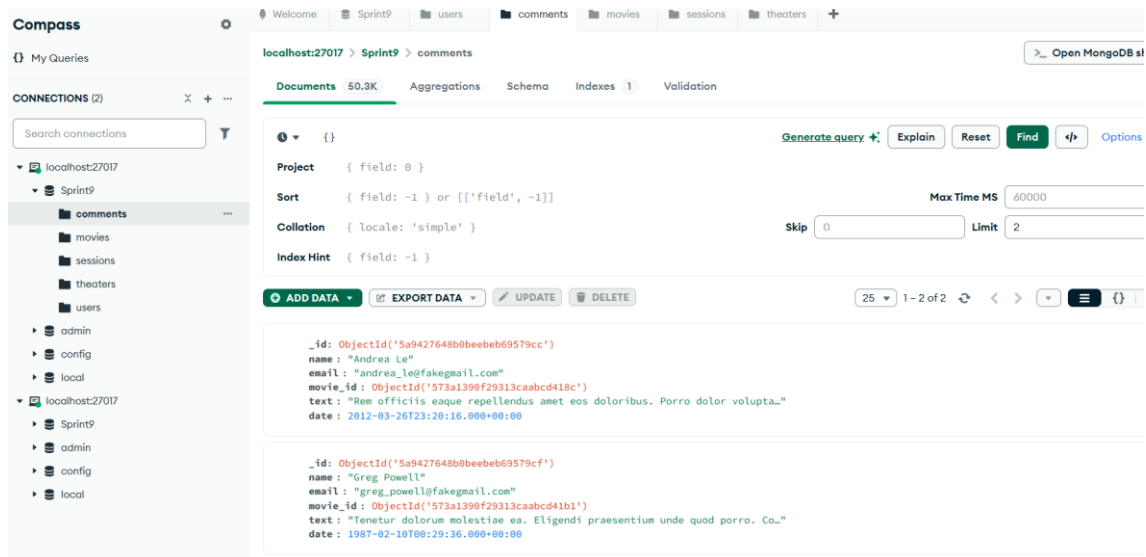


NIVELL 1

- Exercici 1

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



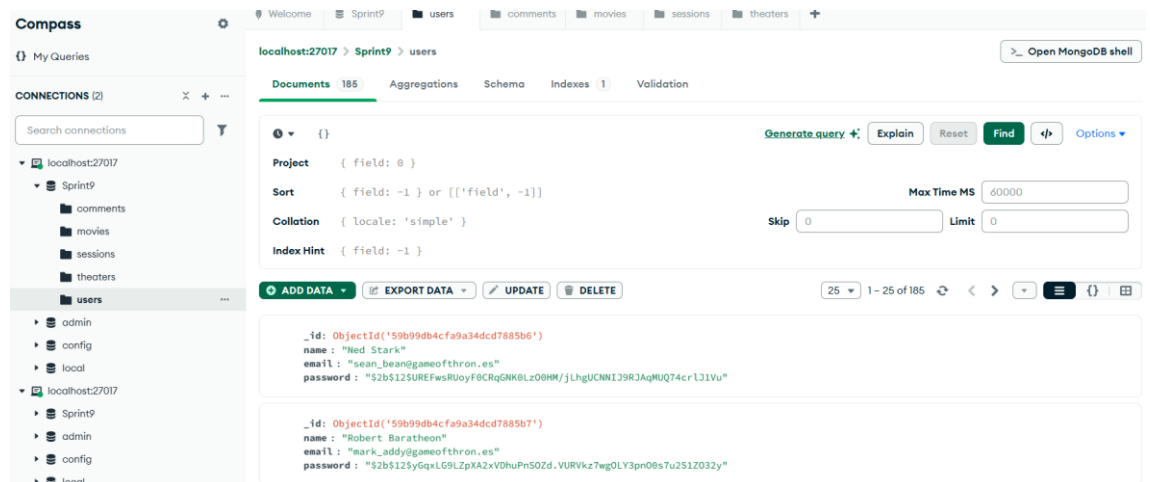
The screenshot shows the MongoDB Compass interface. On the left, the 'CONNECTIONS' panel lists the database 'localhost:27017' and the collection 'comments'. The main panel shows the 'Documents' tab for the 'comments' collection. The documents are sorted by '_id' in descending order. The first two documents are:

```
{ "_id": "ObjectId('5a9427648b0beebe69579cc')", "name": "Andrea Le", "email": "andrea_le@fakegmail.com", "movie_id": "ObjectId('573a1398f29313caabcd418c')", "text": "Rea officiis eaque repellendus amet eos doloribus. Porro dolor volupta...", "date": "2012-03-26T23:20:15.000+00:00" }
```

```
{ "_id": "ObjectId('5a9427648b0beebe69579cf')", "name": "Greg Powell", "email": "greg_powell@fakegmail.com", "movie_id": "ObjectId('573a1398f29313caabcd41b1')", "text": "Tenetur dolorum molestiae ea. Eligendi praesentium unde quod porro. Co...", "date": "1987-02-10T00:29:36.000+00:00" }
```

