

Lesson 03 Demo 05

Performing Various Operations in MongoDB

Objective: To perform operations like inserting, retrieving, updating, and deleting documents in a MongoDB database using Compass

Tools required: MongoDB Compass

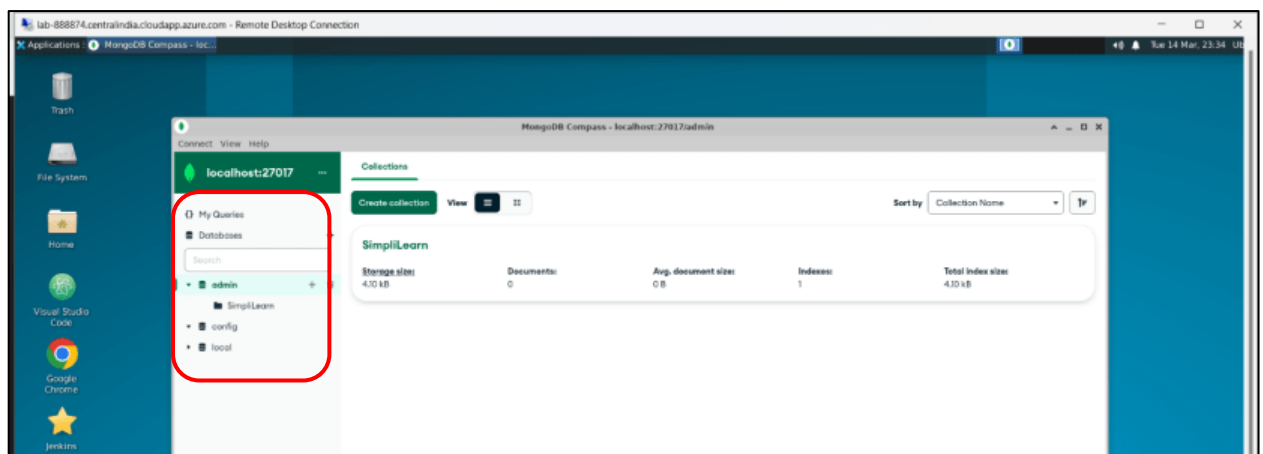
Prerequisites: Knowledge of insert and delete operations

Steps to be followed:

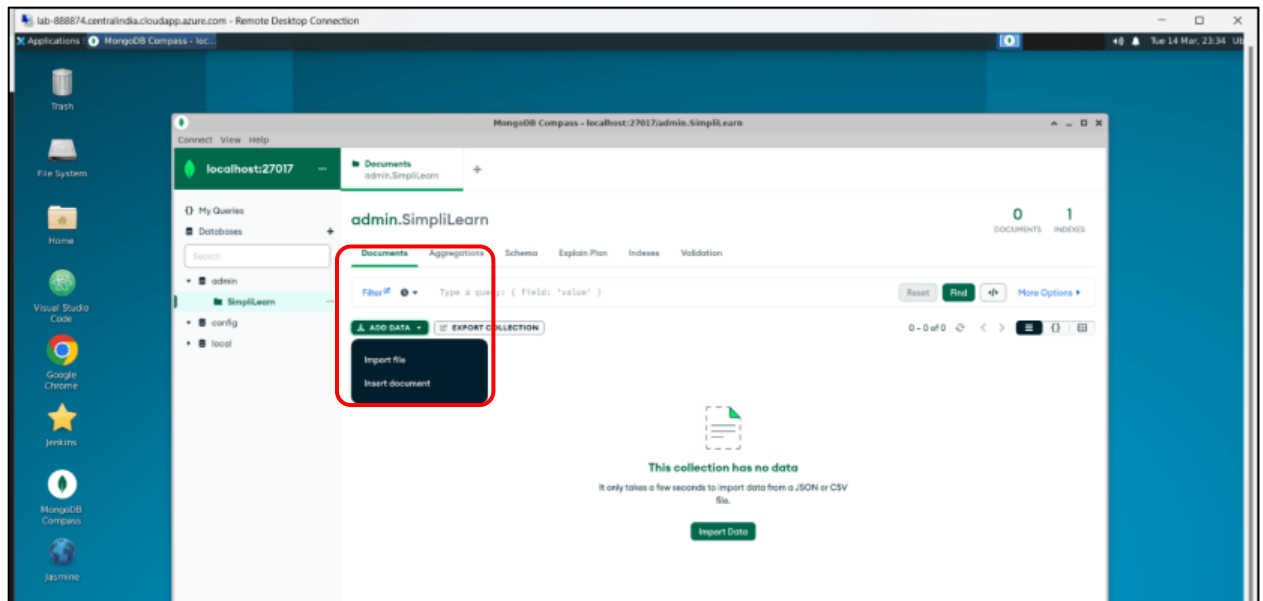
1. Perform bulk insert operation
2. Retrieve the documents from the database
3. Update the documents in the database
4. Replace the documents in the database
5. Remove the documents from the database

