

## Lesson 01 Demo 03

### Accessing Documents Using NoSQL Commands

**Objective:** To access the documents of a collection in MongoDB to perform read actions

**Tools required:** MongoDB Compass

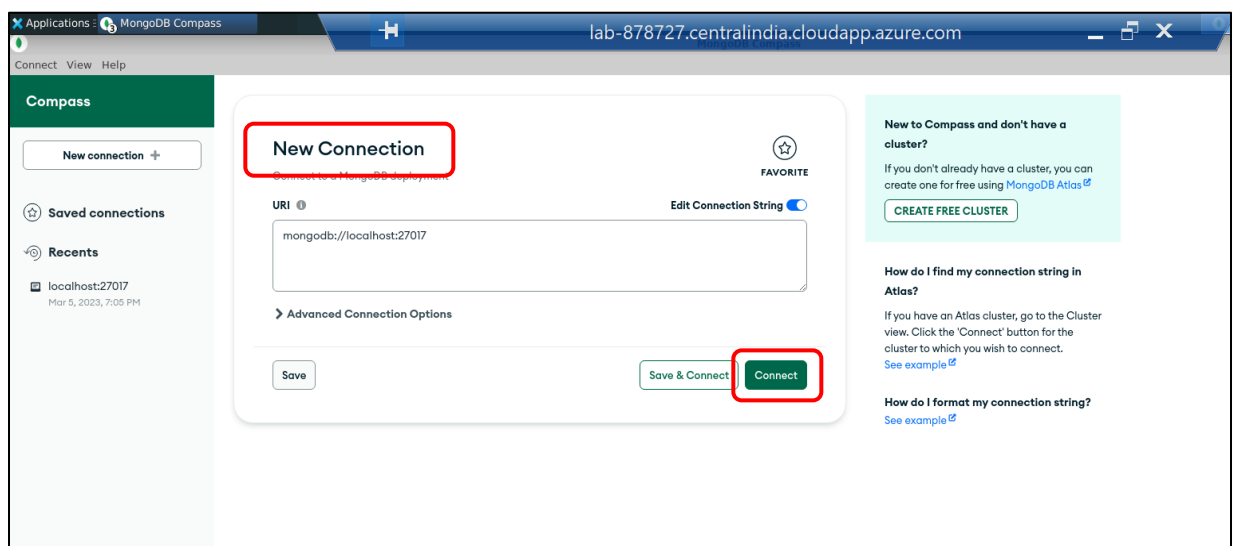
**Prerequisites:** Knowledge of JavaScript and SQL

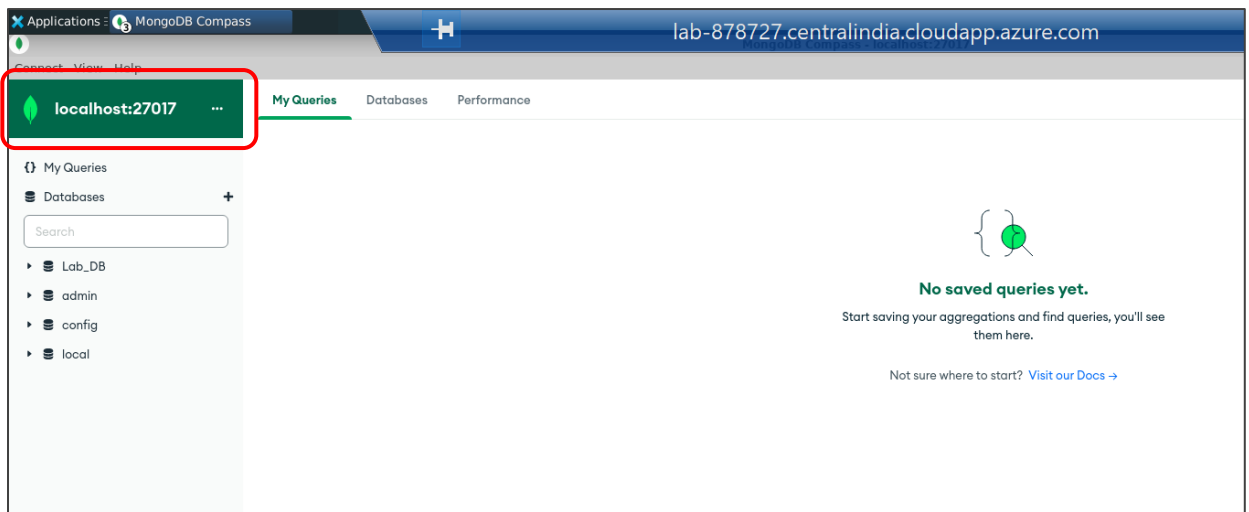
Steps to be followed:

1. Connect to MongoDB Compass by using virtual machine extensions
2. Create databases in the MongoDB Compass
3. Create a collection in the database
4. Insert a document into the collection
5. Access the document using NoSQL commands

#### Step 1: Connect to MongoDB Compass by using virtual machine extensions

- 1.1 Enter **mongodb://localhost:27017** in the URL box to create a **New Connection** in MongoDB Compass, then click **Connect**

