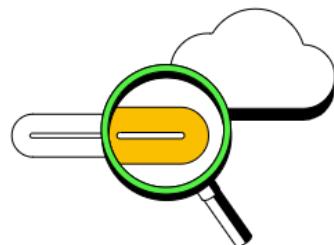


Creacio base de dades

Creo la nova connexió i la nombro « app cine ».



Welcome to MongoDB Compass

To get started, connect to an existing server or

+ Add new connection

New to Compass and don't have a cluster?

If you don't already have a cluster, you can create one for free using [MongoDB Atlas](#)

[CREATE FREE CLUSTER](#)

New Connection

Manage your connection settings

URI

`mongodb://localhost:27017/`

Edit Connection String

Name

app cine

Color

No Color

Favorite this connection

Favoriting a connection will pin it to the top of your list of connections

[Advanced Connection Options](#)

[Cancel](#)

How do I find my connection string in Atlas?

If you have an Atlas cluster, go to the Cluster view. Click the 'Connect' button for the cluster to which you wish to connect.
[See example](#)

How do I format my connection string?

[See example](#)

[Save](#) [Connect](#) [Save & Connect](#)

CONNECTIONS (1)

Search connections

▼ app cine

▶ admin

▶ config

▶ local

Creo la col·leccio "movies" i importo el fitxer JSON relacionat.

The image consists of three vertically stacked screenshots from a MongoDB interface.

Screenshot 1: Create Collection
A modal window titled "Create Collection". It contains a "Collection Name" input field with "movies" typed into it. Below the input field is a checkbox labeled "Time-Series" with a descriptive subtitle. At the bottom are "Cancel" and "Create Collection" buttons.

Screenshot 2: Import
A modal window titled "Import". It shows the path "admin.movies" selected in a sidebar. The main area displays the "Import" configuration: "Import file: movies.json" and "Options: Stop on errors". At the bottom are "Cancel" and "Import" buttons.

Screenshot 3: Import completed
A confirmation message: "Import completed. 23539 documents imported." A green checkmark icon is on the left. To the right, a snippet of the imported JSON document is shown, including fields like "countries", "type", and "id".

Faig ho mateix pels altres 4 col·leccions donades: "users", "theaters", "sessions" i "comments"

The image shows five separate MongoDB collections being imported into a database named "app_cine".

- Collection 1: admin**
 - Contains documents for users "Ned", "Rob", "Jai", "Cat", "Cameron", and "Daren".
 - Each document includes fields: _id, name, email, password, and movie_id.
 - For example, Ned's document: _id: ObjectID("5f37...", name: "Ned", email: "ned@example.com", password: "password", movie_id: 0).
- Collection 2: movies**
 - Contains documents for movies "Remainder", "Tenebrae", "Taliesin", "Quasimodo", "Cameron", and "Petya".
 - Each document includes fields: _id, title, director, year, and plot.
 - For example, "Remainder" document: _id: ObjectID("5f37...", title: "Remainder", director: "Ridley Scott", year: 2012, plot: "A man wakes up in a hospital bed with no memory of how he got there. He tries to piece together his past through fragmented memories and the help of a mysterious doctor").
- Collection 3: theaters**
 - Contains documents for theaters "Cineplex", "Multiplex", "Metropolis", "Galaxy", and "Galaxy".
 - Each document includes fields: _id, theaterId, location, and capacity.
 - For example, "Cineplex" document: _id: ObjectID("5f37...", theaterId: "Objet...", location: "123 Main St, Anytown, USA", capacity: 500).
- Collection 4: sessions**
 - Contains documents for sessions "Session 1", "Session 2", "Session 3", and "Session 4".
 - Each document includes fields: _id, sessionID, startTime, endTime, and theaterId.
 - For example, "Session 1" document: _id: ObjectID("5f37...", sessionID: "S1", startTime: ISODate("2023-10-15T20:00:00Z"), endTime: ISODate("2023-10-15T22:00:00Z"), theaterId: "Objet...").
- Collection 5: users**
 - Contains documents for users "Andrea", "Greg", "Terry", "Taliesin", "Cameron", and "Quasimodo".
 - Each document includes fields: _id, name, email, password, and movie_id.
 - For example, "Andrea" document: _id: ObjectID("5f37...", name: "Andrea", email: "andrea@example.com", password: "password", movie_id: 0).