Step 1: Perform bulk insert operation

- 1.1 Open MongoDB Compass and select the database and the collection to insert the documents

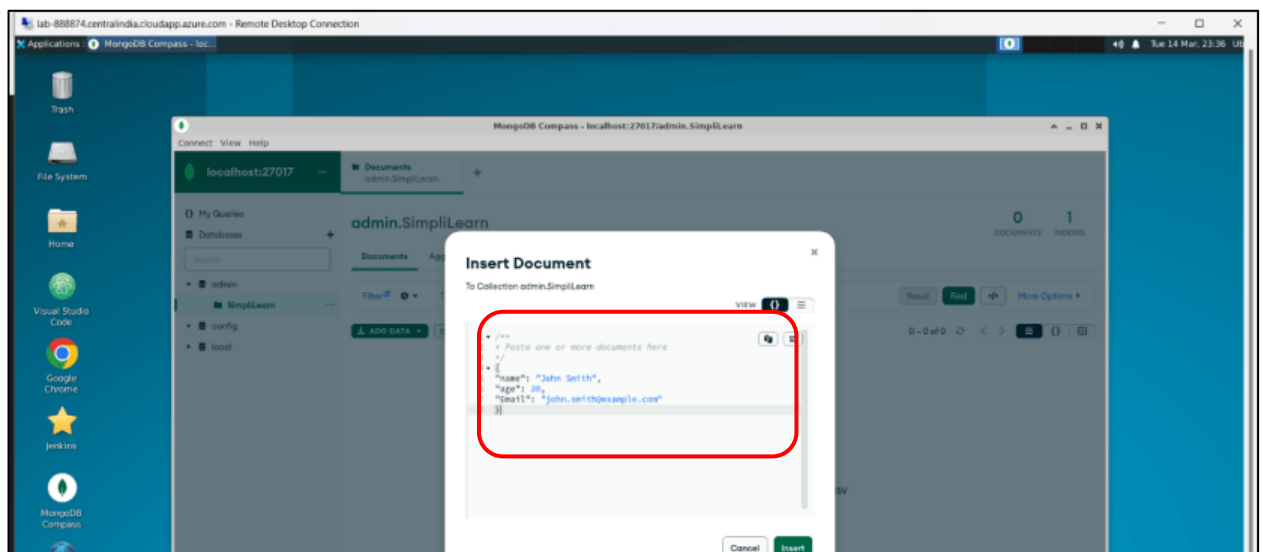


1.2 Click on **ADD DATA**, and then click on the **Insert Document** option

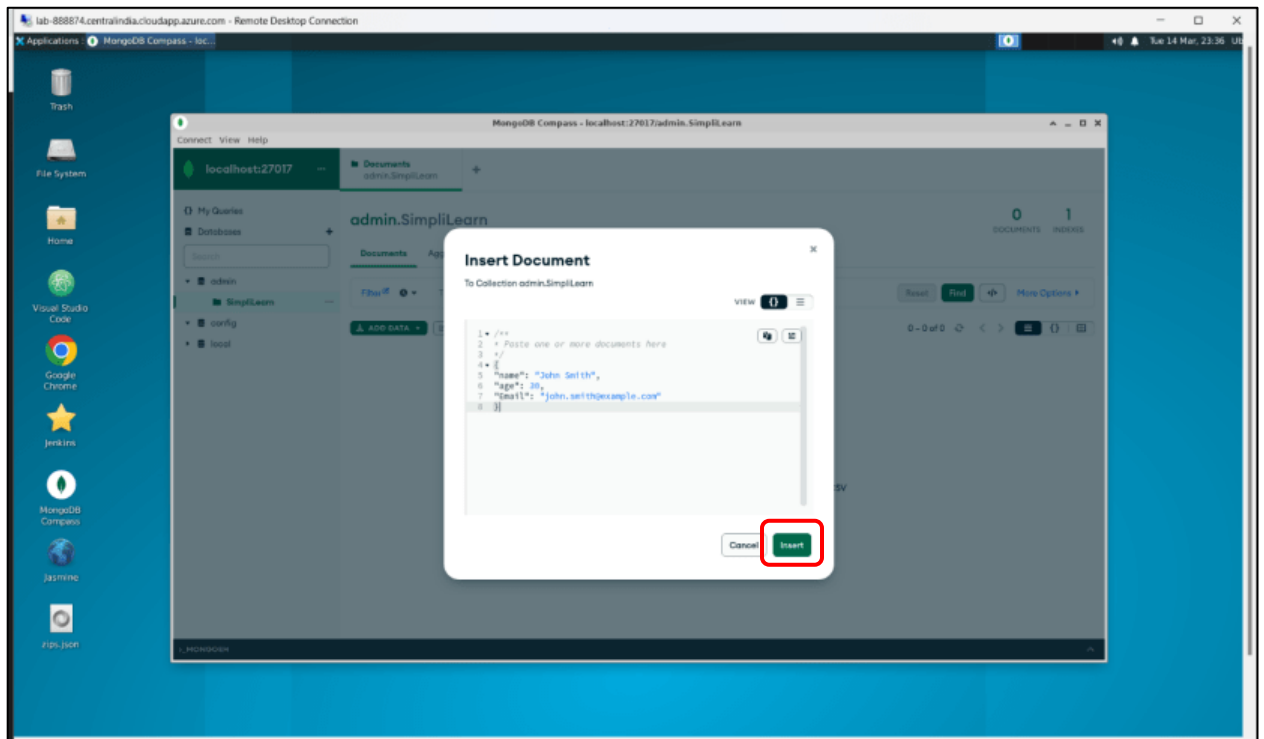


1.3 Enter the following document to insert in the **Insert Document** window:

```
{
  "name": "John Smith,"
  "age": 30,
  "Email": "john.smith@example.com"
}
```