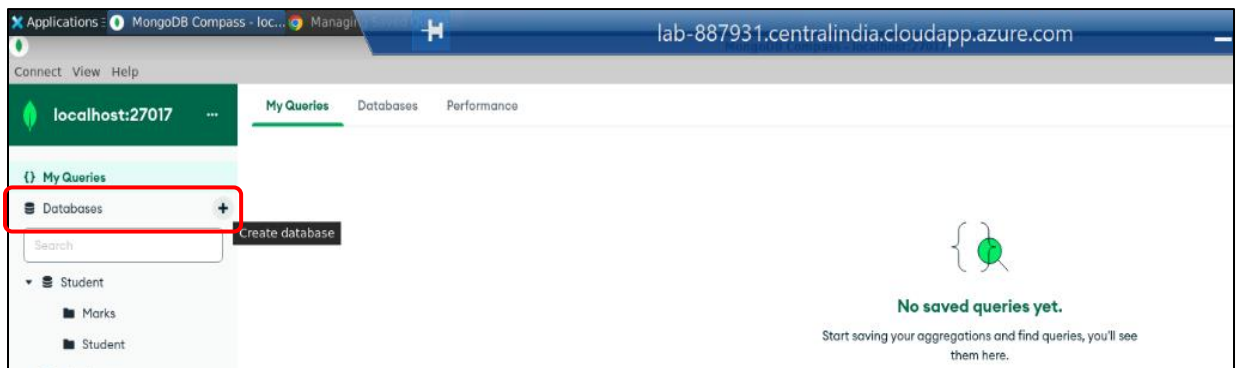




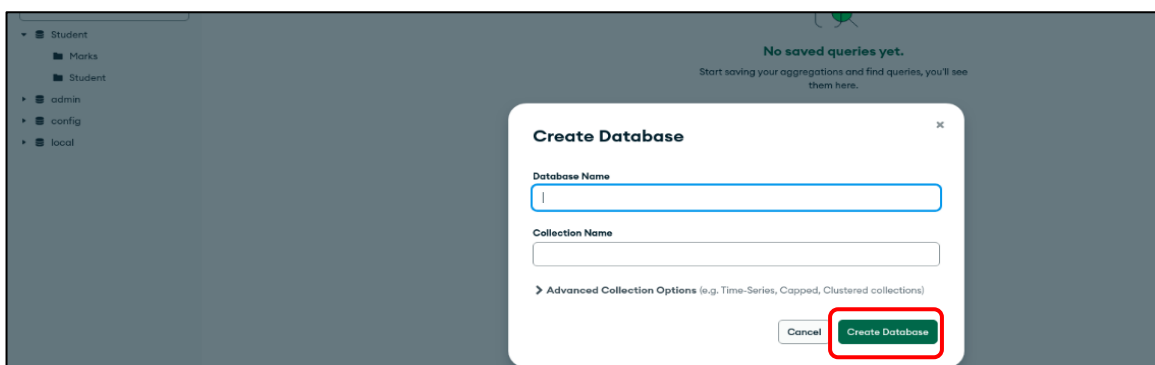
The connection has been established to the local host in MongoDB Compass.

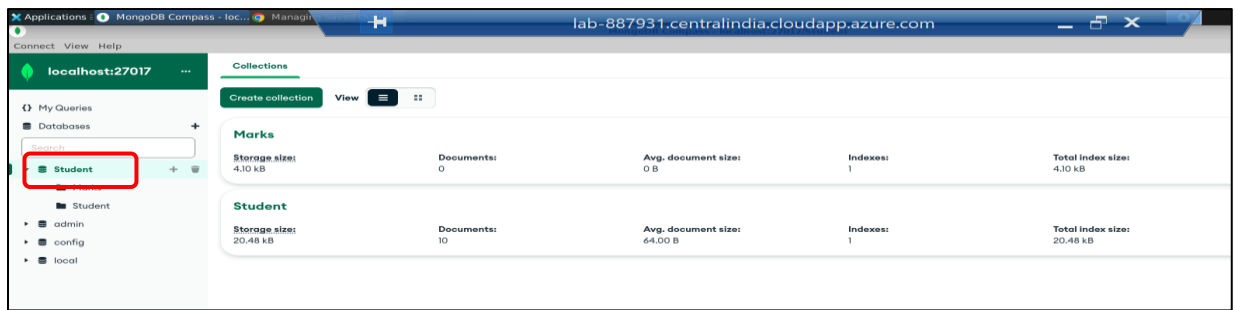
## Step 2: Create databases in the MongoDB Compass

### 2.1 To create a database, click on **Databases**



### 2.2 Enter the **Database Name** and the **Collection Name** and click on **Create Database**





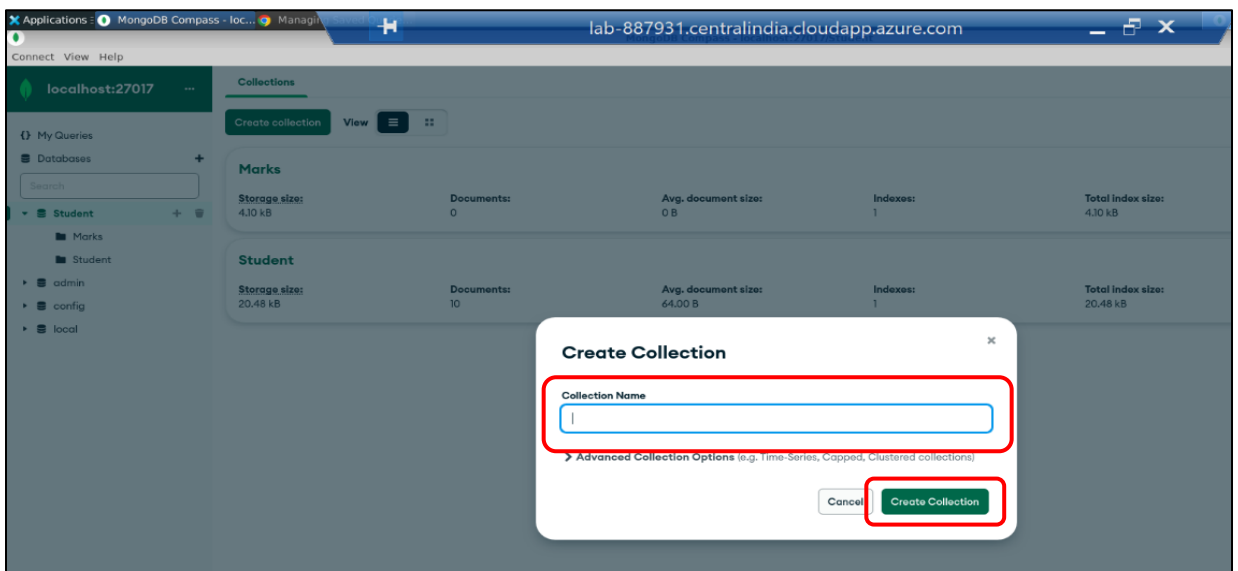
The database creation is complete.