Import status messages at the bottom of each collection view:

- Collection 1: Import completed. 1564 documents imported.
- Collection 2: Import completed. 1 document imported.
- Collection 3: Import completed. 185 documents imported.
- Collection 4: Import completed. 50304 documents imported.
- Collection 5: Import completed. 2001 documents imported.

Nivell 1 – Exercici 1

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

Es poden veure directament a través de l'interfície de MongoDB Compass seleccionant la col·lecció "comments" importada i mirant el camp "text" dels dos primers documents.

The screenshot shows the MongoDB Compass interface. On the left, the 'CONNECTIONS' sidebar lists databases: 'app cine', 'admin', 'config', and 'local'. Under 'admin', the 'comments' collection is selected. The main pane displays two documents from the 'comments' collection:

```
_id: ObjectId('5a9427648b0beebeb69579cc')
name : "Andrea Le"
email: "andrea_le@fakegmail.com"
movie_id: ObjectId("573a1390f29313caabcd418c")
text : "Re officiis eaque repellendus amet eos doloribus. Porro dolor volupta..."
date : 2012-03-26T23:20:16.000+00:00

_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. Co..."
date : 1987-02-10T00:29:36.000+00:00
```

També, es pot fer una consulta a la pestanya "Schema" (aqui generanda amb la ajuda de la AI des de una consulta SQL).

The screenshot shows the MongoDB aggregation pipeline interface. At the top, there is a search bar with the query: `SELECT text FROM comments LIMIT 2`. Below the search bar are buttons for `$project`, `$limit`, `Generate`, `Explain`, `Export`, `Run`, and `Options`.

The main area displays two stages:

- Stage 1 (\$project)**:
The stage contains the following pipeline document:

```
1 * {  
2     text: 1,  
3     _id: 0  
4 }
```

The output preview shows two documents:
 - `text : "Rem officiis eaque repellendus amet eos doloribus. Porro dolor volupta..."`
 - `text : "Tenetur dolorum molestiae ea. Eligendi praesentium unde quod Co..."`
- Stage 2 (\$limit)**:
The stage contains the following pipeline document:

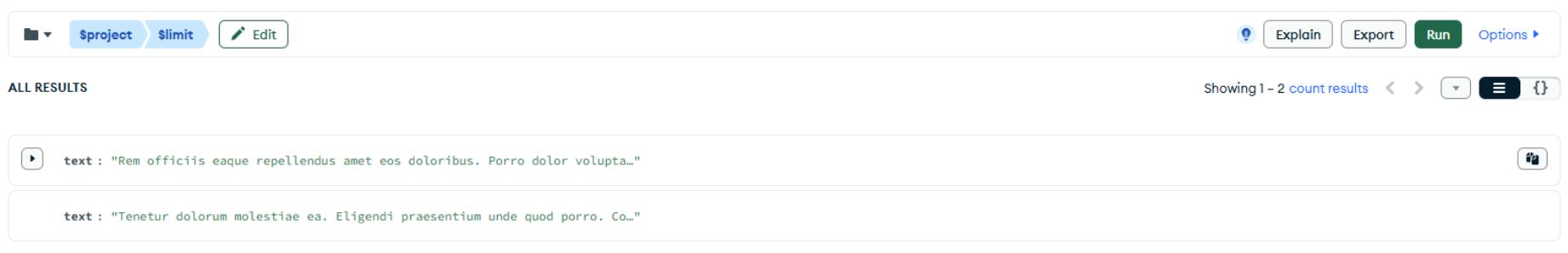
```
1 2
```

The output preview shows two documents:
 - `text : "Rem officiis eaque repellendus amet eos doloribus. Porro dolor volupta..."`
 - `text : "Tenetur dolorum molestiae ea. Eligendi praesentium unde quod Co..."`

