

SPRINT 9

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MongoDB

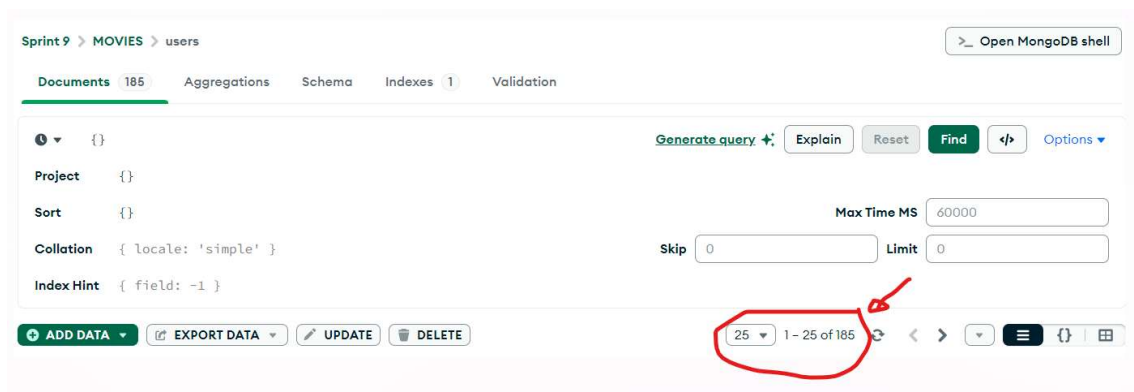
Nivell 1 – Exercici 1

1.a) 2 primers comentaris que hi ha en la base de dades:

```
>_MONGOSH
> use MOVIES
< switched to db MOVIES
> db["comments"].find().limit(2)
< {
  _id: ObjectId('5a9427648b0beebeb69579cc'),
  name: 'Andrea Le',
  email: 'andrea_le@fakegmail.com',
  movie_id: ObjectId('573a1390f29313caabcd418c'),
  text: 'Rem officiiis eaue 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
}
MOVIES>
```

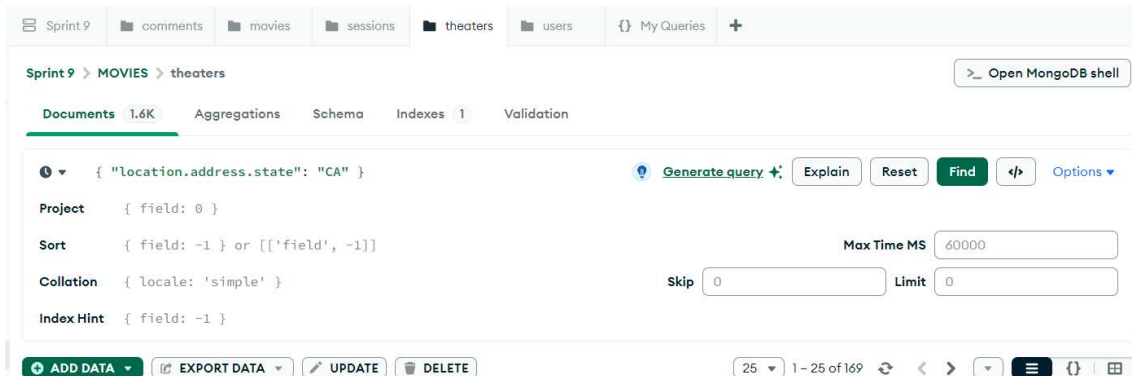
1.b) Quants usuaris tenim registrats?

