

Lesson 01 Demo 02

Accessing Structured Data with Arrays

Objective: To access structured data with arrays in MongoDB to organize it for database operations

Tools required: MongoDB Compass

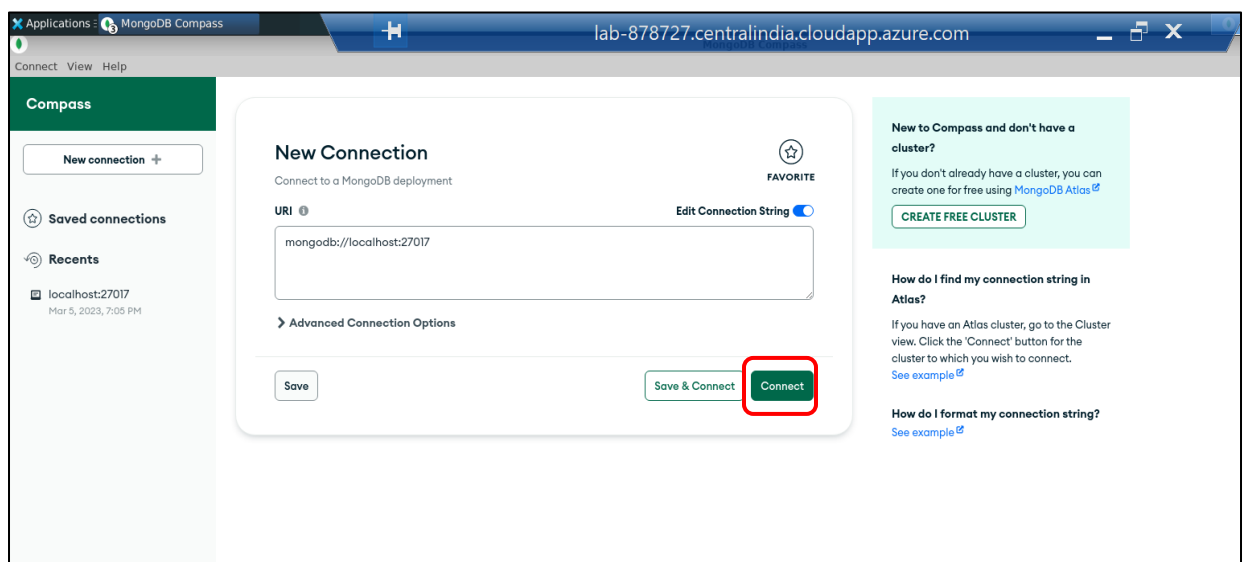
Prerequisites: Knowledge of JavaScript and arrays

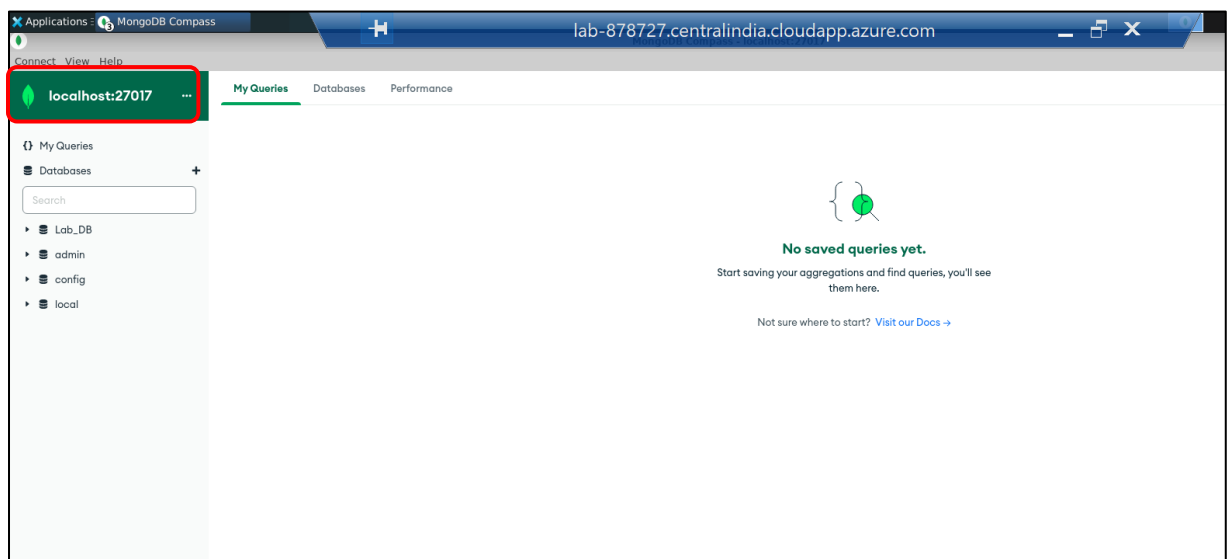
Steps to be followed:

1. Connect to MongoDB Compass using the virtual machine extension
2. Create databases in MongoDB Compass
3. Create a collection in the database
4. Insert data into the collection
5. Access the document from the collection

Step 1: Connect to MongoDB Compass using the virtual machine extension

- 1.1 To create a new connection in MongoDB Compass, enter **mongodb://localhost:27017** in the URL box and click on the **Connect** button

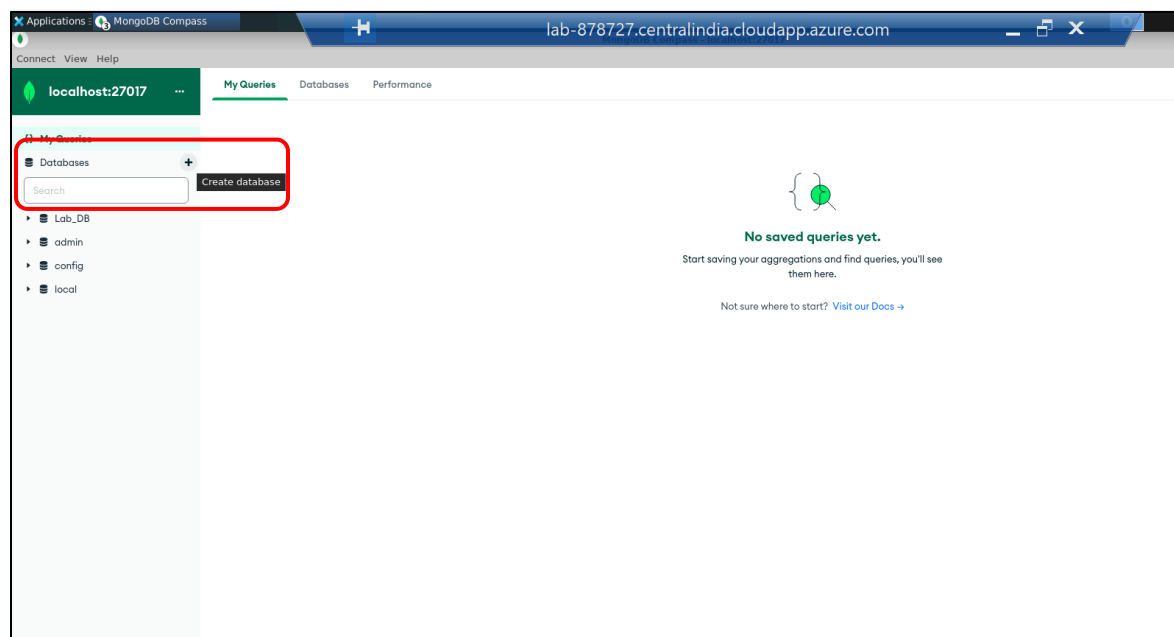




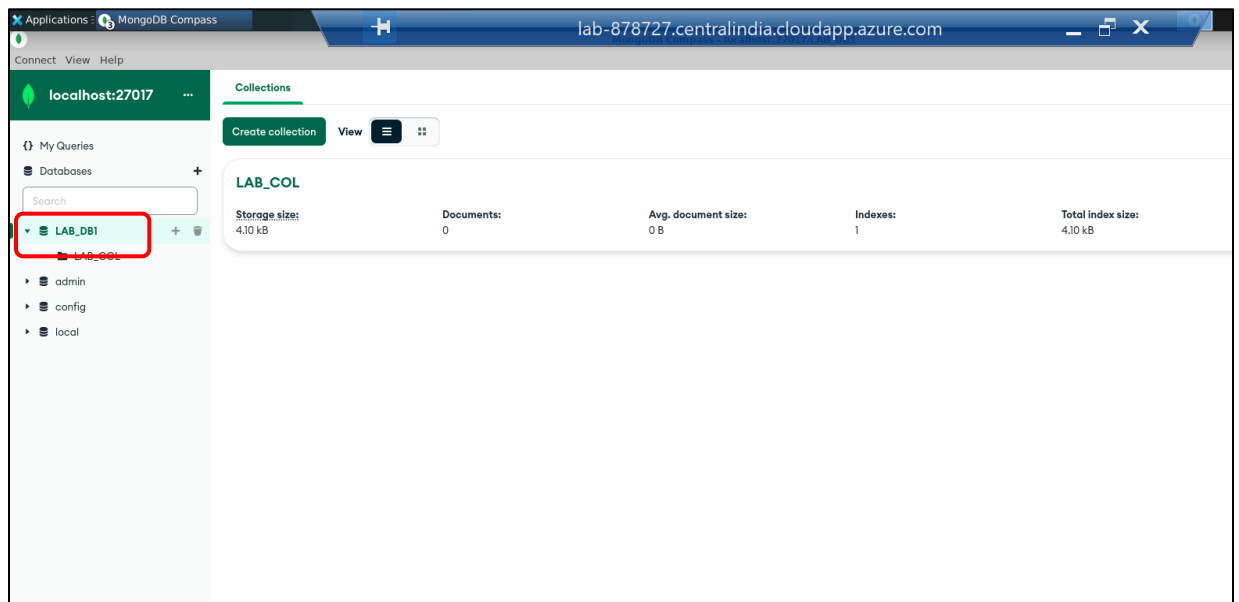
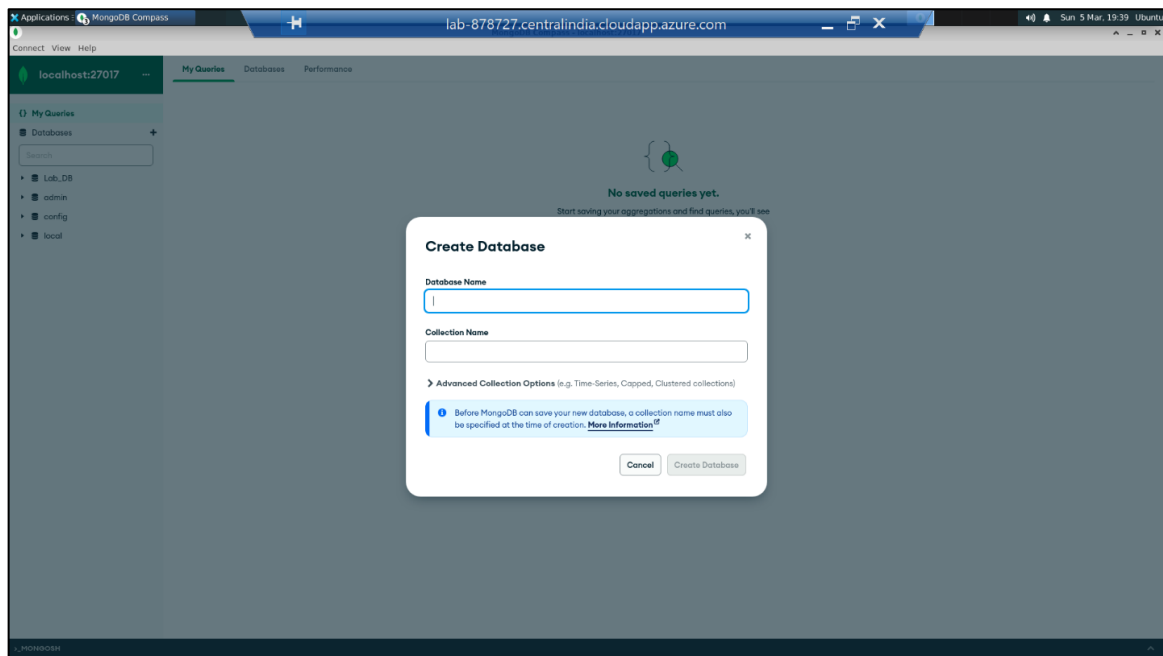
The connection has been established to the local host in MongoDB Compass.

