

Nivel 1**Ejercicio 1.**

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

The screenshot shows the MongoDB Compass interface connected to the 'localhost:27017' database and the 'S501' collection. The 'Aggregations' tab is selected. Two documents are listed under 'ALL RESULTS':

```

_id: ObjectId('5a9427648b0beebe69579cc')
name: "Andrea Le"
email: "andrea_le@fakegmail.com"
movie_id: ObjectId('573a1390f29513caabed418c')
text: "Rem officiis eaque repellendus amet eos doloribus. Porro dolor volupta..."
date: 2012-03-26T23:28:16.800+00:00

_id: ObjectId('5a9427648b0beebe69579cf')
name: "Greg Powell"
email: "greg_powell@fakegmail.com"
movie_id: ObjectId('573a1390f29513caabed41b1')
text: "Tenetur dolorum molestiae ea. Eligendi praesentium unde quod porro. Co..."
date: 1987-02-10T09:29:36.800+00:00

```

- Quants usuaris tenim registrats?

The screenshot shows the MongoDB Compass interface connected to the 'localhost:27017' database and the 'S501' collection. The 'Aggregations' tab is selected. An aggregation pipeline is defined with one stage:

```

Stage1: $count

```

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

```

total_id: 185

```

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

The screenshot shows the MongoDB Compass interface with an aggregation pipeline. The pipeline consists of one stage, \$count, which is currently enabled. The stage input shows a sample of 10 documents from the 'theaters' collection. The stage output shows the result of the \$count stage, which is a single document with the key 'cinemes_CA' and the value 109. This output is highlighted with a red box.

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

The screenshot shows the MongoDB Compass interface with an aggregation pipeline. The pipeline consists of one stage, \$limit, which is currently enabled. The stage input shows a sample of 185 documents from the 'users' collection. The stage output shows the result of the \$limit stage, which is a single document with the key '_id' and the value 'ObjectId('59b99db4cfa9a34cd7885b6')'. This output is highlighted with a red box.

MongoDB Compass - localhost:27017/\$501.users

```

    Go to previous stage Ctrl + Shift + ⌘
    Stage 2: $limit
    STAGE INPUT Options Sample of 10 documents
    _id: ObjectId('59b99db6cfa9a34...  

    name: "Viserys Targaryen"  

    email: "harry_lloydgameofthr...  

    password: "$2b$125cpVmU4DyQx...
    _id: ObjectId('59b99db6cfa9a34...  

    name: "Jon Snow"  

    email: "kit_harington@gameofthr...  

    password: "$2b$125fDEuIRu66tLW...
    _id: ObjectId('59b99db6cfa9a34...  

    name: "Cersei Lannister"  

    email: "leona_headegameofthr...  

    password: "$2b$125FEExjgr7CLhNC...
    _id: ObjectId('59b99db6cfa9a34...  

    name: "Peter Dinklage"  

    email: "aidan_gillen@gameofthr...  

    password: "$2b$125qM.YvmIekY...
    _id: ObjectId('59b99db6cfa9a34...
  
```

STAGE OUTPUT Options Sample of 1 document

```

    _id: ObjectId('59b99db4cfa9a34dc...  

    name: "Ned Stark"  

    email: "sean_bean@gameofthrone...  

    password: "$2b$12$UREFwsRUYeFO...
  
```

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

MongoDB Compass - localhost:27017/\$501.movies

```

    Go to previous stage Ctrl + Shift + ⌘
    Stage 2: $count
    STAGE INPUT Options Sample of 10 documents
    _id: ObjectId('573a1300f29313c...  

    plot: "Cartoon figures announce, via comic strip balloons, that they will move..."  

    genres: Array (3)  

    runtime: 7  

    cast: Array (1)  

    num_mflix_comments: 1  

    poster: "https://m.media-amazon.com/images/M/MV...  

    title: "Winsor McCay, the Famous Cartoonist of the N.Y. Herald and His Moving Cartoons"  

    fullplot: "Cartoonist Winsor McCay agrees to create a large set of drawings that..."  

    languages: Array (1)  

    released: 1911-04-08T00:00:00...  

    directors: Array (2)  

    writers: Array (2)  

    awards: Object  

    lastupdated: "2015-08-29 01:09:03.63000000...  

    year: 1911
  
```

STAGE OUTPUT Options Sample of 1 document

```

    total_comedies: 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.

MongoDB Compass - localhost:27017/S5.movies

Connections Edit View Collection Help

Compass

- My Queries
- Data Modeling
- CONNECTIONS (1)
 - localhost:27017
 - comments
 - movies**
 - sessions
 - theaters
 - users
 - admin
 - config
 - local

localhost:27017 > S5 > movies

Documents 24K Aggregations Schema Indexes 1 Validation

Smash Edit Explain Export Run Options ▾

ALL RESULTS

Showing 1–18 count results