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



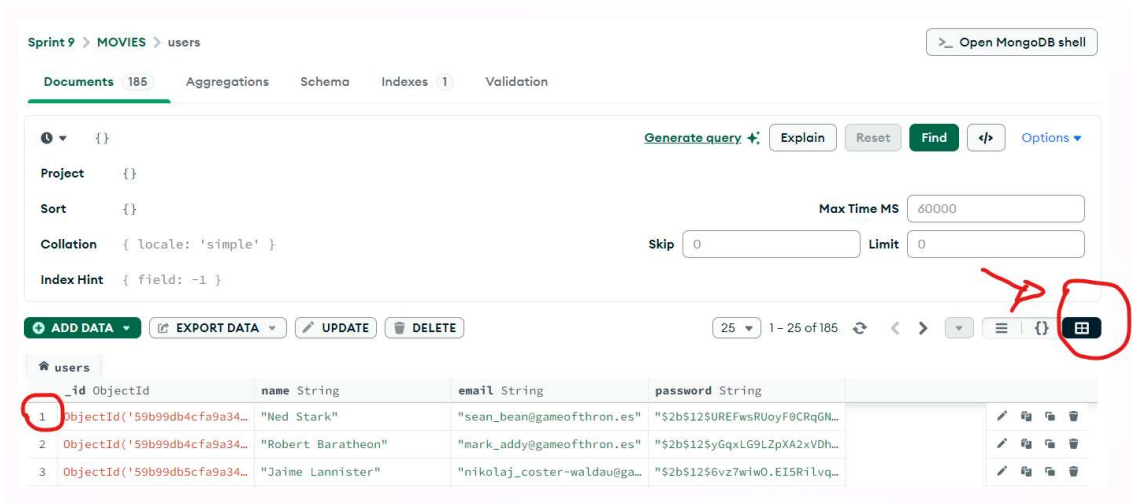
1.c) Quants cinemes hi ha en l'estat de Califòrnia?

```
>_MONGOSH
> use MOVIES
< switched to db MOVIES
> db["theaters"].count({ "location.address.state": "CA" })
< DeprecationWarning: Collection.count() is deprecated. Use countDocuments or estimatedDocumentCount.
< 169
MOVIES >
```



1.d) Quin va ser el primer usuari/ària en registrar-se?

Como la base de datos no cuenta con fecha de registro del usuario, asumimos que el primero en registrarse será el índice 1.



1.e) Quantes pel·lícules de comèdia hi ha en la nostra base de dades?

Documents 23.5K Aggregations Schema Indexes 1 Validation

{ "genres": "Comedy" }
 [Generate query](#) [Explain](#) [Reset](#) [Find](#) [Options](#)

Project { field: 0 }
 Sort { field: -1 } or [['field', -1]]
 Max Time MS 60000
 Collation { locale: 'simple' }
 Skip 0 Limit 0
 Index Hint { field: -1 }

[ADD DATA](#) [EXPORT DATA](#) [UPDATE](#) [DELETE](#)
25 1 - 25 of 7024

```

_id: ObjectId('573a1390f29313caabcd4803')
plot: "Cartoon figures announce, via comic strip balloons, that they will mov..."
genres: Array (3)
  0: "Animation"
  1: "Short"
  2: "Comedy"
runtime: 7
cast: Array (1)
  num_mflix_comments: 1
poster: "https://m.media-amazon.com/images/M/MV5BYzg2NjNhNTctMjUxMi00ZWU4LWl3Zj..."
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)
  
```

- Exercici 2

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

Sprint 9 > MOVIES > movies [Open MongoDB shell](#)

Documents 23.5K Aggregations Schema Indexes 1 Validation

{
 "year": 1932,
 "Sor": [
 { "genres": "Drama" },
 { "languages": "French" }
]
 }
 [Generate query](#) [Explain](#) [Reset](#) [Find](#) [Options](#)

Project { field: 0 }
 Sort { field: -1 } or [['field', -1]]
 Max Time MS 60000
 Collation { locale: 'simple' }
 Skip 0 Limit 0
 Index Hint { field: -1 }

[ADD DATA](#) [EXPORT DATA](#) [UPDATE](#) [DELETE](#)
25 1 - 18 of 18

```

_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/MV5BYWY3ODU5ZWU4LWl3Zj..."
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
  
```

- 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.