To the right of the stages is a **Stage Wizard** sidebar with the following options:

- Search for a Stage
- Find all the documents that match one or more conditions `$MATCH`
- Group my documents based on their field values `$GROUP`
- Compute values within the groups I create `$GROUP`
- Return a subset of values based on their order or rank `$GROUP`
- Include or exclude a subset of fields from my documents `$PROJECT`
- Sort documents based on a single or set of fields `$SORT`
- Join documents from different collections to compare their field values `$LOOKUP`
- Search for a text field across all documents in a collection `$SEARCH`

El resultat es aquest, el mateix que la lectura directa des de la consola de MongoDB Compass:

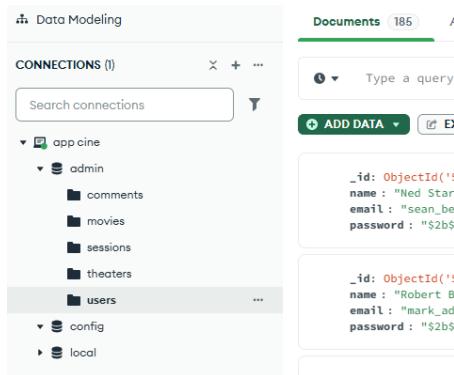


The screenshot shows the MongoDB Compass interface with a search query for the 'text' field. The results pane displays two documents:

- text : "Rem officiis eaque repellendus amet eos doloribus. Porro dolor volupta..."
- text : "Tenetur dolorum molestiae ea. Eligendi praesentium unde quod porro. Co..."

2) Quants usuaris tenim registrats?

Hem d'usar la col·lecció "users". Des de la consola, podem veure que hi ha 185 documents de usuaris creats en la nostra base de dades.



The screenshot shows the MongoDB Compass Data Modeling interface. The left sidebar lists collections: app_cine, admin, comments, movies, sessions, theaters, users, config, and local. The 'users' collection is selected and expanded, showing its sub-collections: comments, movies, sessions, and theaters. The main pane displays the first few documents of the 'users' collection, each showing fields like _id, name, email, and password.

Creant un índex compost entre els camps "email" i "name" amb la propietat unica, podem verificar si hi ha usuaris duplicats. Ja que el sistema accepta la creació del índex, no hi ha duplicats entre els 185 documents.

The image shows two screenshots of the MongoDB Compass interface. The left screenshot is a modal window titled "Create Index" for the collection "admin.users". It lists two index fields: "email" with a descending sort order (-1 (desc)) and "name" with a descending sort order (-1 (desc)). Under "Options", the "Create unique index" checkbox is checked, and the "Create TTL" checkbox is unchecked. The right screenshot shows the "Indexes" tab in the main interface, displaying two indexes: one for the "_id" field (regular, unique, ready) and another compound index for "email_-1_name_-1" (regular, unique, compound, ready). The "INDEXES" tab is selected.

3) Quants cinemes hi ha en l'estat de Califòrnia?

Necessitem una agregació a la col·lecció “theaters” per contestar aquesta pregunta. Hem de usar la pestanya “Aggregations” amb dos etapes (“stages”): un MATCH i un COUNT. Encontrem 169 cinemes en California, sempre que tots els registres siguin sans i únics.

Data Modeling

CONNECTIONS (1)

- app cine
 - admin
 - comments
 - movies
 - sessions
 - theaters**
 - users
- config
- local

Aggregations

Documents 1.6K Aggregations Schema Indexes 1 Validation

Tell us what aggregation to build (e.g. count movies made each year) or paste one in another language (SQL, Java, etc.) [Generate](#)

\$match **\$count**

Untitled - modified [SAVE](#) [CREATE NEW](#) [EXPORT TO LANGUAGE](#)

PREVIEW **{ STAGES** [TEXT](#) [WIZARD](#) [OPTIONS](#)

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

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

`_id: ObjectId('59a47286cfa9a3a73e51e72e')
theaterId: 1008
> location : Object`

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

`_id: ObjectId('59a47286cfa9a3a73e51e7')
theaterId : 1018
> location : Object`

Stage 2 **\$count**

```
1 "state_CA_count"
```

Output preview after \$count stage (Sample of 1 document)

`state_CA_count : 169`

Add stage

Learn more about aggregation pipeline stages

FR Français (France) [Aide](#) [...](#)

Search connections

CONNECTIONS (1)

- app cine
- admin
- comments
- movies
- sessions
- theaters**
- users
- config
- local

ALL RESULTS

Showing 1 - 1 count results

totalTheatersInCA
169

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

La base de dades no permet contesta aquesta pregunta. No hi ha dada temporal associado al registre dels usuaris.

L'unic dada temporal de la base de dades es associada a l'hora de la publicació dels comments. Podem cercar qui va ser el primer a publicar un comentari a través de una consulta de organització i filtre de les dades, cosa que ens donarà l'informació que va ser "Mercedes Tyler". Però això no està directament relacionat amb la pregunta.

The screenshot shows the MongoDB aggregation pipeline interface. At the top, there are buttons for '\$sort' and '\$limit'. Below that, the pipeline stages are listed:

- Stage 1 (\$sort)**:
A code editor containing the stage definition:

```
1 ▼ {  
2   date: 1  
3 }
```

An output preview titled "Output preview after \$sort stage (Sample of 10 documents)" shows two documents:

```
_id: ObjectId('5a9427648b0beebe695e67e')  
name : "Mercedes Tyler"  
email : "mercedes_tyler@fakegmail.com"  
movie_id : ObjectId('573a1399f29313caabcec3c...  
text : "Optio totam dolores magni. Enim  
ratione fuga tempora voluptatum est  
cu..."  
date : 1970-01-01T01:07:09.000+00:00
```

```
_id: ObjectId('5a9427658b0beebe6969e'  
name : "Jon Snow"  
email : "kit_harington@gameofthron.es"  
movie_id : ObjectId('573a13a4f29313ca...  
text : "Dolorum animi tempora ullam qu  
Iusto nobis reprehenderit asper  
date : 1970-01-01T09:37:49.000+00:00
```
- Stage 2 (\$limit)**:
A code editor containing the stage definition:

```
1 1
```

An output preview titled "Output preview after \$limit stage (Sample of 1 document)" shows the same document as Stage 1:

```
_id: ObjectId('5a9427648b0beebe695e67e')  
name : "Mercedes Tyler"  
email : "mercedes_tyler@fakegmail.com"  
movie_id : ObjectId('573a1399f29313caabcec3c...  
text : "Optio totam dolores magni. Enim  
ratione fuga tempora voluptatum est  
cu..."  
date : 1970-01-01T01:07:09.000+00:00
```

At the bottom, there is a button for "+ Add stage" and a link "Learn more about aggregation pipeline stages".

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

Necessitem una agregació a la col·leccio “movies” per contestar aquesta pregunta. Hem de usar la pestanya “Aggregations” amb dos etapes (“stages”): un MATCH i un COUNT. Trobem que 7024 pel·lícules estan categoritzats com a comèdia, ja sea sola o entre altres generos que s'han assignat a la pel·lícula, sempre que tots els registres siguin sans i únics.

