

Accés a dades

Tasca 1 - MongoDB instal·lació

Nom: Lionnel Laguna Fernandez

Curs: 2025 - 2026

Professor: Àlex García Ojeda

Institució: Castellet

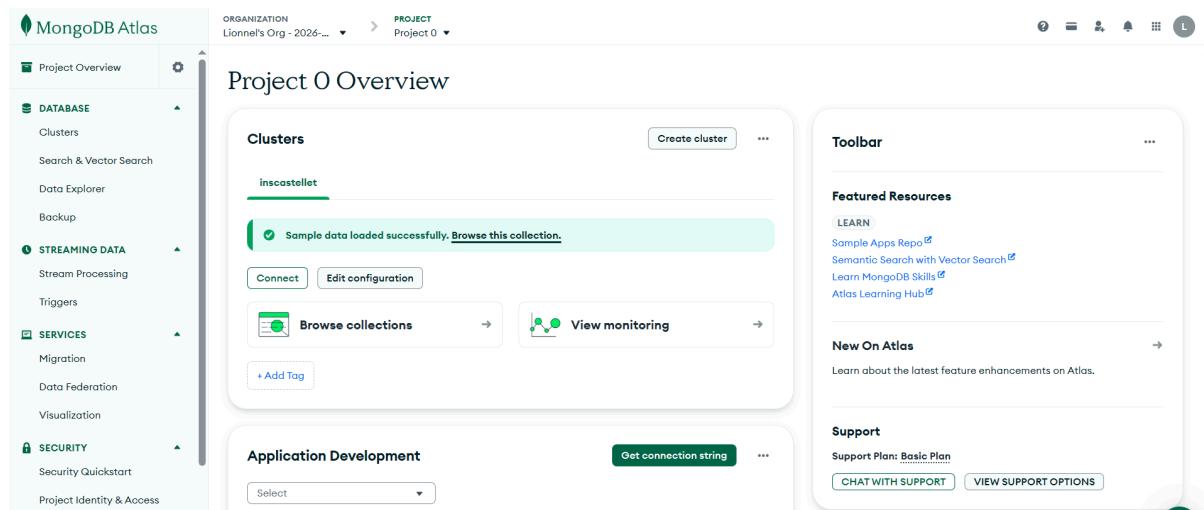
Data d'entrega: 08/01/2026

Taula de continguts

1. Registrat a l'atlas	3
2. Creació Base de dades	4
3. Creació Col·lecció	6
4. Inserció 5 registres a tasques	7
5. Cerques	8

1. Registrat a l'atlas

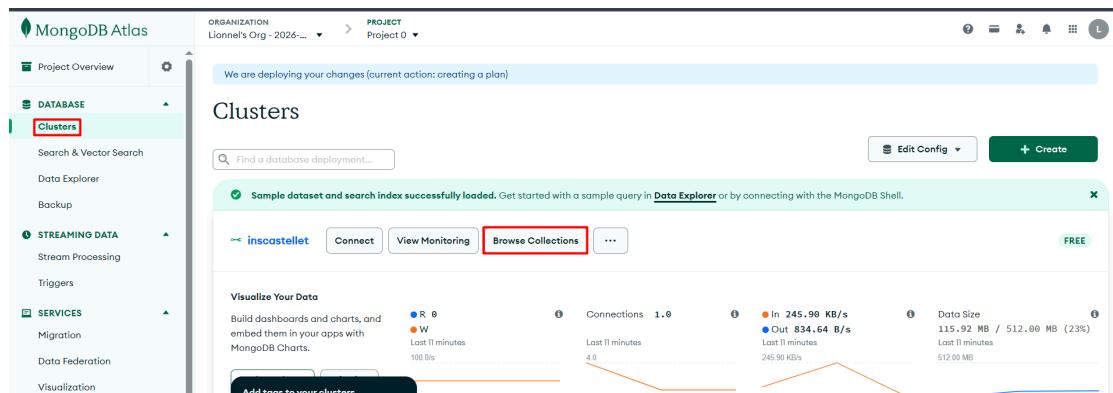
Ja m'he registrat.