Sprint 9 > MOVIES > movies Open MongoDB shell

Documents 23.5K Aggregations Schema Indexes 1 Validation

Generate query Explain Reset Find Options

```
{
  "countries": "USA",
  "awards.wins": { "$gte": 5, "$lte": 9 },
  "year": { "$gte": 2012, "$lte": 2014 }
}
```

Project { field: 0 }

Sort { field: -1 } or [['field', -1]]

Collation { locale: 'simple' }

Index Hint { field: -1 }

Max Time MS 60000

Skip 0 Limit 0

ADD DATA EXPORT DATA UPDATE DELETE

25 1 - 25 of 166

Nivell 2

- Exercici 1

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

Sprint 9 > MOVIES > users Open MongoDB shell

Documents 185 Aggregations Schema Indexes 1 Validation

Generate query Explain Reset Find Options

```
{ "email": { "$regex": "@gameofthron\\.es$", "$options": "i" } }
```

Project {}

Sort {}

Collation { locale: 'simple' }

Index Hint { field: -1 }

Max Time MS 60000

Skip 0 Limit 0

ADD DATA EXPORT DATA UPDATE DELETE

25 1 - 25 of 83

```
{
  "_id": ObjectId('59b99db4cfa9a34dcd7885b6'),
  "name": "Ned Stark",
  "email": "sean_bean@gameofthron.es",
  "password": "$2b$12$UREFwsRUoyF0CRqGNK0Lz00HM/jLhgUCNNI39J3AqMUQ74crLJ1Vu"
}
```

```
{
  "_id": ObjectId('59b99db4cfa9a34dcd7885b7'),
  "name": "Robert Baratheon",
  "email": "mark_addy@gameofthron.es",
  "password": "$2b$12$yGqXLG9LZpXA2xVDhuPnS0Zd.VURVkvz7wgOLY3pn00s7u2S1Z032y"
}
```

```
{
  "_id": ObjectId('59b99db5cfa9a34dcd7885b8'),
  "name": "Jaime Lannister",
  "email": "nikolaj_coster-waldau@gameofthron.es",
  "password": "$2b$12$6vz7wiw0.EI5Rilvq1zUc./9480gb1uPtXcahDxIadgyC3PS8XCUC"
}
```

- Exercici 2

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

Hay tres códigos postales en DC, con un teatro en cada uno.

Sprint 9 > MOVIES > theaters

Documents 1.6K Aggregations Schema Indexes 1 Validation

Smatch Sgroup Generate aggregation + Explain Export Run Options

Untitled - modified SAVE + CREATE NEW EXPORT TO LANGUAGE PREVIEW STAGES TEXT WIZARD

Stage 1 \$match

```
1 {
2   "location.address.state": "DC"
3 }
```

Output after \$match stage (Sample of 3 documents)

```
{ "_id": ObjectId('59a47286cfa9a3a73e51e785'), "theaterId": 1092, "location": Object }
{ "_id": ObjectId('59a47287cfa9a3a73e51e786'), "theaterId": 801, "location": Object }
```

Stage 2 \$group

```
1 {
2   "_id": "$location.address.zipcode",
3   "totalCinemes": { "$sum": 1 }
4 }
```

Output after \$group stage (Sample of 3 documents)

```
{ "_id": "20016", "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.

Sprint 9 > MOVIES > movies

Documents 23.5K Aggregations Schema Indexes 1 Validation

Generate query + Explain Reset Find </> Options

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

Project { field: 0 }

Sort { field: -1 } or [['field', -1]]

Collation { locale: 'simple' }

Index Hint { field: -1 }

Max Time MS 60000

Skip 0 Limit 0

ADD DATA EXPORT DATA UPDATE DELETE

25 1-4 of 4

```
{
  "_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",
  "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/MV5BM2M2ZDA4MTYtOGRjMi00OTg5LWI1ZT..."
}
```

- Exercici 2

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

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

Generate query | Reset | Analyze | Options

The schema content is outdated and no longer in sync with the documents view. Press "Analyze" again to see the schema for the current query.

geo
coordinates