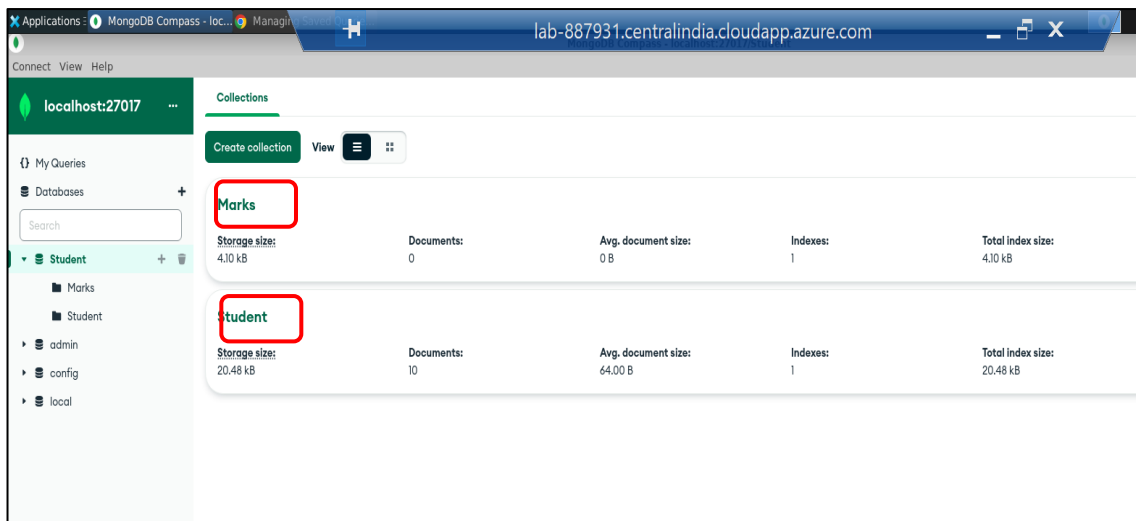
## Step 3: Create a collection in the database