Step 2: Create databases in MongoDB Compass

2.1 To create a database, click on the **Databases** button



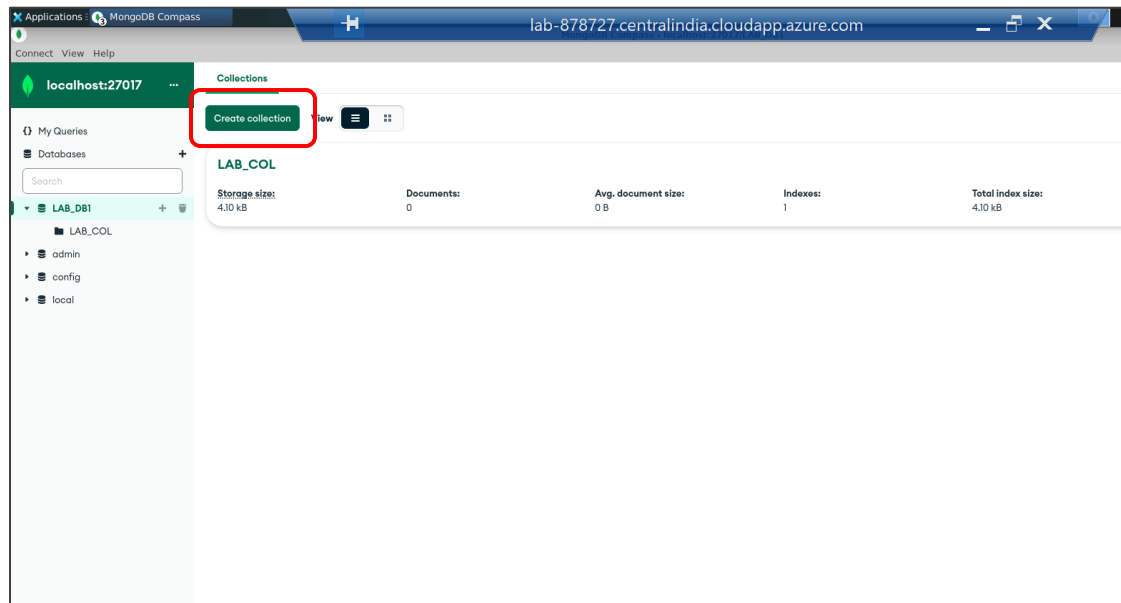
2.2 Once the pop-up window opens, enter the **Database Name** and **Collection Name**, and click **Create Database**



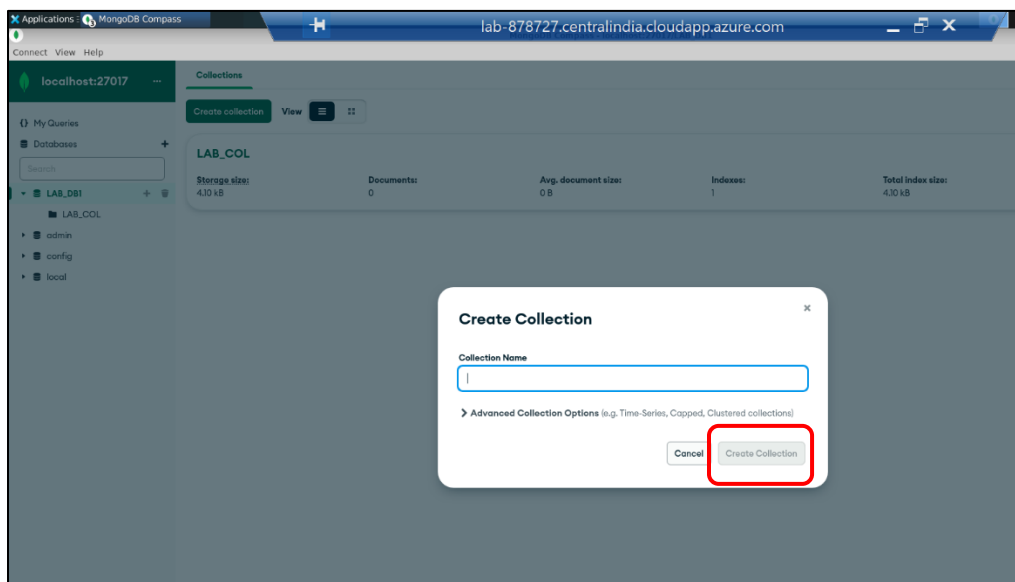
The database has been created.

Step 3: Create a collection in the database

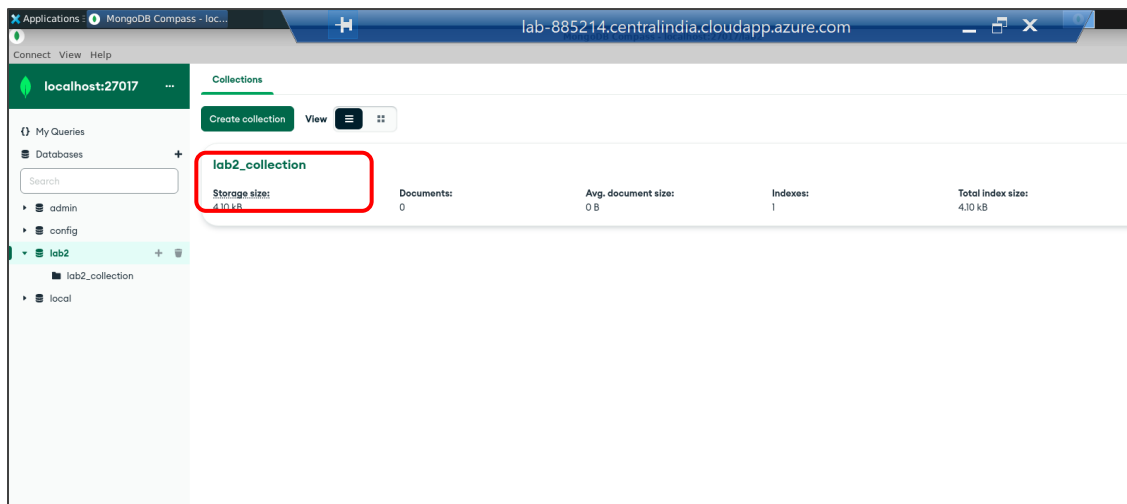
3.1 To create a collection, click on **Create Collection**



3.2 Enter the **Collection Name** and click the **Create Collection** button

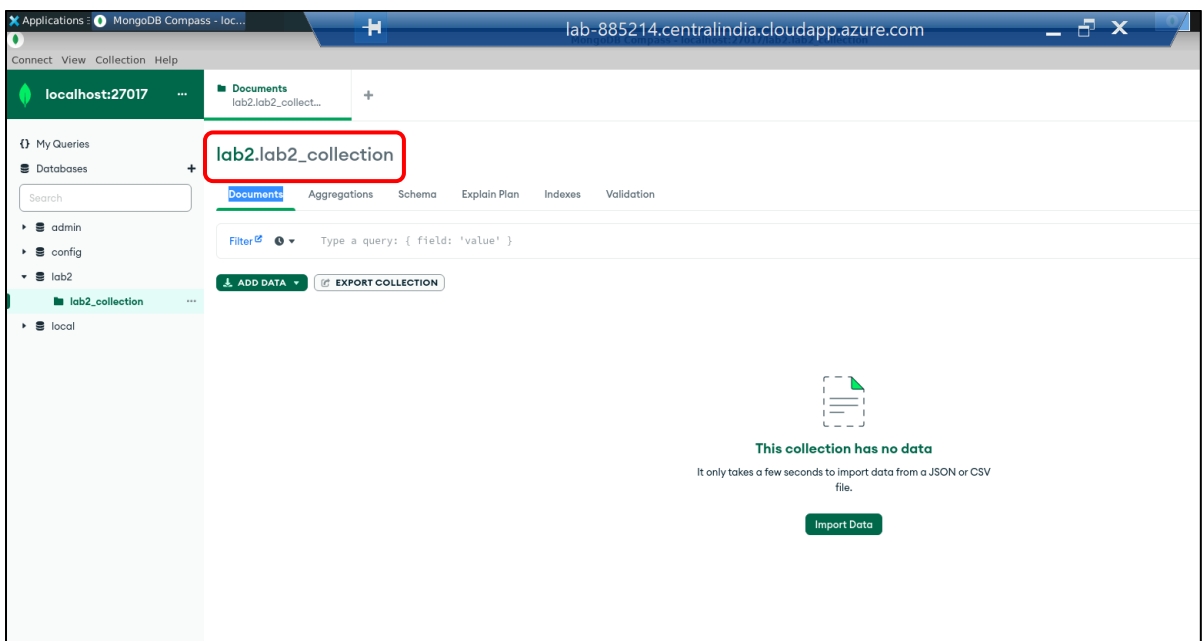


The collection has been created.

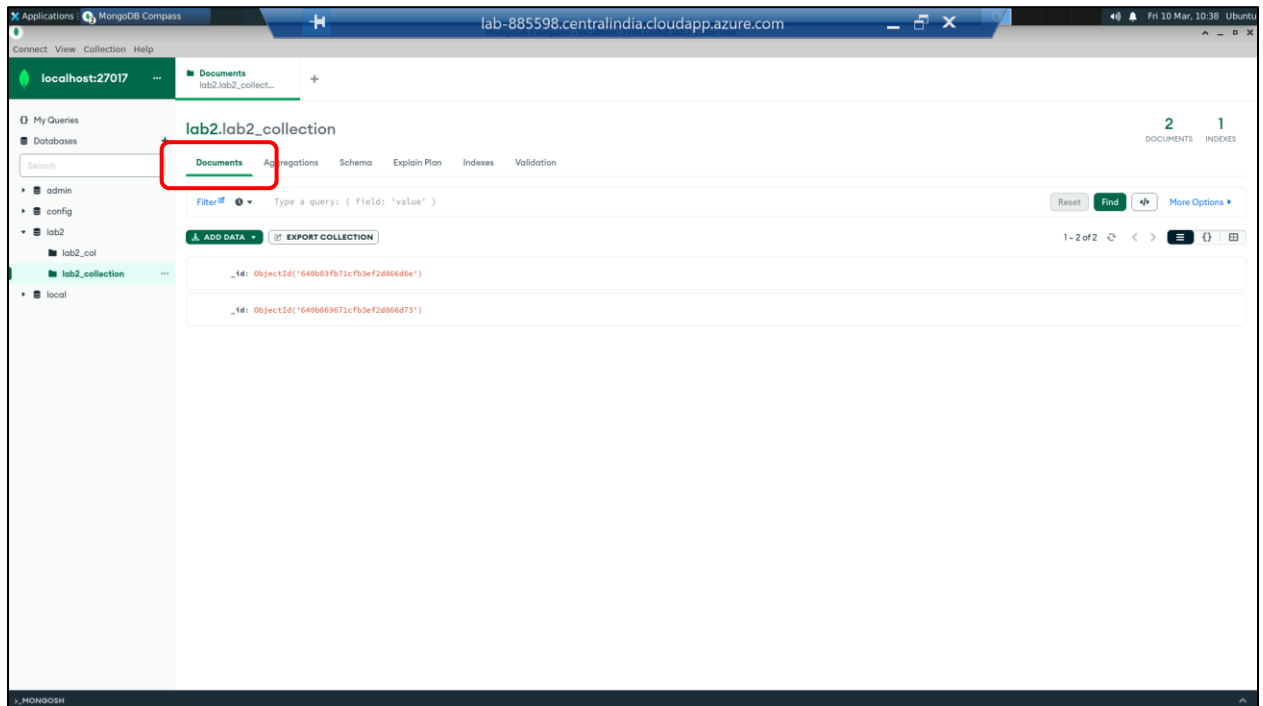


Step 4: Insert data into the collection

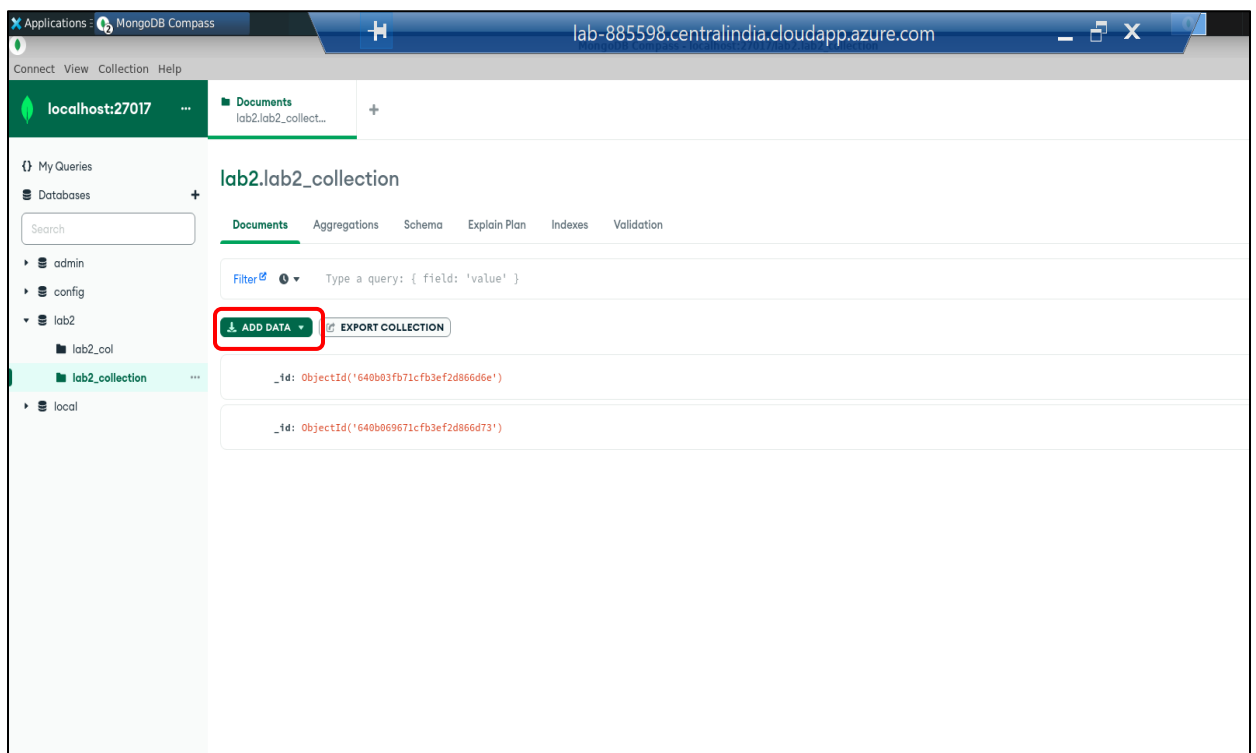
4.1 Click on the **collection name** to open the collection