The screenshot shows the MongoDB Atlas interface for a project named "Project 0". The left sidebar contains navigation links for Project Overview, DATABASE (Clusters, Search & Vector Search, Data Explorer, Backup), STREAMING DATA (Stream Processing, Triggers), SERVICES (Migration, Data Federation, Visualization), and SECURITY (Security Quickstart, Project Identity & Access). The main content area is titled "Project 0 Overview" and displays the "Clusters" section, which lists a single cluster named "incastellet". A green banner indicates "Sample data loaded successfully." with a link to "Browse this collection.". Below this are buttons for "Connect" and "Edit configuration", and links to "Browse collections" and "View monitoring". The "Application Development" section includes a "Get connection string" button and a dropdown menu set to "Select". To the right, there's a "Toolbar" with various icons, a "Featured Resources" section with links to "Sample Apps Repo", "Semantic Search with Vector Search", "Learn MongoDB Skills", and "Atlas Learning Hub", a "New On Atlas" section with a link to "Learn about the latest feature enhancements on Atlas.", and a "Support" section with a "CHAT WITH SUPPORT" button and a "VIEW SUPPORT OPTIONS" link.

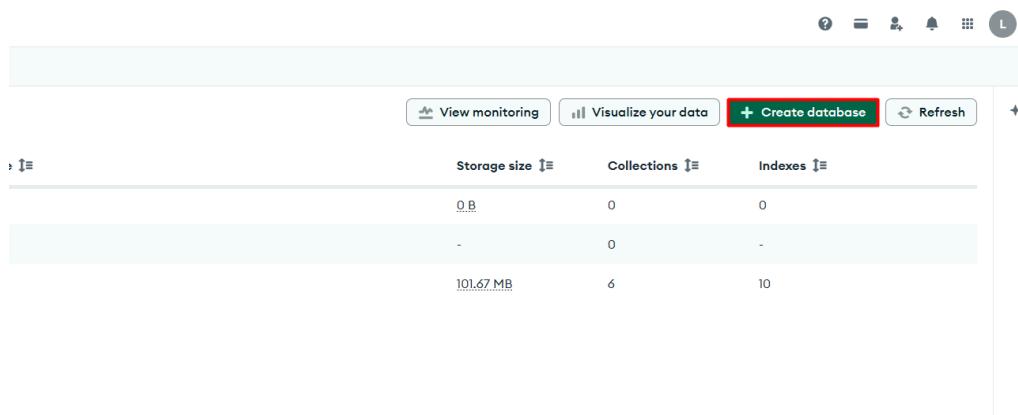
2. Creació Base de dades

Primer de tot haurem d'anar a “Clusters” i després haurem d'anar a “Browse collections”.



The screenshot shows the MongoDB Atlas Clusters dashboard. On the left sidebar, under the DATABASE section, the "Clusters" tab is selected. In the main area, there's a message: "We are deploying your changes (current action: creating a plan)". Below it, a green banner says "Sample dataset and search index successfully loaded. Get started with a sample query in Data Explorer or by connecting with the MongoDB Shell." A cluster named "incastellet" is listed with "Connect", "View Monitoring", and "Browse Collections" buttons. The "Browse Collections" button is highlighted with a red box. Other tabs like "Search & Vector Search", "Data Explorer", and "Backup" are also visible. At the bottom, there's a "Visualize Your Data" section with various metrics and a "Add-ons to your clusters" button.

Un cop a “Browse Collections” li donarem a “Create database”.



The screenshot shows the MongoDB Atlas Create database screen. At the top, there are buttons for "View monitoring", "Visualize your data", and a prominent red-highlighted "Create database" button. Below these are three tables: "Storage size", "Collections", and "Indexes". The "Storage size" table shows 0 B, - MB, and 101.67 MB respectively. The "Collections" table shows 0, 0, and 6 respectively. The "Indexes" table shows 0, -, and 10 respectively. At the bottom right, there's a "Refresh" button.

Per últim creem la base de dades.

Create Database

Database Name

Tasques

Collection Name

Entrades

Time-Series

Time-series collections efficiently store sequences of measurements over a period of time. [Learn More](#)

› Additional preferences (e.g. Custom collation, Clustered collections)

Cancel

Create Database

3. Creació Col·lecció

Quan creem la base de dades ja ens crea les collections.