Untitled - modified [SAVE](#) [CREATE NEW](#) [EXPORT TO LANGUAGE](#)

```
1 ▾ {  
2   genres: "Comedy"  
3 }
```

Output preview after [\\$match](#) stage (Sample of 10 documents)

```
_id: ObjectId('573a1390f29313caabcd4803')  
plot: "Cartoon figures announce, via comic  
strip balloons, that they will mov..."  
genres: Array (3)  
runtime: 7  
cast: Array (1)  
num_mflix_comments: 1  
poster: "https://m.media-  
amazon.com/images/M/MV5BYzg2NjNhNT...
```

```
_id: ObjectId('573a1390f29313caabcd50')  
plot: "The cartoonist, Winsor McCay,  
the Dinosaurus back to life in  
genres: Array (3)  
runtime: 12  
cast: Array (3)  
num_mflix_comments: 1  
poster: "https://m.media-  
amazon.com/images/M/MV5BMTQxN...
```

[+](#)

Stage 2 [\\$count](#) [...](#)

```
1 "comedy_movie_count"
```

Output preview after [\\$count](#) stage (Sample of 1 document)

```
comedy_movie_count: 7024
```

[+](#) Add stage

[Learn more about aggregation pipeline stages](#)

Nivell 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.

Hem d'usar la col·lecció "movies". La consulta retorna 18 pel·lícules (visible al recompte de la finestra de resultats a la part superior dreta, davant de la menció "ALL RESULTS"). Hem d'utilitzar una clàusula MATCH amb una clàusula OR i no "COUNT" aquí per que volian veure tots els documents.

The screenshot shows the MongoDB aggregation pipeline interface. On the left, the database structure is visible with the 'movies' collection selected. The main area displays the aggregation pipeline and its results.

Aggregation Pipeline Stages:

```
1. Stage 1: $match
   {
      year: 1932,
      $or: [
         {
            genres: "Drama"
         },
         {
            languages: "France"
         }
      ]
   }
```

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

The output preview shows 10 documents from the 'movies' collection that match the criteria. Each document includes fields like _id, plot, genres, runtime, cast, poster, and title. The first few documents are:

- Document 1:** _id: ObjectId('573a1390f29313caabcd4135')
plot: "Three men hammer on an anvil and pass a bottle of beer around."
genres: Array (1)
runtime: 1
cast: Array (2)
0: "Charles Kayser"
1: "John Ott"
- Document 2:** _id: ObjectId('573a1390f29313caabcd42e8')
plot: "A group of bandits stage a brazen train hold-up, only to find a deterrent."
genres: Array (2)
runtime: 11
cast: Array (4)
poster: "https://m.media-amazon.com/images/M/MV5BNTQ1NTMzMTUwNzIwXkEz...
- Document 3:** _id: ObjectId('573a1390f29313caabcd4323')
plot: "A young boy, oppressed by his mother, goes on an outing in the country."
genres: Array (3)
runtime: 14
rated: "UNRATED"
cast: Array (4)
poster: "https://m.media-amazon.com/images/M/MV5BNTQ1NTMzMTUwNzIwXkEz...
- Document 4:** _id: ObjectId('573a1390f29313caabcd446')
plot: "A greedy tycoon decides, on a whim, to corner the world market in wheat."
genres: Array (2)
runtime: 14
cast: Array (4)
num_mflix_comments: 1
title: "A Corner in Wheat"

Buttons and Options:

- Search connections
- app cine
- admin
- comments
- movies (selected)
- sessions
- theaters
- users
- config
- local
- \$match
- Untitled - modified
- SAVE
- CREATE NEW
- EXPORT TO LANGUAGE
- PREVIEW
- STAGES
- TEXT
- WIZARD
- Run
- Options ▾
- + Add stage

CONNECTIONS ()

\$match **Edit**

Search connections

ALL RESULTS

Showing 1 - 18 of 18

app cine

- admin
 - comments
 - movies**
 - sessions
 - theaters
 - users
- config
- local

