

MONGO DB INSTAL·LACIÓ I PRIMER CONTACTE

Activitat 1

Accés a dades

Ghizlane Nouali Nouali

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1. Primer, he anat a la web de MongoDB Atlas i m'he registrat amb el meu correu electrònic. Un cop dins, vaig confirmar el compte i vaig accedir al dashboard, on puc veure els meus clusters.

The screenshot shows the MongoDB Atlas dashboard with a dark theme. At the top, it says 'ORGANIZATION Ghiz's Org - 2026-01-...'. Below that is a section titled 'All Projects' with a 'New Project' button. A search bar says 'Find a project...'. The main table has columns for 'Project Name', 'Clusters', 'Tags', 'Users', 'Teams', 'Alerts', and 'Actions'. One row is shown for 'Project 0'.

Project Name	Clusters	Tags	Users	Teams	Alerts	Actions
Project 0	1 Cluster	+ Add Tags	1 User	0 Teams	0 Alerts	...

2. He clicat a Create Database dins del cluster, he posat el nom de la base de dades: **Tasques**, i el nom de la col·lecció: **Entrades**

The screenshot shows the MongoDB Atlas Data Explorer interface. On the left, there's a sidebar with 'Data Explorer', 'My Queries', 'Data Modeling', and a 'CLUSTERS' section. Under 'CLUSTERS', 'Cluster0' is selected, showing 'Tasques' and 'Entrades' collections. The 'Entrades' collection is currently selected. In the center, the 'Cluster0 > Tasques > Entrades' path is shown. A 'Create Database' dialog box is open over the main area. It has fields for 'Database Name' (set to 'Tasques') and 'Collection Name' (set to 'Entrades'). There's a checkbox for 'Time-Series' which is unchecked. Below the checkbox, there's a note about time-series collections. At the bottom of the dialog are 'Cancel' and 'Create Database' buttons.

3. He creat cinc documents amb els camps següents:

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

- Cluster0 > Tasques > Entrades**: The current database and collection.
- Documents (5)**: The number of documents in the collection.
- Aggregations**, **Schema**, **Indexes (1)**, **Validation**: Other tabs available in the header.
- View monitoring** and **Visualize Your Data**: Buttons in the top right.
- Search bar**: "Type a query: { field: 'value' } or Generate query".
- Action buttons**: ADD DATA, UPDATE, DELETE.
- Document list**: A table with columns: _id, ObjectId, nom, cognom1, cognom2, dataEntrada, completa, observacions. It contains 5 rows of data.
- Page controls**: 25, 1-5 of 5, navigation arrows, and a search bar.

	_id	ObjectId	nom	cognom1	cognom2	dataEntrada	completa	observacions
1		695956298a4d69...	"Anna"	"Garcia"	"Lopez"	2025-01-10T00:00:00.000+...	true	"Tasques entregades c...
2		695956cfa8ad69...	"Marc"	"Perez"	"Soler"	2025-01-12T00:00:00.000+...	false	"Falta revisar aparta...
3		6959575a8a4d69...	"Anna"	"Garcia"	"Lopez"	2025-02-01T00:00:00.000+...	true	"Excellent presentació...
4		695957868a4d69...	"Joan"	"Marti"	"Roca"	2025-02-05T00:00:00.000+...	false	""
5		695957c08a4d69...	"Laura"	"Vila"	"Costa"	2025-02-10T00:00:00.000+...	true	"Bona feina però amb ..."

6. Documenta com feries les següents cerques. Si és necessari, afegeix algun registre més de tasques.

1. Llistar totes les tasques.

The screenshot shows the MongoDB Compass interface with the 'Documents' tab selected. A search bar contains the query '{ }'. Below it are buttons for 'ADD DATA', 'UPDATE', and 'DELETE'. The results pane shows 25 documents (1-5 of 5) in the 'Entrades' collection. Each document has fields: _id (ObjectId), nom (String), cognom1 (String), cognom2 (String), and dataEntra (String). The data is as follows:

	_id	nom	cognom1	cognom2	dataEntra
1	ObjectId('695956298a4d69...')	"Anna"	"Garcia"	"Lopez"	2025-01-1
2	ObjectId('695956cf8a4d69...')	"Marc"	"Perez"	"Soler"	2025-01-1
3	ObjectId('6959575a8a4d69...')	"Anna"	"Garcia"	"Lopez"	2025-02-0
4	ObjectId('695957868a4d69...')	"Joan"	"Martí"	"Roca"	2025-02-0
5	ObjectId('695957c08a4d69...')	"Laura"	"Vila"	"Costa"	2025-02-1

2. Llistar les tasques completades.

The screenshot shows the MongoDB Compass interface with the 'Documents' tab selected. A search bar contains the query '{ "completa": true }'. Below it are buttons for 'ADD DATA', 'UPDATE', and 'DELETE'. The results pane shows 25 documents (1-3 of 3) in the 'Entrades' collection. Each document has fields: _id (ObjectId), nom (String), cognom1 (String), cognom2 (String), and completa (Boolean). The data is as follows:

	_id	nom	cognom1	cognom2	completa
1	ObjectId('695956298a4d69...')	"Anna"	"Garcia"	"Lopez"	true
2	ObjectId('6959575a8a4d69...')	"Anna"	"Garcia"	"Lopez"	true
3	ObjectId('695957c08a4d69...')	"Laura"	"Vila"	"Costa"	true

3. Llistar les tasques d'un alumne específic.

The screenshot shows the MongoDB Compass interface with the 'Documents' tab selected. A search bar contains the query '{ "nom": "Anna" }'. Below it are buttons for 'ADD DATA', 'UPDATE', and 'DELETE'. The results pane shows 25 documents (1-2 of 2) in the 'Entrades' collection. Each document has fields: _id (ObjectId), nom (String), cognom1 (String), cognom2 (String), and dataEntra (String). The data is as follows:

	_id	nom	cognom1	cognom2	dataEntra
1	ObjectId('695956298a4d69...')	"Anna"	"Garcia"	"Lopez"	2025-01-1
2	ObjectId('6959575a8a4d69...')	"Anna"	"Garcia"	"Lopez"	2025-02-0

4. Cerca les tasques de determinat alumne i completades.

The screenshot shows the MongoDB Compass interface. The top navigation bar has tabs for 'Documents' (5), 'Aggregations', 'Schema', 'Indexes' (1), and 'Validation'. Below the navigation is a search bar containing the query: `{"nom": "Anna", "completa": true}`. To the right of the search bar are buttons for 'Generate query', 'Explain', 'Reset', 'Find' (which is highlighted in green), and 'Options'. Below the search bar are buttons for '+ ADD DATA', 'UPDATE', and 'DELETE'. On the far right are pagination controls (25, 1-2 of 2) and a toolbar. The main area is titled 'Entrades' and displays a table with columns: _id, nom, cognom1, cognom2, and completa. Two documents are listed:

	_id	nom	cognom1	cognom2	completa
1	ObjectId('695956298a4d69...')	"Anna"	"Garcia"	"Lopez"	true
2	ObjectId('6959575a8a4d69...')	"Anna"	"Garcia"	"Lopez"	true

5. Llista les tasques completades i amb observacions.

The screenshot shows the MongoDB Compass interface. The top navigation bar has tabs for 'Documents' (5), 'Aggregations', 'Schema', 'Indexes' (1), and 'Validation'. Below the navigation is a search bar containing the query: `{"completa": true, "observacions": { "$ne": "" }}`. To the right of the search bar are buttons for 'Generate query', 'Explain', 'Reset', 'Find' (highlighted in green), and 'Options'. Below the search bar are buttons for '+ ADD DATA', 'UPDATE', and 'DELETE'. On the far right are pagination controls (25, 1-3 of 3) and a toolbar. The main area is titled 'Entrades' and displays a table with columns: _id, nom, observacions, cognom1, cognom2. Three documents are listed:

	_id	nom	observacions	cognom1	cognom2
1	ObjectId('695956298a4d69...')	"Anna"	"Tasques entregades corr..."	"Garcia"	"Lopez"
2	ObjectId('6959575a8a4d69...')	"Anna"	"Excel·lent presentació"	"Garcia"	"Lopez"
3	ObjectId('695957c08a4d69...')	"Laura"	"Bona feina però amb err..."	"Vila"	"Costa"