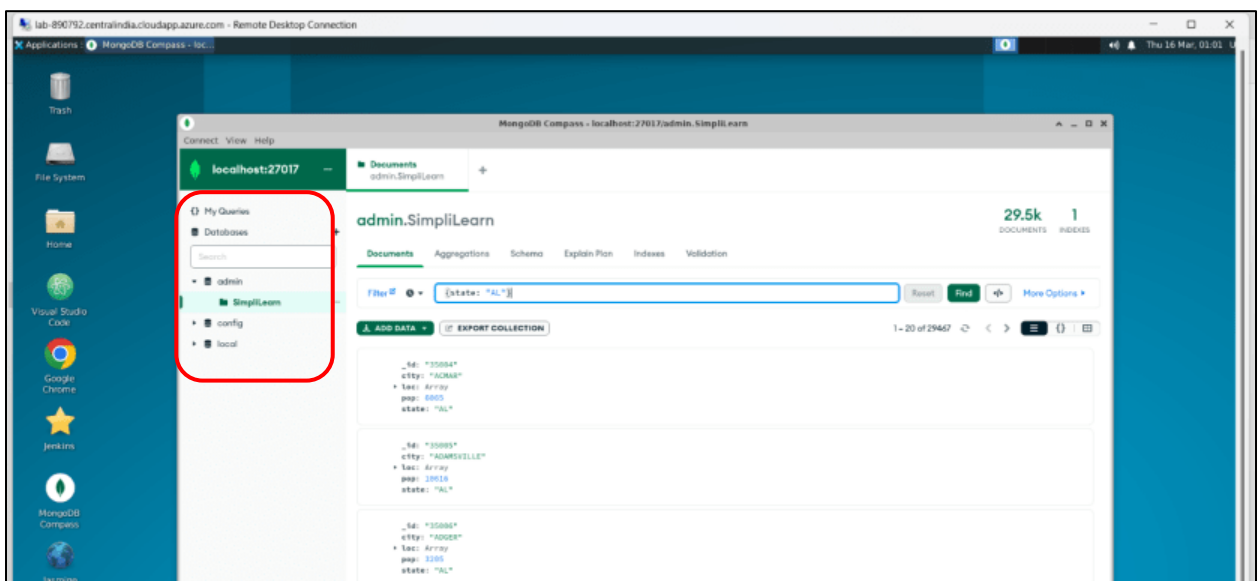


1.4 Click on **Insert** to insert the document into the collection

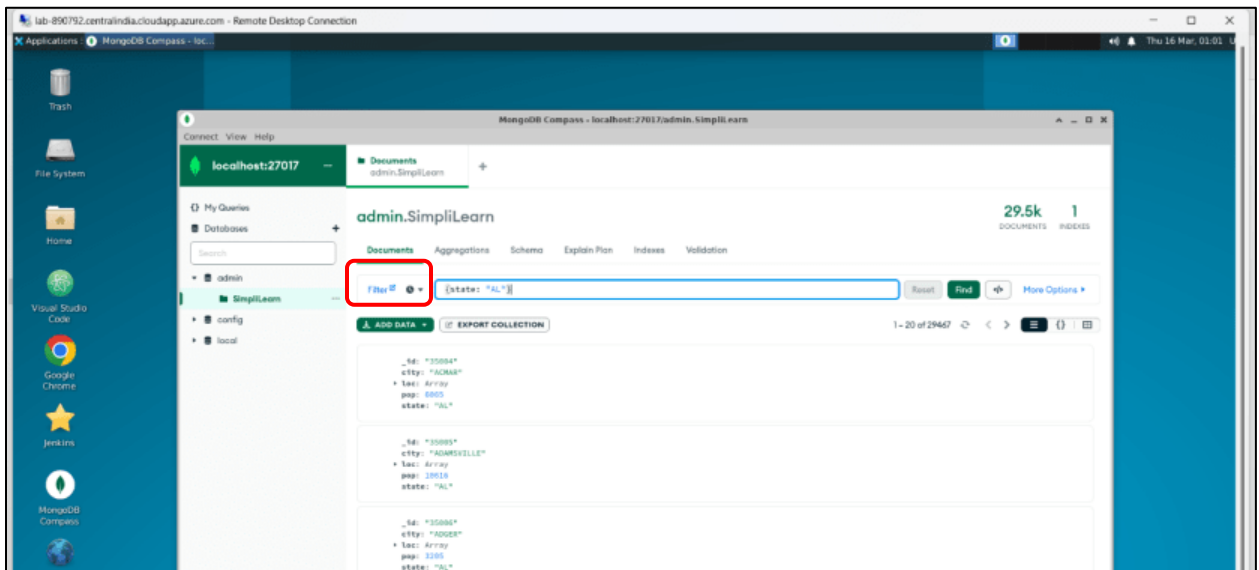