### 3.1 Click on **Create Collection** to create a collection



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

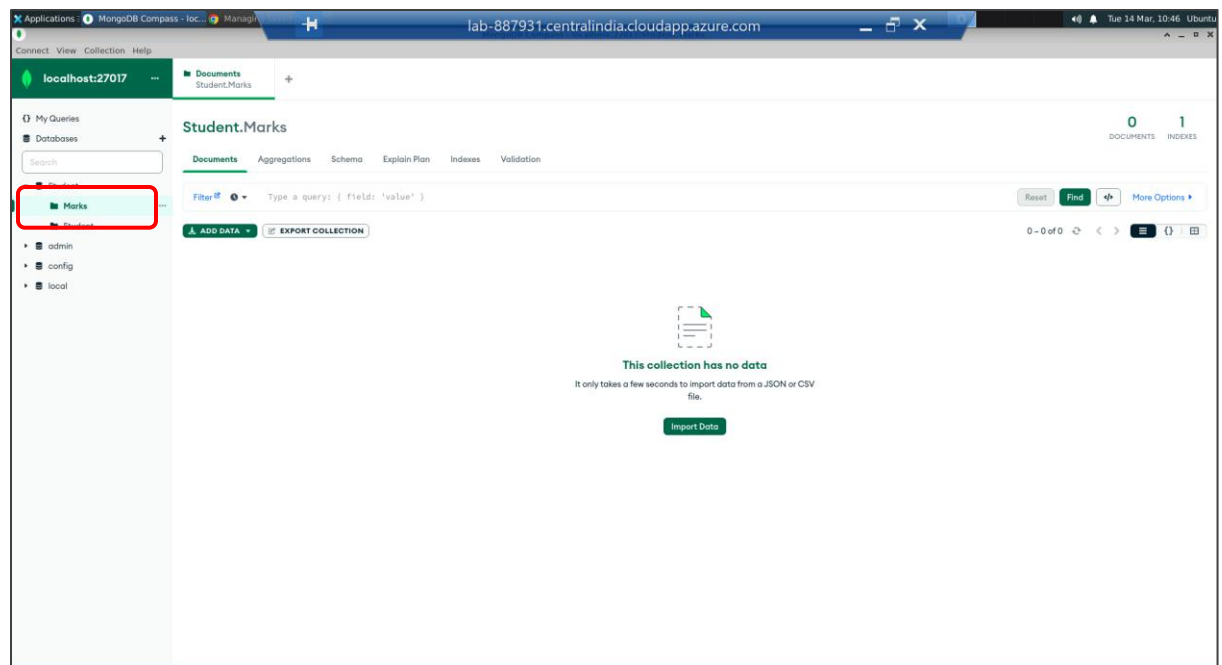




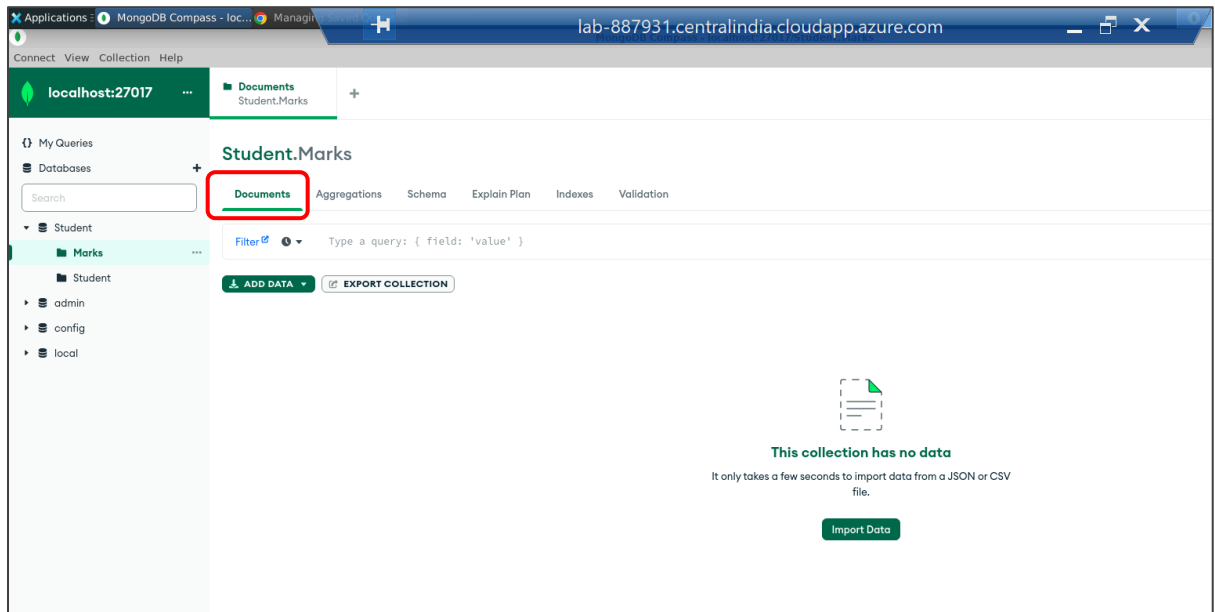
The collection has been created inside the database.

## Step 4: Insert a document into the collection

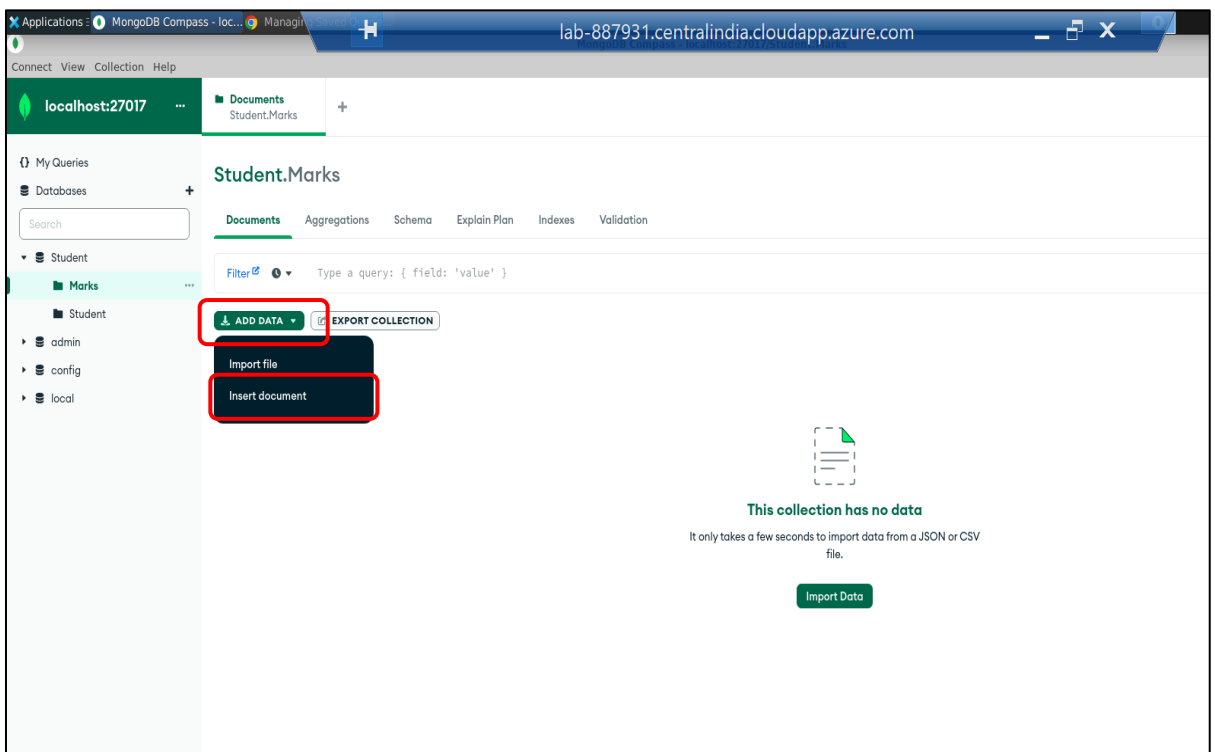
### 4.1 Select the collection in which the tasks has to be performed