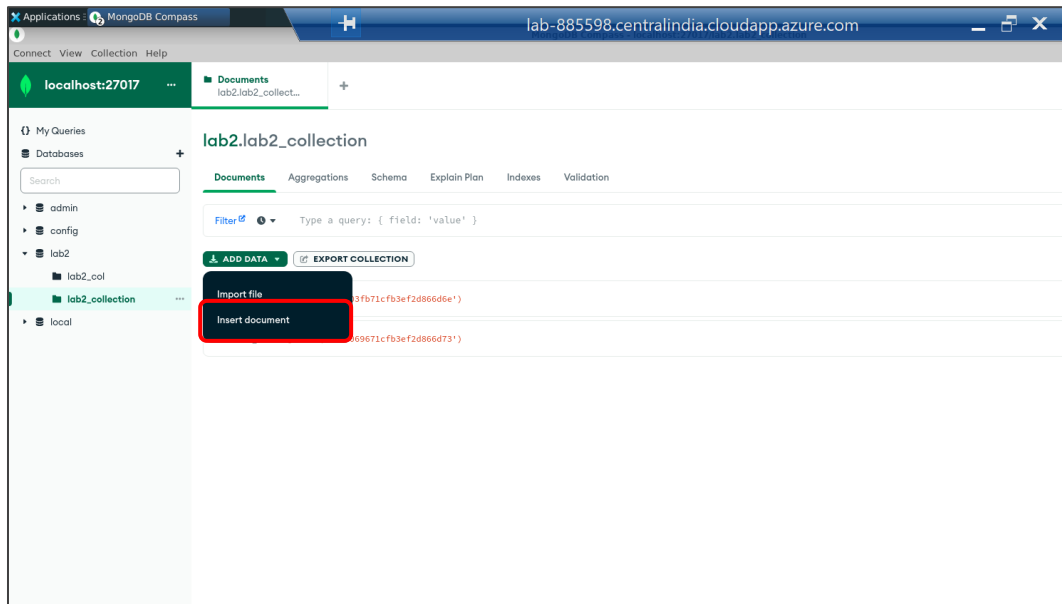
4.2 Click on the **Documents** tab



4.3 Click on the **ADD DATA** button

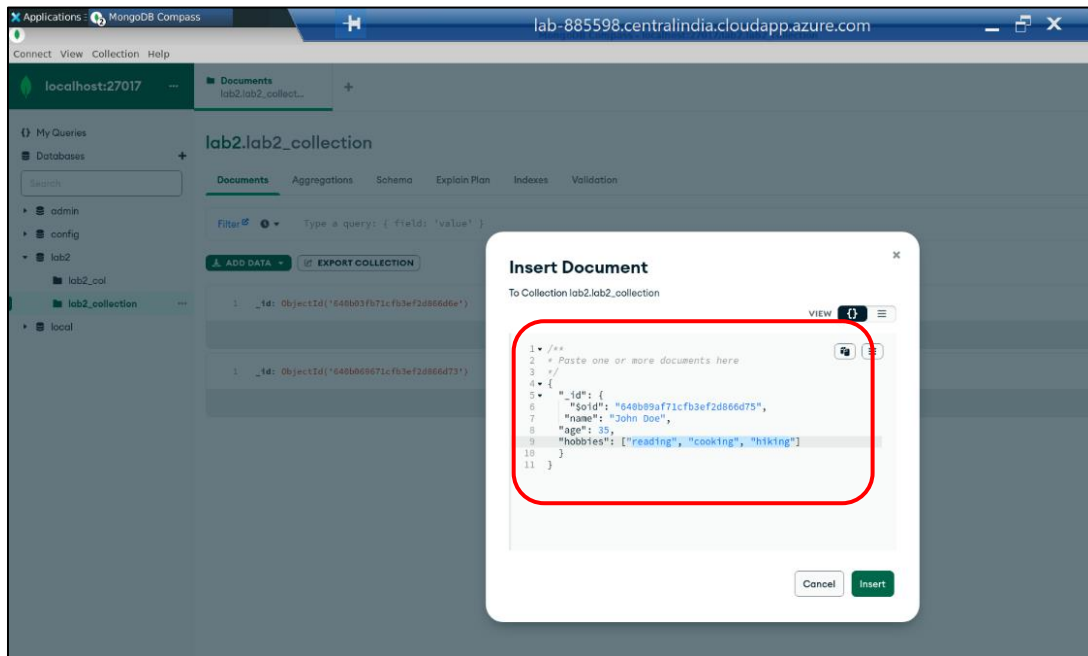


4.4 Click the **Insert Document** option to add a new stage to the pipeline

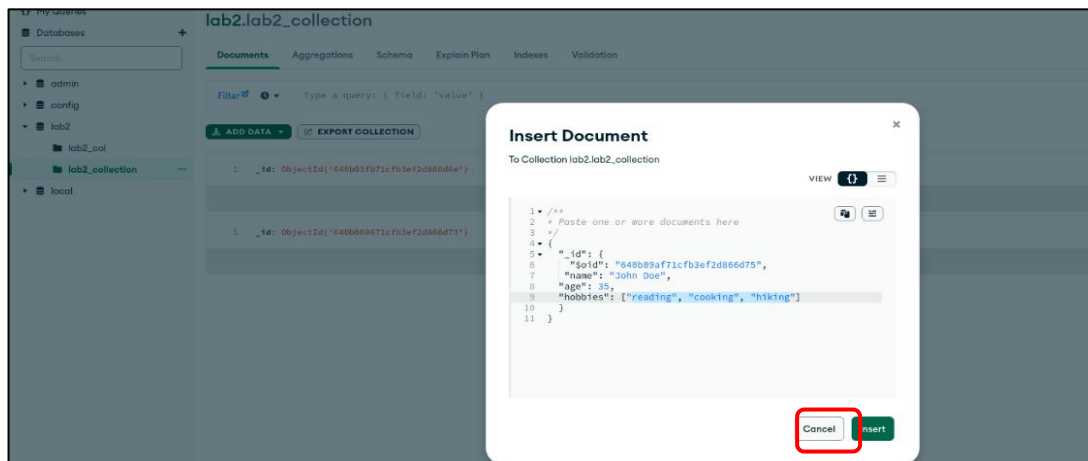


4.5 Enter the following code to insert the required data:

```
{
  "_id" : {
    "$oid": "6408b89af71cfb3ef2d866d75",
    "name": " John Doe,"
    "age": 35,