Step 2: Retrieve the documents from the database

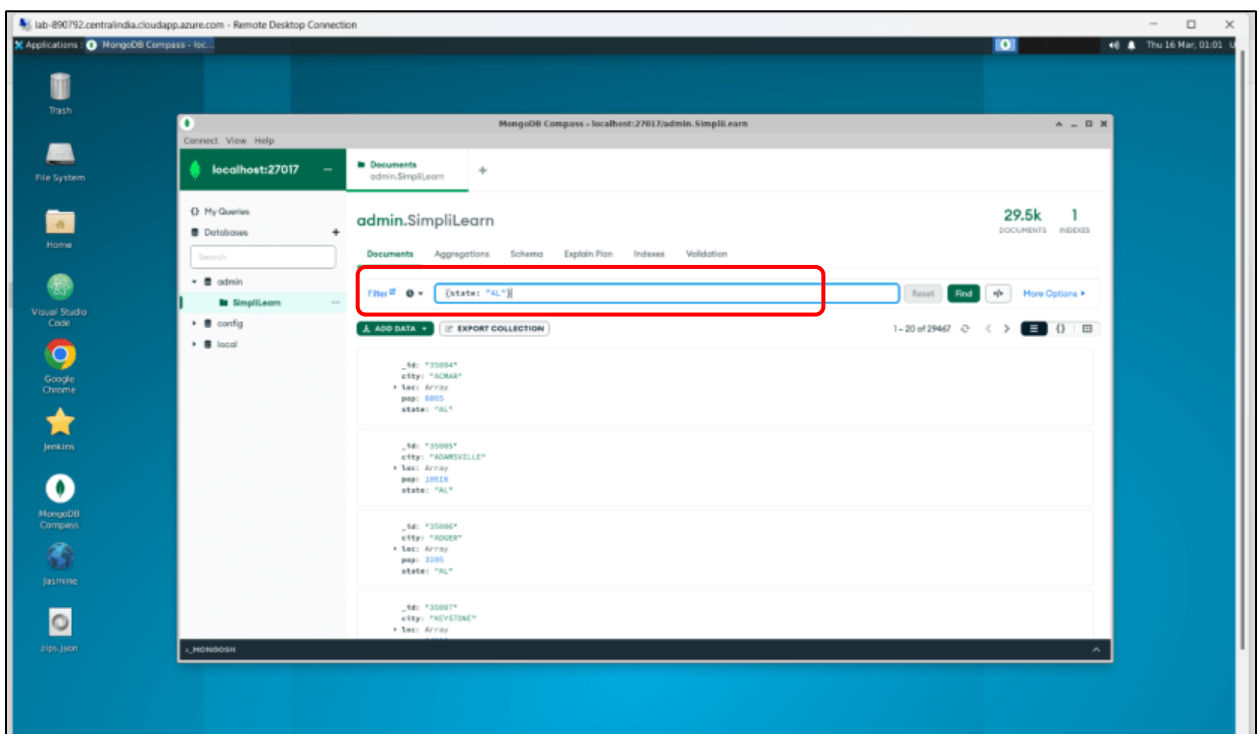
2.1 Select the database and the collection to retrieve the documents



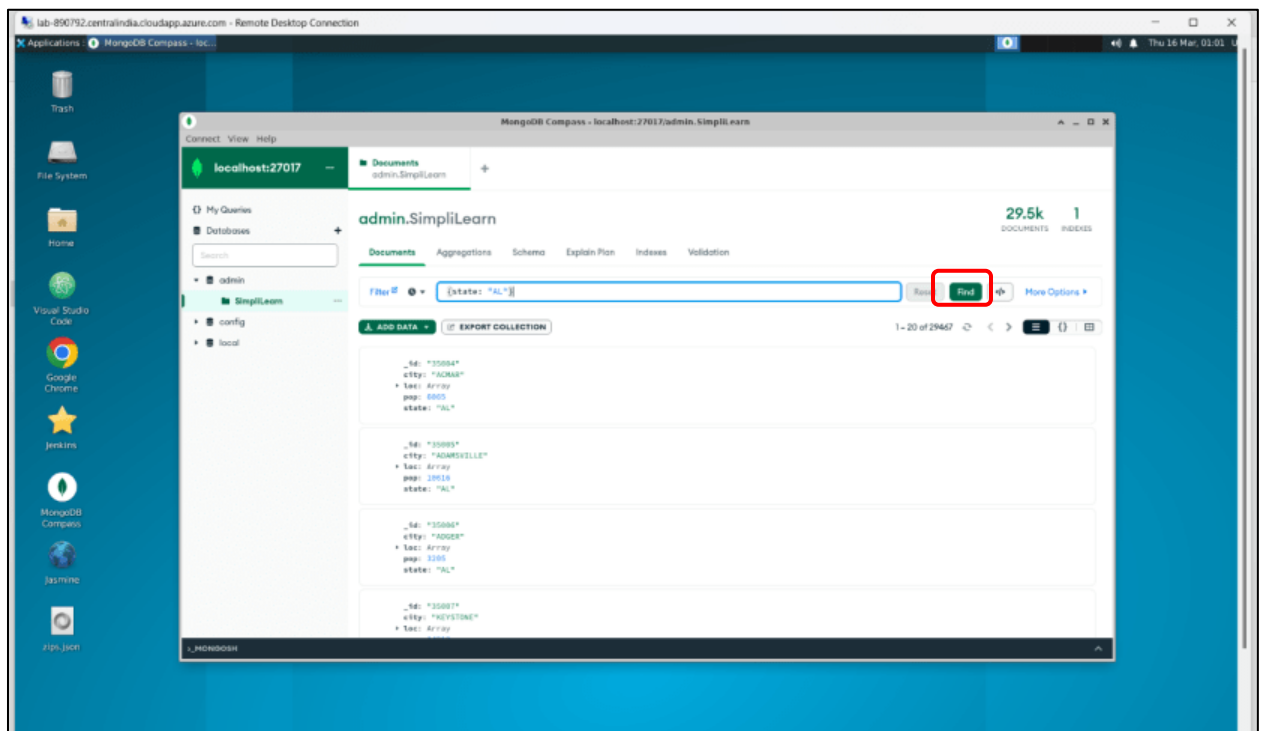
2.2 Click on the **Filter** option



2.3 To retrieve the search criteria for the document, enter the following command in the **Filter** section: {state: "AL"}

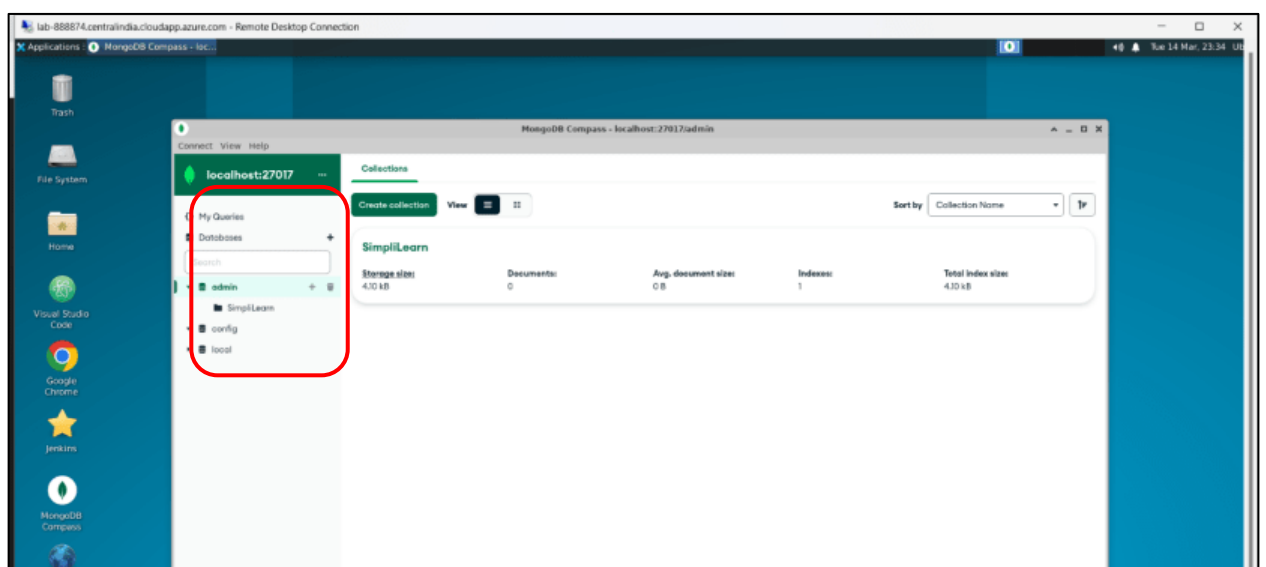


2.4 Now, click on the **Find** button

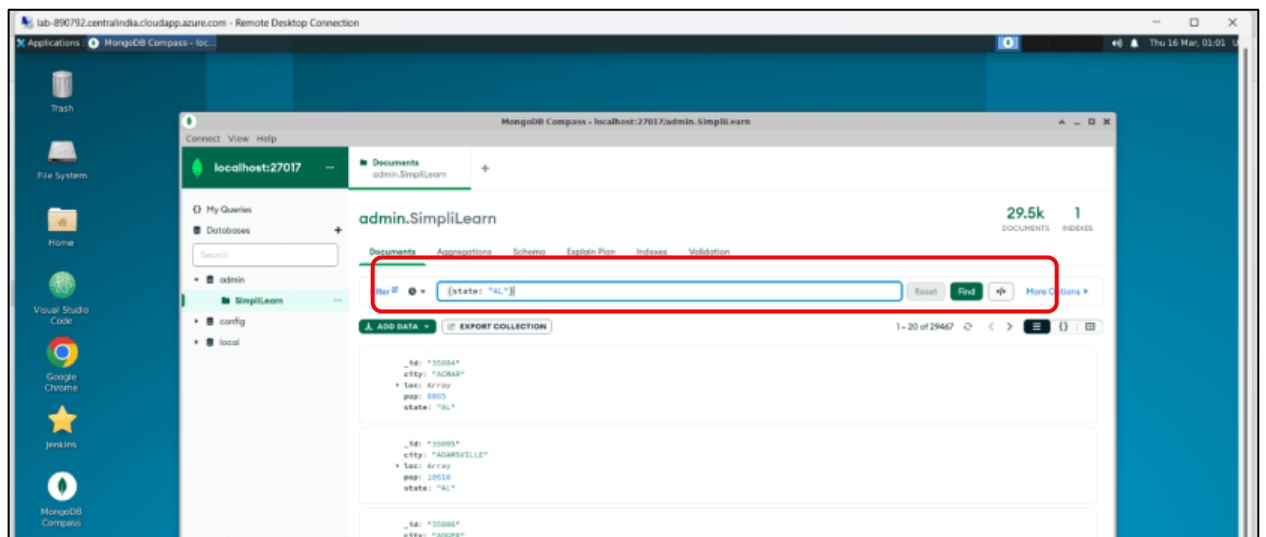


Step 3: Update the documents in the database

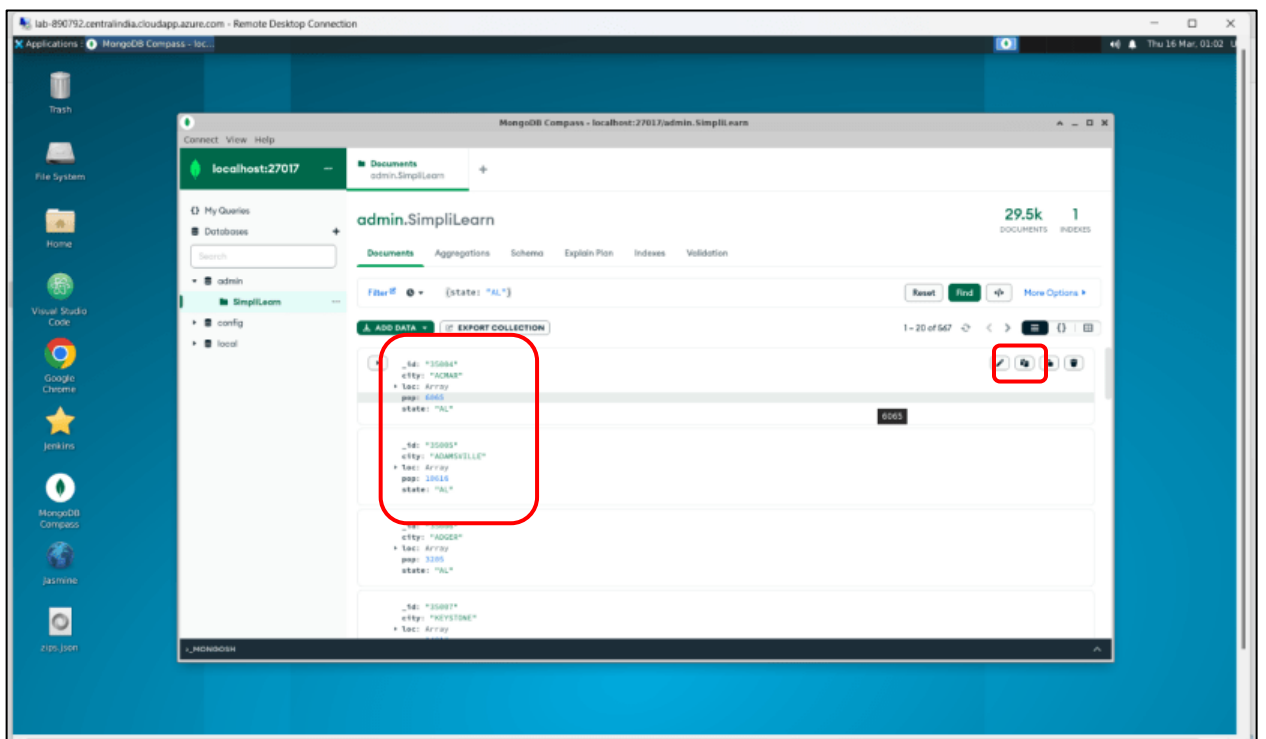
3.1 Select the database and the collection to update the documents