## 4.2 Click on the **Documents** tab

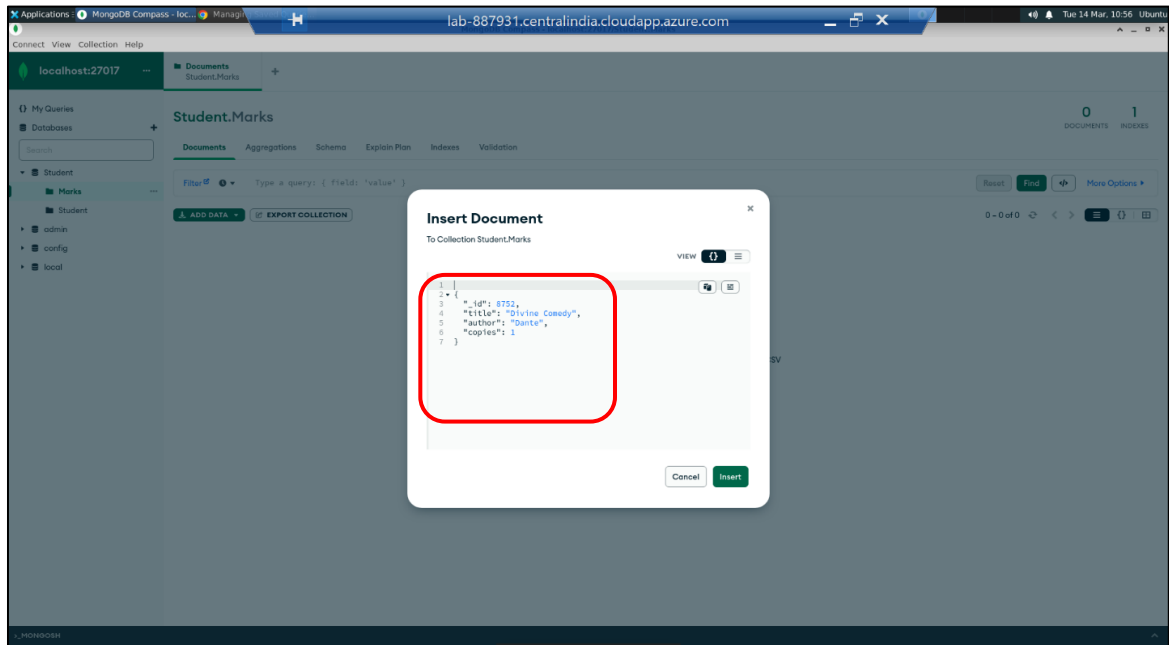


## 4.3 Click on the **ADD DATA** button and select **Insert document**

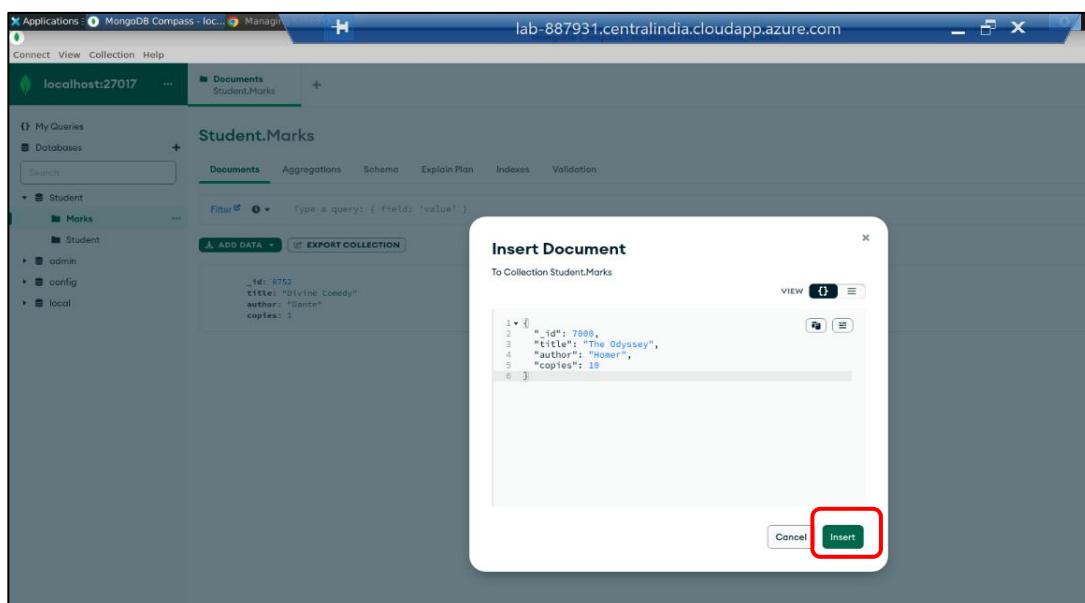


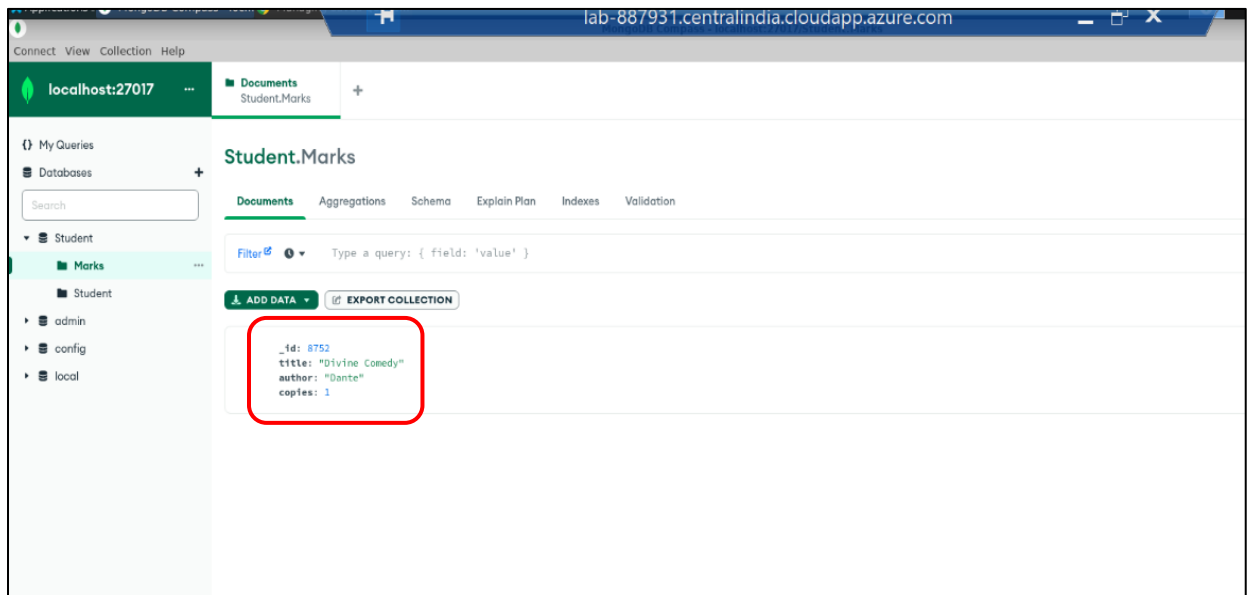
4.4 Enter the following code to insert the data:

```
{
  "_id" : 8752,
  "title" : "Divine Comedy",
  "author" : "Dante",
  "copies" : 1
}
```