- Quants usuaris tenim registrats?

Tenim 185 usuaris (encara que se'n mostren 25)



The screenshot shows the MongoDB Compass interface. On the left, the 'CONNECTIONS' panel lists the database 'localhost:27017' and the collection 'users'. The main panel shows the 'Documents' tab for the 'users' collection. The documents are sorted by '_id' in descending order. The first two documents are:

```
{ "_id": "ObjectId('59b99db4cfa9a34dc7885b6')", "name": "Ned Stark", "email": "sean_bean@gameofthron.es", "password": "52b5125UREFwsRUoyF8CRqGNK0Lz08HM/jLhgUCNNI39R3AqMUQ74cr131Vu" }
```

```
{ "_id": "ObjectId('59b99db4cfa9a34dc7885b7')", "name": "Robert Baratheon", "email": "mark_addy@gameofthron.es", "password": "52b5125yGqeLG9LZpXA2xVDhuPns0Zd.VURVikz7wg0LY3pn0s7u251Z032y" }
```

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

Tenim 169:

localhost:27017 > Sprint9 > theaters

Documents 1.6K Aggregations Schema Indexes 1 Validation

Query: `{ "location.address.state": "CA" }` [Generate query](#) [Explain](#) [Reset](#) [Find](#)

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 169

```

_id: ObjectId('59a47286cfa9a3a73e51e72e')
theaterId: 1008
location: Object
  address: Object
    street1: "1621 E Monte Vista Ave"
    city: "Vacaville"
    state: "CA"
    zipcode: "95688"
  geo: Object
    type: "Point"
    coordinates: Array (2)
      0: -121.96328
      1: 38.367649
  
```

```

_id: ObjectId('59a47286cfa9a3a73e51e734')
theaterId: 1009
location: Object
  
```

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

localhost:27017 > Sprint9 > users

Documents 185 Aggregations Schema Indexes 1 Validation

Query: `{ }` [Generate query](#) [Explain](#) [Reset](#) [Find](#) [Options](#)

Project: `{ field: 0 }`

Sort: `{ "_id": 1 }` Max Time MS: 60000

Collation: `{ locale: 'simple' }` Skip: 0 Limit: 1

Index Hint: `{ field: -1 }`

ADD DATA EXPORT DATA UPDATE DELETE

25 1 - 1 of 1

```

_id: ObjectId('59b99db4cfa9a34dc7885b6')
name: "Ned Stark"
email: "sean_bean@gameofthron.es"
password: "$2b$12$UREFwsR0yF8CRqGNK0Lz0HHM/jLhgUCNNI39R3AqMUQ74cr131Vu"
  
```

“Ned Stark” va ser el primer usuari a enregistrar-se

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

Hi ha 7.024

The screenshot shows the MongoDB Compass interface. The 'Documents' tab is active, displaying a query: `{ "genres": "Comedy" }`. The query is explained, and the results are shown in a JSON format. The first document is:

```
{
  "_id": ObjectId('573a1390f29313caabcd4883'),
  "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/MV5BYzg2NjNhNTctMjUxM100ZWU4LWI3Zj...",
  "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.

Son 25 documents

The screenshot shows the MongoDB Compass interface. The 'Documents' tab is active, displaying a query: `{year: 1932}`. The query is explained, and the results are shown in a JSON format. The first document is:

```
{
  "_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/MV5BYWY3ODk5ZWUyYjY0NjA4LTk4ZW...",
  "title": "The Blood of a Poet"
  "lastupdated": "2015-09-16 13:13:05.537000000"
  "languages": Array (1)
    0: "French"
  "released": "2010-05-20T00:00:00.000+00:00"
  "directors": Array (1)
}
```

- 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.

Són 166:

localhost:27017 > Sprint9 > movies

Documents 23.5K Aggregations Schema Indexes 1 Validation

Generate query + Explain Reset Find

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

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 166

```
{
  "_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/MV5BODYwNDYxNDk1Nl5BMl5BanBnXkFtZT...",
  "num_mflix_comments": 1,
  "released": 2013-12-25T00:00:00.000+00:00
}
```

NIVELL 2

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

localhost:27017 > Sprint9 > users

Documents 185 Aggregations Schema Indexes 1 Validation

Smatch \$group

Generate aggregation + Explain Export Run Options

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

Stage 1 \$match

```
1 {
2   "email": { "$regex": "@GAMEOFTHRON\\.ES"
3 }
4
5
```

Output after \$match stage (Sample of 10 documents)

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

```
{
  "_id": ObjectId('59b99db4cfa9a34dcd7885b6'),
  "name": "Robert Baratheon",
  "email": "mark_addy@gameofthron.es",
  "password": "$2b$12$yGqxLG9LZp..."
}
```

Stage 2 \$group

```
1 { "_id": "$email",
2   "totalComments": { "$sum": 1 }
3 }
4
```

Output after \$group stage (Sample of 10 documents)

```
{
  "_id": "art_parkinson@gameofthron.es",
  "totalComments": 1
}
```

```
{
  "_id": "rory_mccann@gameofthron.es",
  "totalComments": 1
}
```

També a la carpeta comments tenim el següent:

localhost:27017 > Sprint9 > comments

Documents 50.3K Aggregations Schema Indexes 1 Validation

Generate aggregation Explain Export Run Options

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

Stage 1 \$match

```
1 {
2   "email": { "$regex": "@GAMEOFTHRON\\.ES"
3 }
4
5
```

Output after \$match stage (Sample of 10 documents)

<pre>{ "_id": ObjectId('5a9427648b0beebe69579d0'), "name": "Talisa Maegyr", "email": "oona_chaplin@gameofthron.es", "movie_id": ObjectId('573a1390f29313caabcd41b'), "text": "Rem itaque ad sit rem voluptatibus. Ad fugiat maxime illum optio iure _", "date": 1998-08-22T11:45:03.000+00:00 }</pre>	<pre>{ "_id": ObjectId('5a9427648b0beebe69579d5'), "name": "Petyr Baelish", "email": "aidan_gillen@gameofthron.es", "movie_id": ObjectId('573a1390f29313caabcd421'), "text": "Quo deserunt ipsam ipsum. Tenetur eos nemo nam sint praesentium minus _", "date": 2001-07-13T19:25:09.000+00:00 }</pre>
---	---

Stage 2 \$group

```
1 { "_id": "$email",
2   "totalComments": { "$sum": 1 }
3 }
```

Output after \$group stage (Sample of 10 documents)

<pre>{ "_id": "art_parkinson@gameofthron.es", "totalComments": 285 }</pre>	<pre>{ "_id": "rory_mccann@gameofthron.es", "totalComments": 280 }</pre>
--	--

- Exercici 2

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

La resposta és 3:

localhost:27017 > Sprint9 > theaters

Documents 1.6K Aggregations Schema Indexes 1 Validation

Generate aggregation Explain Export

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

Stage 1 \$match

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

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

<pre>{ "_id": ObjectId('59a47286cfa9a3a73e51e785'), "theaterId": 1092, "location": Object }</pre>	<pre>{ "_id": ObjectId('59a47287cfa9a3a73e51e786'), "theaterId": 801, "location": Object }</pre>
---	--

Stage 2 \$group

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

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

<pre>{ "_id": "20016", "totalCinemas": 1 }</pre>	<pre>{ "_id": "20002", "totalCinemas": 1 }</pre>
--	--

```
_id: "20010"
totalCinemas : 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.