_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/MV5BYWY3ODE5ZWEtYjlmYi00NjA4LTk4ZW..."
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
countries : Array (1)
type : "movie"
tomatoes : Object

_id: ObjectId('573a1392f29313caabcd99a3')
plot : "Junta is hated by the people in the village where she lives, especiaill..."
genres : Array (3)
runtime : 85
cast : Array (4)
poster : "https://m.media-amazon.com/images/M/MV5BNTQ1NTMzMtQtODIyYS00MTAxLWE1NT..."
title : "The Blue Light"
fullplot : "Junta is hated by the people in the village where she lives, especiaill..."
languages : Array (2)
released : 1934-05-08T00:00:00.000+00:00
directors : Array (2)
writers : Array (2)
awards : Object
lastupdated : "2015-08-03 01:02:12.350000000"
year : 1932
imdb : Object
countries : Array (1)
type : "movie"
tomatoes : Object

Nivell 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.

Hem d'usar la col·lecció "movies". La consulta retorna 166 pel·lícules (visible al recompte de la finestra de resultats a la part superior dreta, davant de la menció "ALL RESULTS"). Hem d'utilitzar una clàusula MATCH amb una clàusula AND (implícita aquí) i cap "COUNT" per que volian veure tots els documents.

The screenshot shows the MongoDB Compass interface with the following details:

- Left Sidebar:** Shows the database structure with collections: app_cine, admin, comments, movies, sessions, theaters, users, config, and local.
- Top Bar:** Contains buttons for Save, Create New, Export, Run, Explain, Options, Preview, Stages, Text, and Wizard.
- Preview of documents:** Displays four movie documents with their IDs, plots, genres, runtime, cast, and posters.
- Aggregation Pipeline Stage 1 (\$match):** Shows the query:

```
1 {  
2   countries: "USA",  
3   "awards.wins": {  
4     $gte: 5,  
5     $lte: 9  
6   },  
7   year: {  
8     $gte: 2012,  
9     $lte: 2014  
10  }  
11 }
```
- Output preview after \$match stage (Sample of 10 documents):** Displays ten movie documents matching the criteria.
- Bottom Buttons:** Add stage, Learn more about aggregation pipeline stages, and a large green Run button.

CONNECTIONS ()

\$match **Edit**

Search connections

ALL RESULTS

Showing 1–20 of 166

app cine

admin

- comments
- movies**
- sessions
- theaters
- users

config

local

```
_id: ObjectId('573a13acf29313caabbd29366')
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/MVSBODYwNDYxNDk1Nl5BMl5BanBnXkFtZT_"
num_mflix_comments: 1
released: 2013-12-25T00:00:00.000+00:00
awards: Object
countries: Array (2)
cast: Array (4)
directors: Array (1)
runtime: 114
```

```
_id: ObjectId('573a13b5f29313caabdd45772')
plot: "After their cave is destroyed, a caveman family must trek through an u..."
genres: Array (3)
runtime: 98
metacritic: 55
rated: "PG"
cast: Array (4)
poster: "https://m.media-amazon.com/images/M/MVSBMTcyOtc20TA1Ml5BMl5BanBnXkFtZT_"
title: "The Croods"
fullplot: "The Croods is a prehistoric comedy adventure that follows the world's ..."
languages: Array (1)
released: 2013-03-22T00:00:00.000+00:00
directors: Array (2)
writers: Array (5)
awards: Object
lastupdated: "2015-09-10 17:45:48.560000000"
```

Nivell 2 – Exercici 1

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

Hem d'usar la col·lecció "users". Després d'una primera recerca pel domini de correu electrònic tenint en compte les possibles opcions de majúscules/minúscules, trobem que hi ha 83 usuaris que utilitzen el domini de correu electrònic "GAMEOFTHRON.ES" que han escrit comentaris i, per tant, tenen registres a la col·lecció de comentaris.