4.5 Click on the **Insert** button

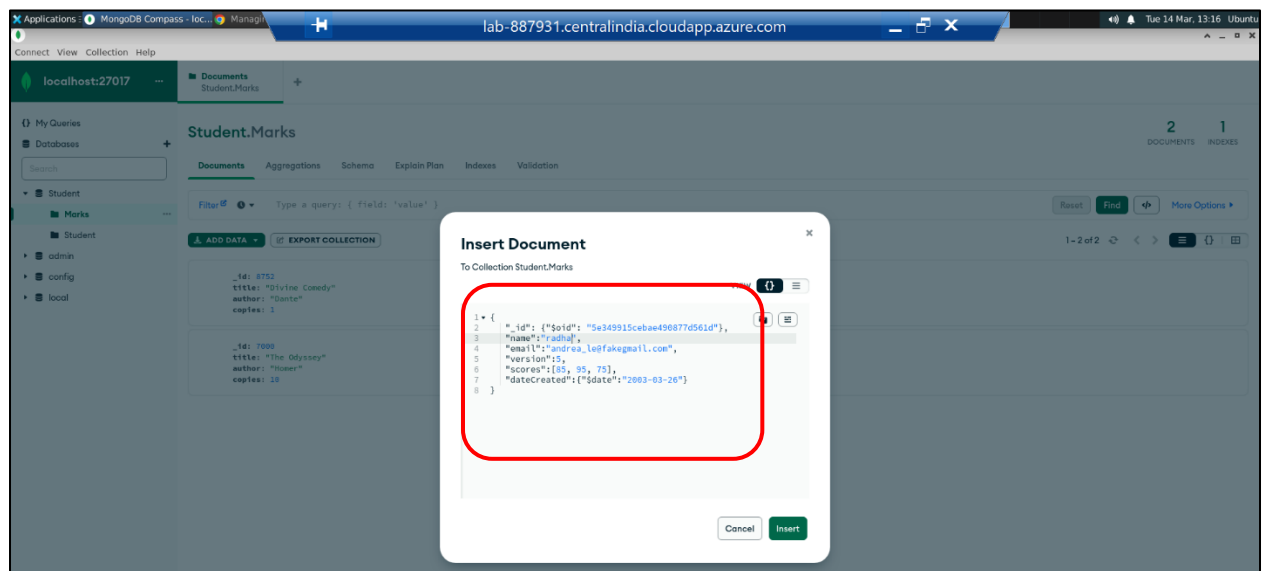




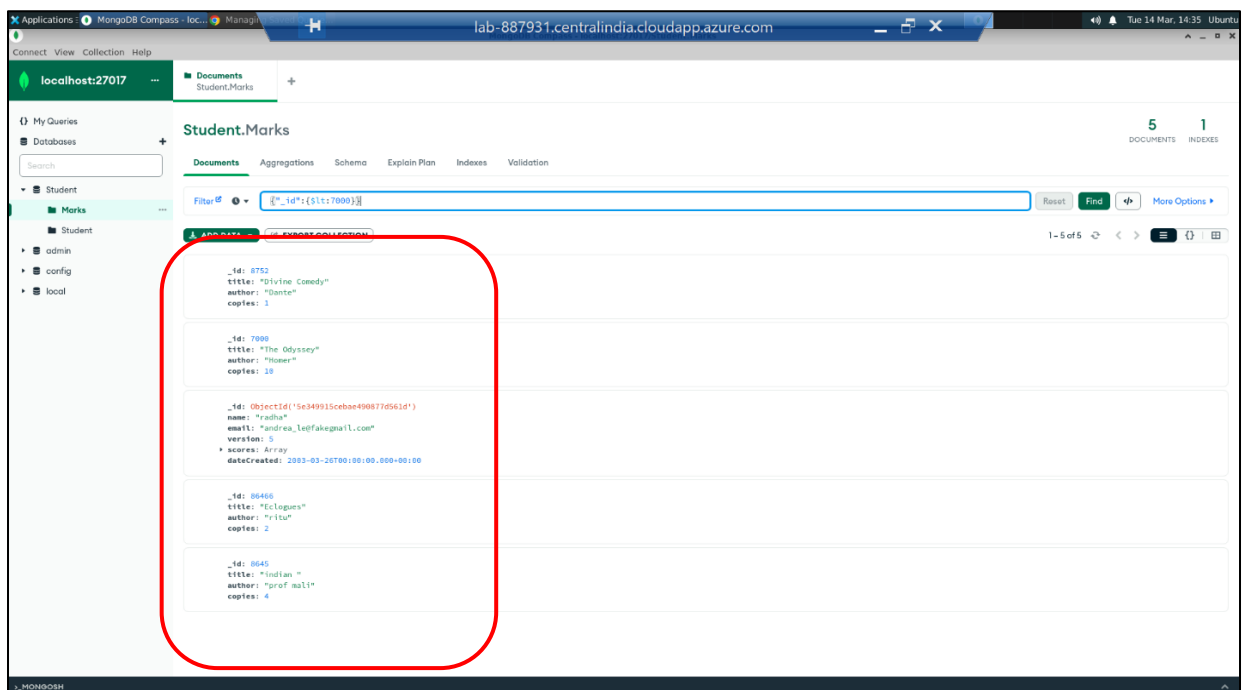
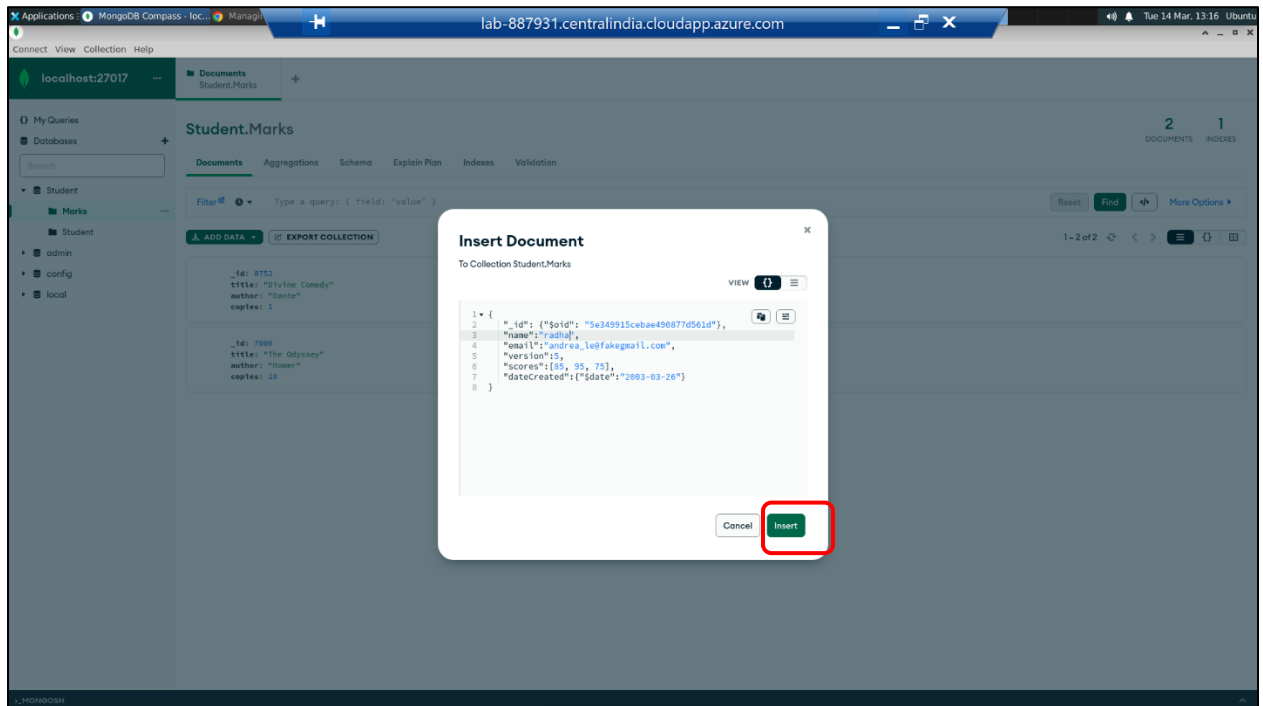
The document has been inserted.

4.6 To add more documents, type the relevant code

```
{
  "_id": {"_oid": "5e349915cebase490877d561d"},
  "name": " radha",
  "email": " andrea_le@akegmail.com",
  "version": 5,
  "scores": [ 85,95,75] ,
  "dateCreated": {" $date":" 2003-03-26"}
}
```



#### 4.7 Click **Insert** for each document



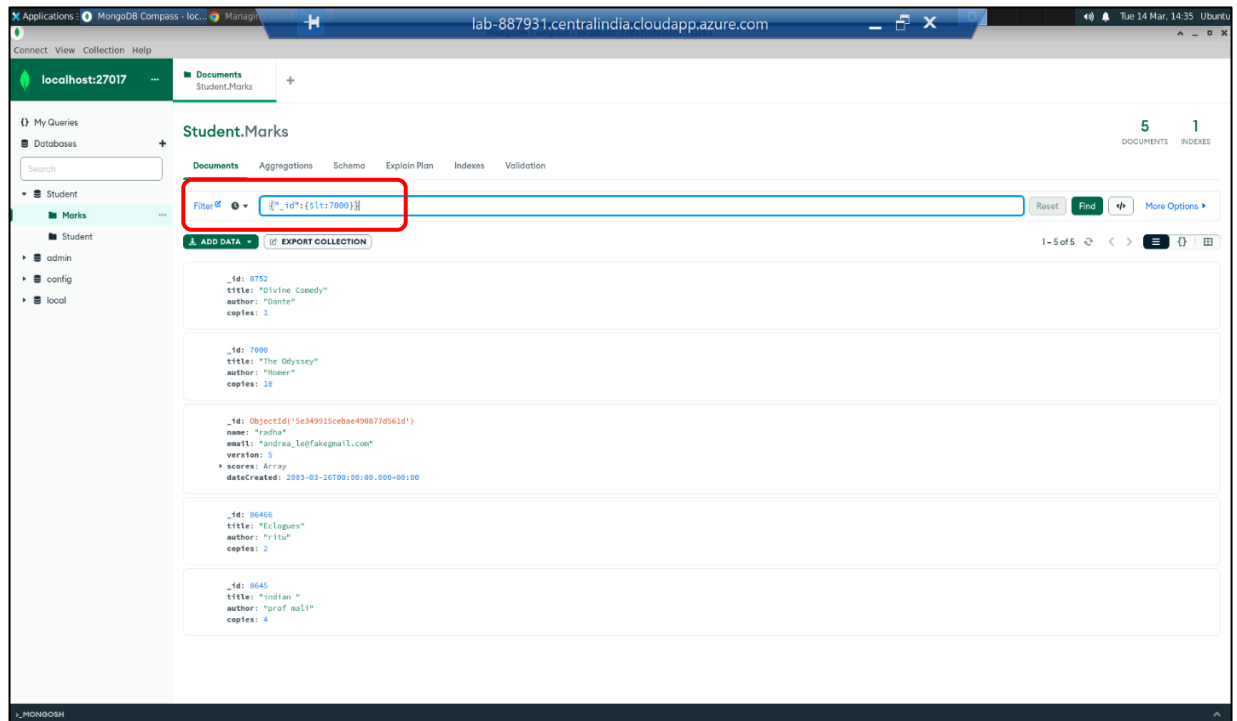
All the inserted documents can be seen on the screen.