Create Database

Database Name

Tasques

Collection Name

Entrades

Time-Series

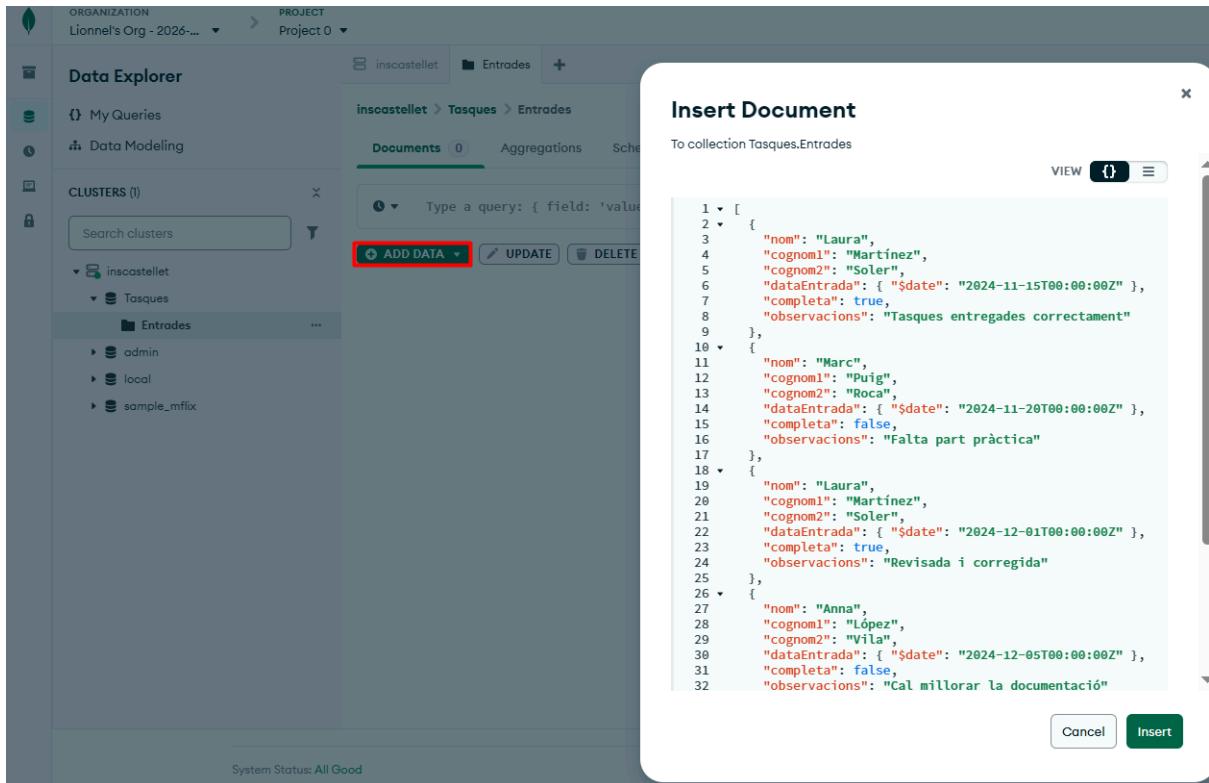
Time-series collections efficiently store sequences of measurements over a period of time. [Learn More](#)

➤ **Additional preferences** (e.g. Custom collation, Clustered collections)

Cancel **Create Database**

4. Inserció 5 registres a tasques

Li donarem a “ADD DATA” i posarem les dades per insertar els 5 registres.



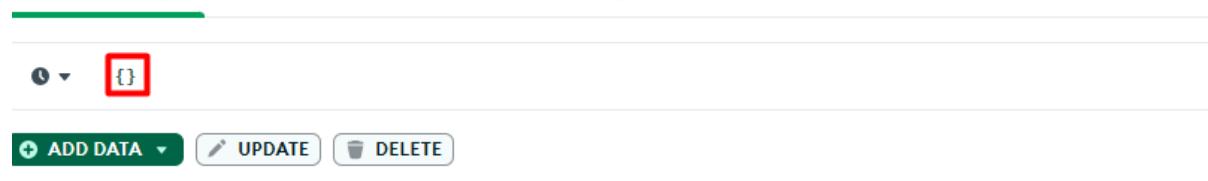
The screenshot shows the MongoDB Compass interface. On the left, the Data Explorer sidebar shows clusters like 'incastellet', 'Tasques', and 'Entrades'. The main area displays the 'incastellet > Tasques > Entrades' collection with 0 documents. A modal window titled 'Insert Document' is open, prompting the user to 'To collection Tasques.Entradas'. The document body contains the following JSON code:

```
1  [  
2   {  
3     "nom": "Laura",  
4     "cognom1": "Martínez",  
5     "cognom2": "Soler",  
6     "dataEntrada": { "$date": "2024-11-15T00:00:00Z" },  
7     "completa": true,  
8     "observacions": "Tasques entregades correctament"  
9   },  
10  {  
11    "nom": "Marc",  
12    "cognom1": "Puig",  
13    "cognom2": "Roca",  
14    "dataEntrada": { "$date": "2024-11-20T00:00:00Z" },  
15    "completa": false,  
16    "observacions": "Falta part pràctica"  
17  },  
18  {  
19    "nom": "Laura",  
20    "cognom1": "Martínez",  
21    "cognom2": "Soler",  
22    "dataEntrada": { "$date": "2024-12-01T00:00:00Z" },  
23    "completa": true,  
24    "observacions": "Revisada i corregida"  
25  },  
26  {  
27    "nom": "Anna",  
28    "cognom1": "López",  
29    "cognom2": "Vila",  
30    "dataEntrada": { "$date": "2024-12-05T00:00:00Z" },  
31    "completa": false,  
32    "observacions": "Cal millorar la documentació"  
]
```

At the bottom right of the modal are 'Cancel' and 'Insert' buttons.

5. Cerques

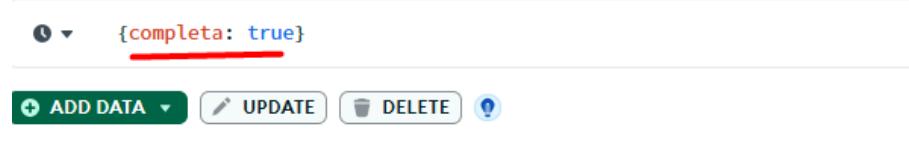
Llistar totes les tasques



```
_id: ObjectId('695fcdc39491e6280542fa7f')
nom : "Laura"
cognom1 : "Martínez"
cognom2 : "Soler"
dataEntrada : 2024-11-15T00:00:00.000+00:00
completa : true
observacions : "Tasques entregades correctament"
```

```
_id: ObjectId('695fcdc39491e6280542fa80')
nom : "Marc"
cognom1 : "Puig"
cognom2 : "Roca"
dataEntrada : 2024-11-20T00:00:00.000+00:00
completa : false
```

Llistar les tasques completades.



```
_id: ObjectId('695fcdc39491e6280542fa7f')
nom : "Laura"
cognom1 : "Martínez"
cognom2 : "Soler"
dataEntrada : 2024-11-15T00:00:00.000+00:00
completa : true
observacions : "Tasques entregades correctament"
```



```
_id: ObjectId('695fcdc39491e6280542fa81')
nom : "Laura"
cognom1 : "Martínez"
cognom2 : "Soler"
dataEntrada : 2024-12-01T00:00:00.000+00:00
completa : true
observacions : "Revisada i corregida"
```



```
_id: ObjectId('695fcdc39491e6280542fa83')
nom : "Marc"
```

Llistar les tasques d'un alumne específic

Filter: {nom: "Laura"} {nom: "Laura"}

ADD DATA UPDATE DELETE ?

```
_id: ObjectId('695fc39491e6280542fa7f')
nom : "Laura"
cognom1 : "Martínez"
cognom2 : "Soler"
dataEntrada : 2024-11-15T00:00:00.000+00:00
completa : true
observacions : "Tasques entregades correctament"
```



```
_id: ObjectId('695fc39491e6280542fa81')
nom : "Laura"
cognom1 : "Martínez"
cognom2 : "Soler"
dataEntrada : 2024-12-01T00:00:00.000+00:00
completa : true
observacions : "Revisada i corregida"
```

Cerca les tasques de determinat alumne i completades

Filter: {nom: "Laura", completa: true} {nom: "Laura", completa: true}

ADD DATA UPDATE DELETE ?

```
_id: ObjectId('695fc39491e6280542fa7f')
nom : "Laura"
cognom1 : "Martínez"
cognom2 : "Soler"
dataEntrada : 2024-11-15T00:00:00.000+00:00
completa : true
observacions : "Tasques entregades correctament"
```



```
_id: ObjectId('695fc39491e6280542fa81')
nom : "Laura"
cognom1 : "Martínez"
cognom2 : "Soler"
dataEntrada : 2024-12-01T00:00:00.000+00:00
completa : true
observacions : "Revisada i corregida"
```

Llista les tasques completades i amb observacions.