The screenshot shows the MongoDB aggregation pipeline interface with two stages:

Stage 1 (\$match):

```
1 {  
2   email: {  
3     $regex: "@gameofthron.es$"  
4     $options: "i"  
5   }  
6 }
```

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

```
_id: ObjectId('5a9427648b0beebeb69579d0')  
name: "Talisa Maegyr"  
email: "ona_chaplin@gameofthron.es"  
movie_id: ObjectId('573a1390f29313caabcd41b...  
text: "Rem itaque ad sit reet voluptatibus.  
Ad fugiat maxime illum optio iure ..."  
date: 1998-08-22T11:45:03.000+00:00
```

```
_id: ObjectId('5a9427648b0beebeb69579d5')  
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
```

```
_id: ObjectId('5a9427648b0beebeb69579e')  
name: "Olly"  
email: "brenock_o'connor@gameofthron...  
movie_id: ObjectId('573a1390f29313ca...  
text: "Persipciatis sit pariatur quas  
Perferendis officia harum ipsum  
deleni."  
date: 2005-01-04T13:49:05.000+00:00
```

Stage 2 (\$group):

```
1 {  
2   _id: "$email",  
3   commentCount: {  
4     $sum: 1  
5   }  
6 }
```

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

```
_id: "thomas_brodie-sangster@gameofthron.es"  
commentCount: 258
```

```
_id: "rory_mccann@gameofthron.es"  
commentCount: 280
```

```
_id: "rose_leslie@gameofthron.es"  
commentCount: 273
```

The screenshot shows the MongoDB Compass application interface. The left sidebar displays a tree view of database collections: app_cine, admin, config, and local. The admin collection is expanded, showing sub-collections comments, movies, sessions, theaters, and users. The users collection is also expanded, showing documents for various users. The main pane displays the results of a search query titled "ALL RESULTS". The results list ten user documents, each containing their email address and comment count. The results are paginated, showing pages 1-20 of 83.

User	Email	commentCount
1	amrita_acharia@gameofthron.es	249
2	faye_marsay@gameofthron.es	276
3	ron_donachie@gameofthron.es	305
4	peter_vaughan@gameofthron.es	280
5	sophie_turner@gameofthron.es	308
6	daniel_portman@gameofthron.es	262
7	Luke_barnes@gameofthron.es	281
8	harry_lloyd@gameofthron.es	285
9	tom_wlaschiha@gameofthron.es	273
10	jason_momoa@gameofthron.es	276

Modifiquem la consulta per fer un compte del total d'aquests comentaris. Trobem un total de 22841.

The screenshot shows the MongoDB Compass interface with a pipeline query. The connection is set to 'app cine'. The pipeline consists of two stages:

- Stage 1: \$match**
The query matches documents where the email field contains '@gameofthron.es' using a regular expression. It also includes a case-insensitive option ('i').

```
1 {  
2   email: {  
3     $regex: "@gameofthron.es$",  
4     $options: "i"  
5   }  
6 }
```
- Stage 2: \$count**
This stage counts the total number of documents matching the criteria.

```
1 "total_comments"
```

The output preview shows 10 sample documents from the \$match stage, and the final output shows a single document with the key 'total_comments' and the value 22841.

The screenshot shows the results of the pipeline query in the MongoDB Compass interface. The connection is set to 'app cine'. The results are displayed under the 'ALL RESULTS' section, showing a single document with the key 'total_comments' and the value 22841.

Nivell 2 – Exercici 2

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

Hem d'usar la col·lecció "theaters". Son 3 en total.

The screenshot shows the MongoDB aggregation pipeline interface. It consists of two main sections: Stage 1 and Stage 2.