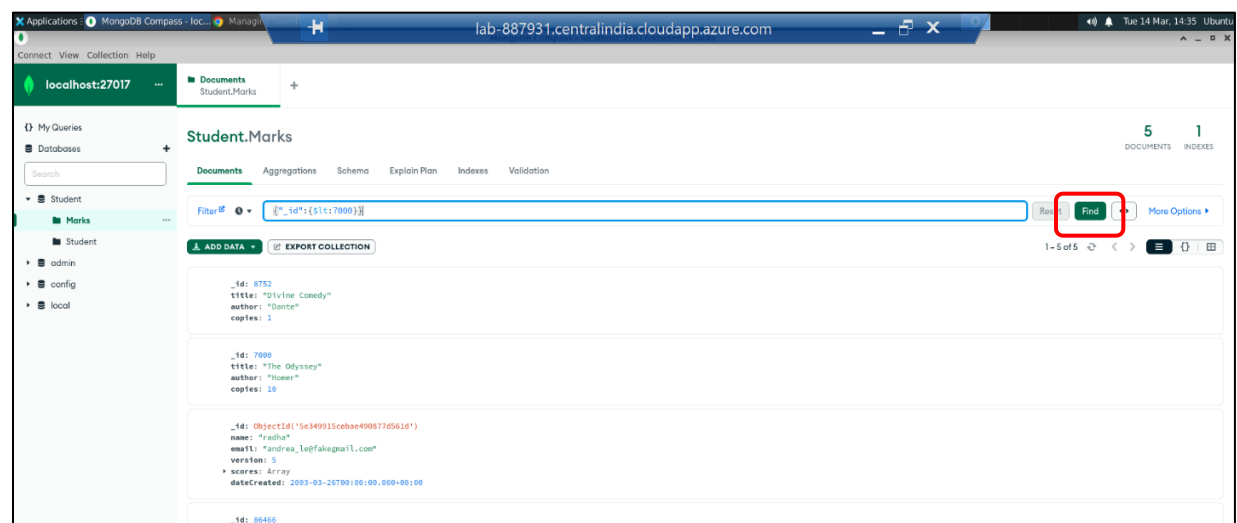
## Step 5: Access the document using NoSQL commands

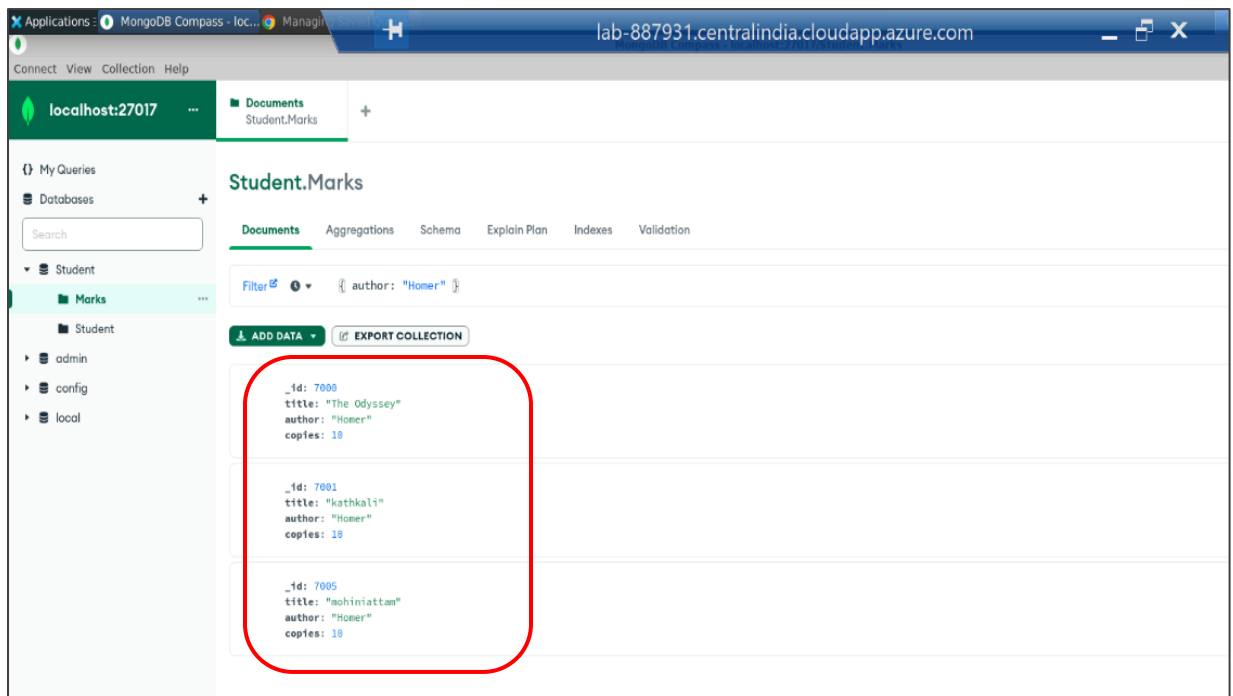
5.1 Click on the **Filter** field and type the NoSQL query for the documents which need to be accessed

```
{"_id":{"$lt:700}}
```



5.2 Click on the **Find** button to run the query and view the results





By following these steps, you have successfully accessed the documents of a collection in MongoDB using NoSQL commands to perform read actions.