Són 4: “Animal House”, “The Blues Brothers”, “An American Werewolf in London”, “Trading Places”.

The screenshot shows the MongoDB Compass interface. The query bar contains the following query:

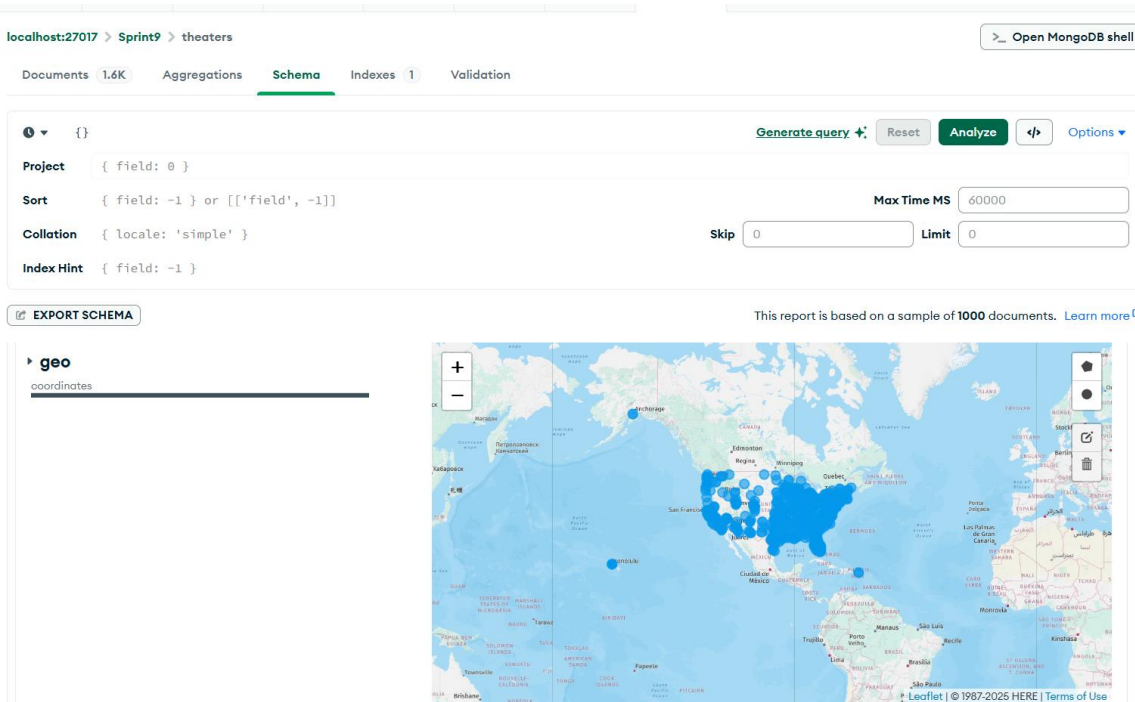
```
{ "directors": "John Landis",
  "imdb.rating": { "$gte": 7.5, "$lte": 8 } }
```

The results section shows a single document for the movie "Animal House":

```
{ "_id": ObjectId("573a1397f29313caabce6d94"),
  "fullplot": "Faber College has one frat house so disreputable it will take anyone. ...",
  "imdb": {
    "year": 1978,
    "plot": "At a 1962 college, Dean Vernon Wormer is determined to expel the entire...",
    "genres": [ "R" ],
    "rated": "R",
    "metacritic": 82,
    "title": "Animal House",
    "lastupdated": "2015-09-13 00:02:47.803000000",
    "languages": [ "English" ],
    "writers": [ "Harold Heins", "Michael C. Hill", "Robert Long" ],
    "type": "movie",
    "tomatoes": {
      "poster": "https://m.media-amazon.com/images/M/MV5BM2M2ZDA4MTYtOGRjMi00OTg5LWI1ZT...",
      "num_mflix_comments": 1,
      "released": "1978-07-28T00:00:00.000+00:00",
      "awards": {
        "countries": [ "USA" ],
        "cast": [ "John Belushi", "John Cazale", "John Goodman", "John Wood" ]
      }
    }
  }
}
```

- Exercici 2

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



Més aprop:

