',  
  total_cines: 1  
}  
{  
  _id: '20010',  
  total_cines: 1  
}  
sprint5>
```

Nivel 3

Ejercicio 1

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



The screenshot shows a terminal window titled >_MONGOSH. The user has entered a MongoDB query to find movies directed by John Landis with an IMDb rating between 7.5 and 8. The terminal displays the result of the query, which is a single document for the movie 'Animal House'.

```
>_MONGOSH
> db.movies.find({
  directors: {
    $in: [ '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 yo
  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 o
  genres: [
    'Comedy'
  ],
  rated: 'R',
  metacritic: 82,
  title: 'Animal House',
  lastupdated: '2015-09-13 00:02:47.803000000',
}
```

```
db.movies.countDocuments({
  directors: {
    $in: [ 'John Landis' ]
  },
  'imdb.rating': {
    $gte: 7.5,
    $lte: 8
  }
})
```

```

> db.movies.countDocuments({
  directors: {
    $in: [ 'John Landis' ]
  },
  'imdb.rating': {
    $gte: 7.5,
    $lte: 8
  }
})
< 4
sprint5>

```

Ejercicio 2

He interpretado el ejercicio de dos formas. Mostrando las coordenadas de cada teatro y mostrando un \$map de cada localización.

Coordenadas:

```
db.theaters.find({}, { _id: 0, 'location.geo': 1 })
```

```

> db.theaters.find({}, { _id: 0, 'location.geo': 1 })
< {
  location: {
    geo: {
      type: 'Point',
      coordinates: [
        -93.24565,
        44.85466
      ]
    }
  }
}
{
  location: {
    geo: {
      type: 'Point',
      coordinates: [
        -76.512016,
        38.29697
      ]
    }
  }
}
{
  location: {
    geo: {
      type: 'Point',
      coordinates: [

```

...las últimas coordenadas:


```
>_MONGOSH
    ]
  }
}
{
  location: {
    geo: {
      type: 'Point',
      coordinates: [
        -72.583824,
        41.998211
      ]
    }
  }
}
{
  location: {
    geo: {
      type: 'Point',
      coordinates: [
        -96.608055,
        33.685692
      ]
    }
  }
}
Type "it" for more
sprint5>
```

\$map de localizaciones:

```
db.theaters.aggregate([
{
  $project: {
    title: 1,
    ubicacioTodos: {
      $map: {
        input: { $objectToArray: "$location.address" },
        as: "ubicació",
        in: "$$ubicació.v"
      }
    }
  }
}
])
```

```

> db.theaters.aggregate([
  {
    $project: {
      title: 1,
      ubicacionTodos: {
        $map: {
          input: { $objectToArray: "$location.address" },
          as: "ubicación",
          in: "$$ubicación.v"
        }
      }
    }
  }
])
< {
  _id: ObjectId('59a47286cfa9a3a73e51e72c'),
  ubicacionTodos: [
    '340 W Market',
    'Bloomington',
    'MN',
    '55425'
  ]
}
{
  _id: ObjectId('59a47286cfa9a3a73e51e72d'),
  ubicacionTodos: [
    '45235 Worth Ave.',
    'California',

```

```

>_MONGOSH
{
  _id: ObjectId('59a47286cfa9a3a73e51e72e'),
  ubicacionTodos: [
    '1621 E Monte Vista Ave',
    'Vacaville',
    'CA',
    '95688'
  ]
}
{
  _id: ObjectId('59a47286cfa9a3a73e51e72f'),
  ubicacionTodos: [
    '5072 Pinnacle Sq',
    'Birmingham',
    'AL',
    '35235'
  ]
}
{
  _id: ObjectId('59a47286cfa9a3a73e51e730'),
  ubicacionTodos: [
    '1900 E Rio Salado Pkwy',
    'Tempe',
    'AZ',
    '85281'
  ]
}
{

```

... los últimos datos:

```
>_MONGOSH
{
  _id: ObjectId('59a47286cfa9a3a73e51e73d'),
  ubicacioTodos: [
    '79220 Hwy 111',
    'La Quinta',
    'CA',
    '92253'
  ]
}
{
  _id: ObjectId('59a47286cfa9a3a73e51e73e'),
  ubicacioTodos: [
    '95 Elm St',
    'Enfield',
    'CT',
    '06082'
  ]
}
{
  _id: ObjectId('59a47286cfa9a3a73e51e73f'),
  ubicacioTodos: [
    '823 N Creek Dr',
    'Sherman',
    'TX',
    '75092'
  ]
}
Type "it" for more
sprint5>
```