    "hobbies": [" reading", " cooking", " hiking"]
  }
}
```

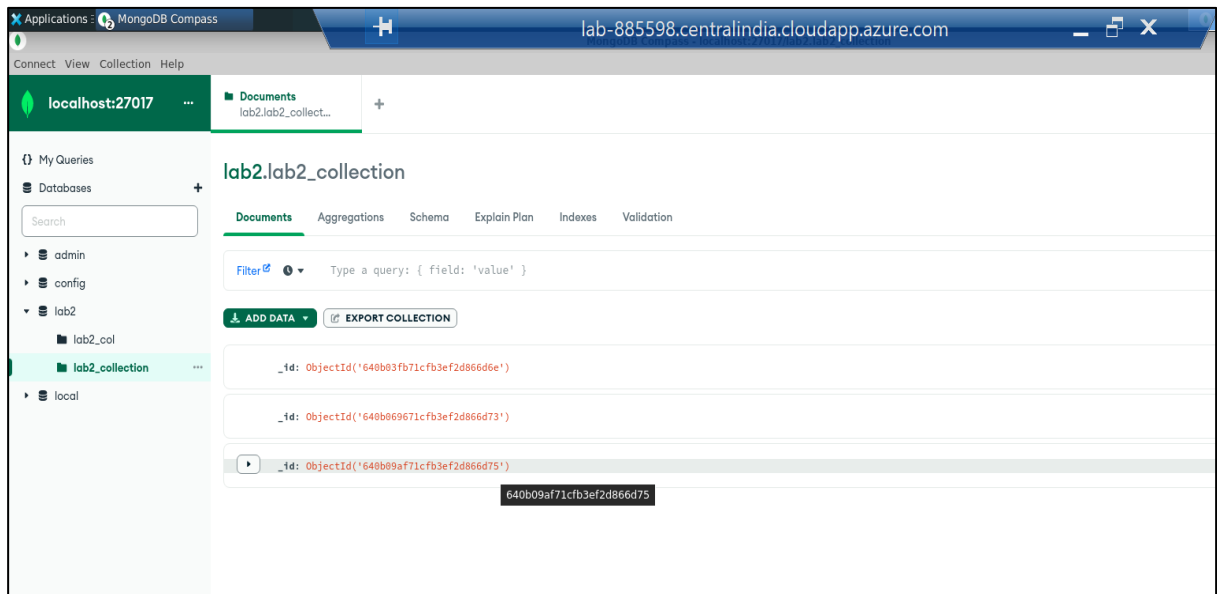


4.6 Click Insert



Step 5: Access the document from the collection

5.1 The document will be displayed in the **Documents** tab. To access the structured data, click on the **specified _id** field.



By following these steps, you have successfully accessed the structured data with an array of documents in MongoDB to organize it for database operations.