```
_id: ObjectId('573a1392f29313caabcd9d4f')
plot: "Two young brothers become the leaders of a gang of kids in their neighbor's house after their parents are killed in a car accident. They are forced to leave their home and move to a nearby town where they are welcomed by other children who have lost their parents in the same accident. The brothers quickly become popular among the other children and start a gang called 'The Double Brothers'. They begin to terrorize the town, threatening and bullying other children. The other children are afraid to stand up to them, but one girl named Sarah stands up to them and becomes their leader. She helps the other children to stand up to the brothers and eventually they are defeated. The brothers are arrested and sent to a juvenile detention center. The other children are relieved that the brothers are gone and return to their normal lives."}
genres: Array (2)
runtime: 100
metacritic: 91
rated: "NOT RATED"
cast: Array (4)
poster: "https://m.media-amazon.com/images/M/MVSBMzZkOTVjY2MtZDhlMs00MjUyLTkyZW...".
title: "I Was Born, But..."}
multiplet: "Two young brothers become the leaders of a gang of kids in their neighbor's house after their parents are killed in a car accident. They are forced to leave their home and move to a nearby town where they are welcomed by other children who have lost their parents in the same accident. The brothers quickly become popular among the other children and start a gang called 'The Double Brothers'. They begin to terrorize the town, threatening and bullying other children. The other children are afraid to stand up to them, but one girl named Sarah stands up to them and becomes their leader. She helps the other children to stand up to the brothers and eventually they are defeated. The brothers are arrested and sent to a juvenile detention center. The other children are relieved that the brothers are gone and return to their normal lives."
synopsis: "Two young brothers become the leaders of a gang of kids in their neighbor's house after their parents are killed in a car accident. They are forced to leave their home and move to a nearby town where they are welcomed by other children who have lost their parents in the same accident. The brothers quickly become popular among the other children and start a gang called 'The Double Brothers'. They begin to terrorize the town, threatening and bullying other children. The other children are afraid to stand up to them, but one girl named Sarah stands up to them and becomes their leader. She helps the other children to stand up to the brothers and eventually they are defeated. The brothers are arrested and sent to a juvenile detention center. The other children are relieved that the brothers are gone and return to their normal lives."
released: 1992-06-03T00:00:00.000Z
directors: Array (1)
writers: Array (3)
awards: Object
lastupdated: "2015-08-20 01:02:13.173000000"
year: 1992
imdb: Object
type: "movie"
tomatoes: Object
```

Activar Windows
Ve a Configuración para activar Windows.

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.

MongoDB Compass - localhost:27017/S5.movies

Connections Edit View Collection Help

Compass

- My Queries
- Data Modeling
- CONNECTIONS (1)
 - localhost:27017
 - comments
 - movies**
 - sessions
 - theaters
 - users
 - admin
 - config
 - local

localhost:27017 > S5 > movies

Documents 24K Aggregations Schema Indexes 1 Validation

Smash Generate aggregation Explain Export Run Options ▾

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

Collation [locale:'simple'] Max Time MS 60000

Stage 1 \$match

```
1 /*+
2 * query: The query in MQL.
3 */
4 {
5   "countries": "USA",
6   "awards.wins": { "$gte": 5, "$lte": 9 },
7   "year": { "$gte": 2012, "$lte": 2014 }
8 }
```

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

```
_id: ObjectId('573a13b5f29313caabd45772')
plot: "After their cave is destroyed, a caveman family must trek through an underground river to find a new home. Along the way, they encounter various challenges and dangers, including a giant sloth-like creature and a waterfall. The family must work together to overcome these obstacles and find a new home. The movie is a fun and educational adventure for all ages, teaching important lessons about teamwork and perseverance."}
genres: Array (3)
runtime: 98
metacritic: 55
rated: "PG"
cast: Array (4)
```

Activar Windows
Ve a Configuración para activar Windows.

```

1 > /**
2  * query: The query in MQL.
3  */
4 > {
5   "countries": "USA",
6   "awards.wins": { "$gte": 5, "$lte": 9 },
7   "year": { "$gte": 2012, "$lte": 2014 }
8 }

```

STAGE INPUT

STAGE OUTPUT

Nivel 2

Exercici 1

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

```

1 > /**
2  * specifications: The fields to
3  * include or exclude.
4  */
5 > {
6
7   name: 1,
8   email: 1,
9   total_comments: { $size: "$user_comments" }
10
11 }

```

STAGE INPUT

STAGE OUTPUT

Exercici 2

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

The screenshot shows a MongoDB aggregation pipeline interface. The current stage is "Stage 2: \$group". The stage input shows three documents with fields like _id, theaterId, and location. The stage output shows three documents with a new field "total_cinemas" which is the sum of the "total_cinemas" field from the input documents. The pipeline is currently disabled.

```

1 /**
2  * _id: The id of the group.
3  * fieldN: The first field name.
4  */
5 {
6   "_id": "$location.address.zipcode",
7   "total_cinemas": { "$sum": 1 }
8 }
9

```

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.

The screenshot shows a MongoDB aggregation pipeline interface. The current stage is "Stage 1: \$match". The stage input shows ten movie documents. The stage output shows four movies that have "John Landis" in their directors array and an "imdb.rating" between 7.5 and 8.0. The pipeline is currently enabled.

```

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

```

Exercici 2

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