Stage 1: This stage includes a search bar for connections, a sidebar with database and collection lists (including 'app cine', 'admin', 'comments', 'movies', 'sessions', 'theaters', 'users', 'config', and 'local'), and a top navigation bar with buttons for '\$match' and '\$count'. The pipeline itself is defined as:

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

The output preview shows three documents matching the state "DC":

- Document 1: _id: ObjectId('59a47286cfa9a3a73e51ec785'), theaterId: 1092, location: Object
- Document 2: _id: ObjectId('59a47287cfa9a3a73e51ec33'), theaterId: 801, location: Object
- Document 3: _id: ObjectId('59a47287cfa9a3a73e51ec'), theaterId: 8500, location: Object

Stage 2: This stage includes a search bar for connections, a sidebar with database and collection lists, and a top navigation bar with buttons for '\$match' and '\$count'. The pipeline is defined as:

```
1: "totalTheatersInDC"
```

The output preview shows the result of the \$count stage: totalTheatersInDC : 3.

Bottom Section: This section shows the 'ALL RESULTS' table with the single row: totalTheatersInDC : 3. It also displays a message: 'Showing 1 - 1 count results'.

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.

Hem d'usar la col·lecció "movies". Son 4 en total (visible tant a la mostra ja que només mostra una mostra de 10 resultats i també al recompte de la finestra de resultats a la part superior dreta, davant de la menció "ALL RESULTS").

The screenshot shows the MongoDB Compass interface with the following details:

- Left sidebar:** Shows the database connection "app cine" and the collection "movies" selected.
- Top bar:** Includes "Untitled - modified", "SAVE", "CREATE NEW", "EXPORT TO LANGUAGE", "PREVIEW", "STAGES", "TEXT", "WIZARD", and "Run" buttons.
- Preview of documents:** Displays four movie documents. One document is expanded to show fields like title, fullplot, _id, plot, genres, runtime, rated, cast, and poster.
- Stage 1:** A stage named "\$match" is defined with the following query:

```
1 ▪ {  
2   "directors": "John Landis",  
3   "imdb.rating": {  
4     "$gte": 7.5,  
5     $lte: 8  
6   }  
7 }
```

- Output preview after \$match stage:** Shows a sample of 4 documents matching the query. The first document is expanded to show its full content, including the expanded directors field.
- Bottom right:** A green button labeled "+ Add stage".

CONNECTIONS () X + ...

Search connections

app cine

admin

- comments
- movies
- sessions
- theaters
- users

config

local

\$match Edit Explain Export Run Options ▾

Showing 1- 4 of 4 ⏪ ⏩ ⏴ ⏵ ⏷ ⏸ ⏹ ⏻

ALL RESULTS

```
_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 entir..."
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/MVSBM2M2ZDA4MTYtOGRjMi000Tg5LWI1ZT..."
num_mflix_comments: 1
released: 1978-07-28T00:00:00.000+00:00
awards: Object
countries: Array (1)
cast: Array (4)
directors: Array (1)
runtime: 109
```

```
_id: ObjectId('573a1397f29313caabce76f7')
plot: "Jake Blues, just out from prison, puts together his old band to save t..."
genres: Array (3)
runtime: 133
rated: "R"
cast: Array (4)
num_mflix_comments: 1
poster: "https://m.media-amazon.com/images/M/MVSBYTdlMDExOGUtN2I3MS00MjY5LWE1NT..."
title: "The Blues Brothers"
fullplot: "After the release of Jake Blues from prison, he and brother Elwood go ..."
languages: Array (1)
released: 1980-06-28T00:00:00.000+00:00
directors: Array (1)
writers: Array (2)
awards: Object
```

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

Aquí es 😊

Data Modeling Documents 1.6K Aggregations Schema Indexes 1 Validation

CONNECTIONS () Search connections T

Type a query: { field: 'value' }

EXPORT SCHEMA

This report is based on a sample of 1000 documents. Learn more ↗

address

Document with 5 nested fields.

geo

coordinates

theaterId

int32

1447 2778 291 8177 2539 1480 44 1095 2741 1928 2929 2759 945 2893 1004 1093 2922 420 1028
8915