⌚ ▾ {completa: true, observacions: { \$exists: true, \$ne: ""} }

ADD DATA UPDATE DELETE ⓘ

```
_id: ObjectId('695fcdc39491e6280542fa7f')
nom : "Laura"
cognom1 : "Martínez"
cognom2 : "Soler"
dataEntrada : 2024-11-15T00:00:00.000+00:00
completa : true
observacions : "Tasques entregades correctament"
```



```
_id: ObjectId('695fcdc39491e6280542fa81')
nom : "Laura"
cognom1 : "Martínez"
cognom2 : "Soler"
dataEntrada : 2024-12-01T00:00:00.000+00:00
completa : true
observacions : "Revisada i corregida"
```

Llista les tasques completades després d'una certa data.

⌚ ▾ {completa: true, dataEntrada: { \$gt: ISODate("2024-11-30") }}

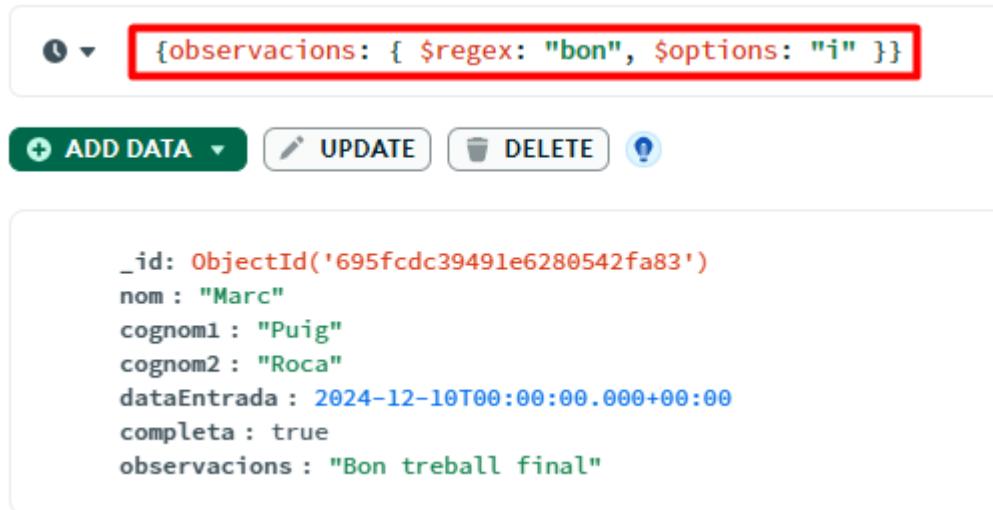
ADD DATA UPDATE DELETE ⓘ

```
_id: ObjectId('695fcdc39491e6280542fa81')
nom : "Laura"
cognom1 : "Martínez"
cognom2 : "Soler"
dataEntrada : 2024-12-01T00:00:00.000+00:00
completa : true
observacions : "Revisada i corregida"
```



```
_id: ObjectId('695fcdc39491e6280542fa83')
nom : "Marc"
cognom1 : "Puig"
cognom2 : "Roca"
dataEntrada : 2024-12-10T00:00:00.000+00:00
completa : true
observacions : "Bon treball final"
```