6. Llista les tasques completades després d'una certa data.

The screenshot shows the MongoDB Compass interface. The top navigation bar has tabs for 'Documents' (5), 'Aggregations', 'Schema', 'Indexes' (1), and 'Validation'. Below the navigation is a search bar containing the query: `{ completa: true, dataEntrada: { $gt: new Date("2025-01-15") } }`. To the right of the search bar are buttons for 'Generate query', 'Explain', 'Reset', 'Find' (highlighted in green), and 'Options'. Below the search bar are buttons for '+ ADD DATA', 'UPDATE', and 'DELETE'. On the far right are pagination controls (25, 1-2 of 2) and a toolbar. The main area is titled 'Entrades' and displays a table with columns: _id, nom, cognom1, dataEntrada, cognom2. Two documents are listed:

	_id	nom	cognom1	dataEntrada	cognom2
1	ObjectId('6959575a8a4d69...')	"Anna"	"Garcia"	2025-02-01T00:00:00.000+...	"Lopez"
2	ObjectId('695957c08a4d69...')	"Laura"	"Vila"	2025-02-10T00:00:00.000+...	"Costa"

7. Llista les tasques amb observacions que continguin una paraula específica.

The screenshot shows a MongoDB query interface with the following details:

- Documents:** 5
- Query:** { observacions: { \$regex: "Bona", \$options: "i" } }
- Buttons:** Generate query, Explain, Reset, Find, Options
- Table Headers:** Entrades, _id ObjectId, nom String, cognom1 String, observacions String, cognom2 S
- Table Data:**

_id	nom	cognom1	observacions	cognom2
ObjectId('695957c08a4d69...')	"Laura"	"Vila"	"Bona feina però amb err..."	"Costa"

8. Llista les tasques no completades ordenades alfabèticament.

The screenshot shows a MongoDB query interface with the following details:

- Documents:** 5
- Query:** { "completa": false }
- Buttons:** Generate query, Explain, Reset, Find, Options
- Table Headers:** Entrades, _id ObjectId, nom String, cognom1 String, completa Boolean, cognom2 S
- Table Data:**

_id	nom	cognom1	completa	cognom2
ObjectId('695957868a4d69...')	"Joan"	"Martí"	false	"Roca"
ObjectId('695956cf8a4d69...')	"Marc"	"Perez"	false	"Soler"

9. Llista les tasques entre dues dates específiques.

The screenshot shows a MongoDB query interface with the following details:

- Documents:** 5
- Query:** { dataEntrada: { \$gte: ISODate("2025-01-10"), \$lte: ISODate("2025-02-05") } }
- Buttons:** Generate query, Explain, Reset, Find, Options
- Table Headers:** Entrades, _id ObjectId, nom String, dataEntrada Date, cognom1 String, cognom2 S
- Table Data:**

_id	nom	dataEntrada	cognom1	cognom2
ObjectId('695956298a4d69...')	"Anna"	2025-01-10T00:00:00.000+...	"Garcia"	"Lopez"
ObjectId('695956cf8a4d69...')	"Marc"	2025-01-12T00:00:00.000+...	"Perez"	"Soler"
ObjectId('6959575a8a4d69...')	"Anna"	2025-02-01T00:00:00.000+...	"Garcia"	"Lopez"
ObjectId('695957868a4d69...')	"Joan"	2025-02-05T00:00:00.000+...	"Martí"	"Roca"

10. Llista les tasques amb observacions que comencin amb una determinada paraula ordenades per data més nova a més antiga.

Screenshot of a MongoDB query interface showing a query for documents containing specific observations and sorted by date.

Query:

```
{  
  "observaciones": {  
    "$regex": "^Tasques",  
    "$options": "i"  
  }  
}
```

Project: { field: 0 }

Sort: { "dataEntrada": -1 }

Max Time MS: 60000

Collation: { locale: 'simple' }

Skip: 0

Limit: 0

Buttons: ADD DATA, UPDATE, DELETE, Explain, Reset, Find, Options

Results: Entrades

	_id ObjectId	nom String	cognom1 String	observacions String	cognom2 S
1	ObjectId('695960f58a4d69...')	"Carla"	"Santos"	"Tasques entregades amb ..."	"Ruiz"
2	ObjectId('695956298a4d69...')	"Anna"	"Garcia"	"Tasques entregades corr..."	"Lopez"