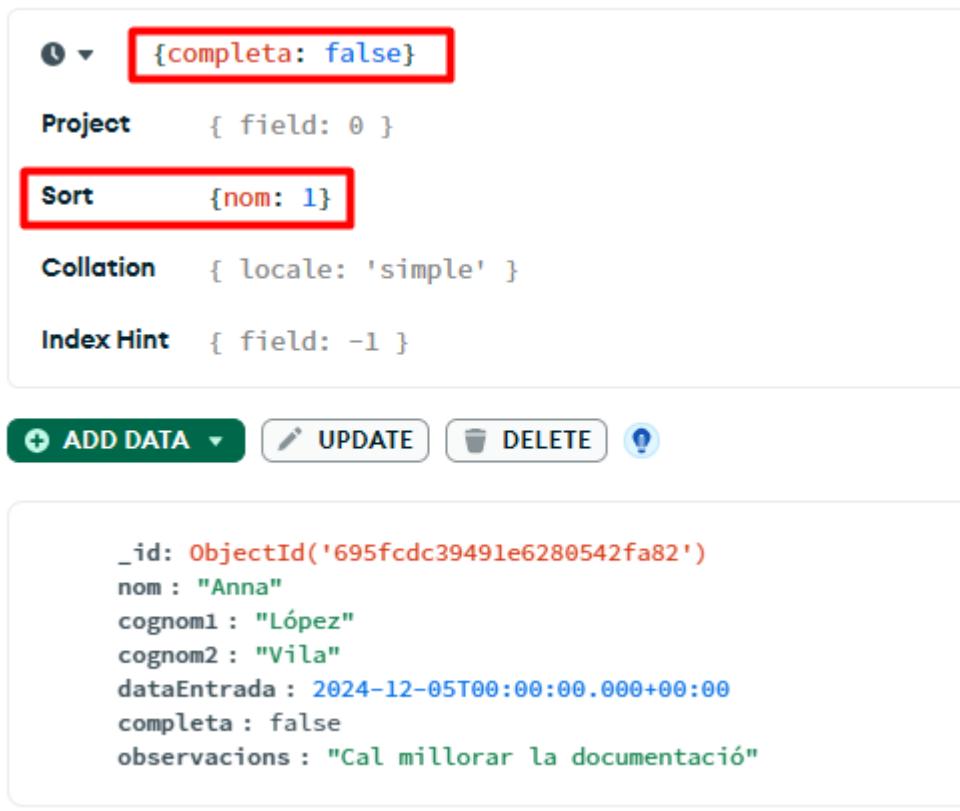
Llista les tasques amb observacions que continguin una paraula específica.



The screenshot shows a MongoDB query interface. At the top, there is a search bar containing the query: `{observacions: { $regex: "bon", $options: "i" }}`. Below the search bar are three buttons: ADD DATA, UPDATE, and DELETE. The main area displays a single document with the following fields and values:

```
_id: ObjectId('695fc39491e6280542fa83')
nom : "Marc"
cognom1 : "Puig"
cognom2 : "Roca"
dataEntrada : 2024-12-10T00:00:00.000+00:00
completa : true
observacions : "Bon treball final"
```

Llista les tasques no completades ordenades alfabèticament.



The screenshot shows a MongoDB query interface with several parameters set: `{completa: false}` in the search bar, `Project { field: 0 }`, `Sort {nom: 1}` (with the sort field highlighted), `Collation { locale: 'simple' }`, and `Index Hint { field: -1 }`. Below these parameters are the same three buttons: ADD DATA, UPDATE, and DELETE. The main area displays a single document with the following fields and values:

```
_id: ObjectId('695fc39491e6280542fa82')
nom : "Anna"
cognom1 : "López"
cognom2 : "Vila"
dataEntrada : 2024-12-05T00:00:00.000+00:00
completa : false
observacions : "Cal millorar la documentació"
```

Llista les tasques entre dues dates específiques.

⌚ ▾ `{dataEntrada: { $gte: ISODate("2024-11-20"), $lte: ISODate("2024-12-05") }}`

ADD DATA UPDATE DELETE ⓘ

```
_id: ObjectId('695fcfdc39491e6280542fa80')
nom : "Marc"
cognom1 : "Puig"
cognom2 : "Roca"
dataEntrada : 2024-11-20T00:00:00.000+00:00
completa : false
observacions : "Falta part pràctica"

_id: ObjectId('695fcfdc39491e6280542fa81')
nom : "Laura"
cognom1 : "Martínez"
cognom2 : "Soler"
dataEntrada : 2024-12-01T00:00:00.000+00:00
completa : true
observacions : "Revisada i corregida"
```

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

⌚ ▾ `{observacions: { $regex: "^Bon", $options: "i" }}`

Project { field: 0 }

Sort {dataEntrada: -1}

Collation { locale: 'simple' }

Index Hint { field: -1 }

ADD DATA UPDATE DELETE ⓘ

```
_id: ObjectId('695fcfdc39491e6280542fa83')
nom : "Marc"
cognom1 : "Puig"
cognom2 : "Roca"
dataEntrada : 2024-12-10T00:00:00.000+00:00
completa : true
observacions : "Bon treball final"
```

Autor: Lionnel Laguna Fernandez



Este obra está bajo una [licencia de Creative Commons Reconocimiento-NoComercial 4.0 Internacional](#).