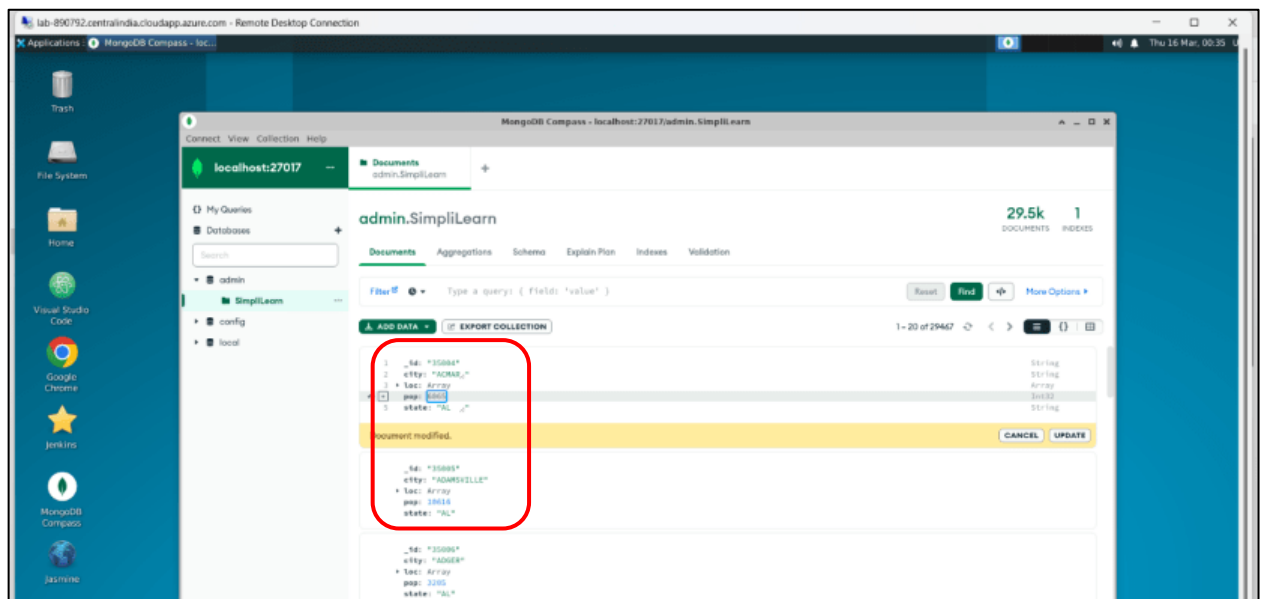
3.2 Click on the **Filter** option and enter the search criteria



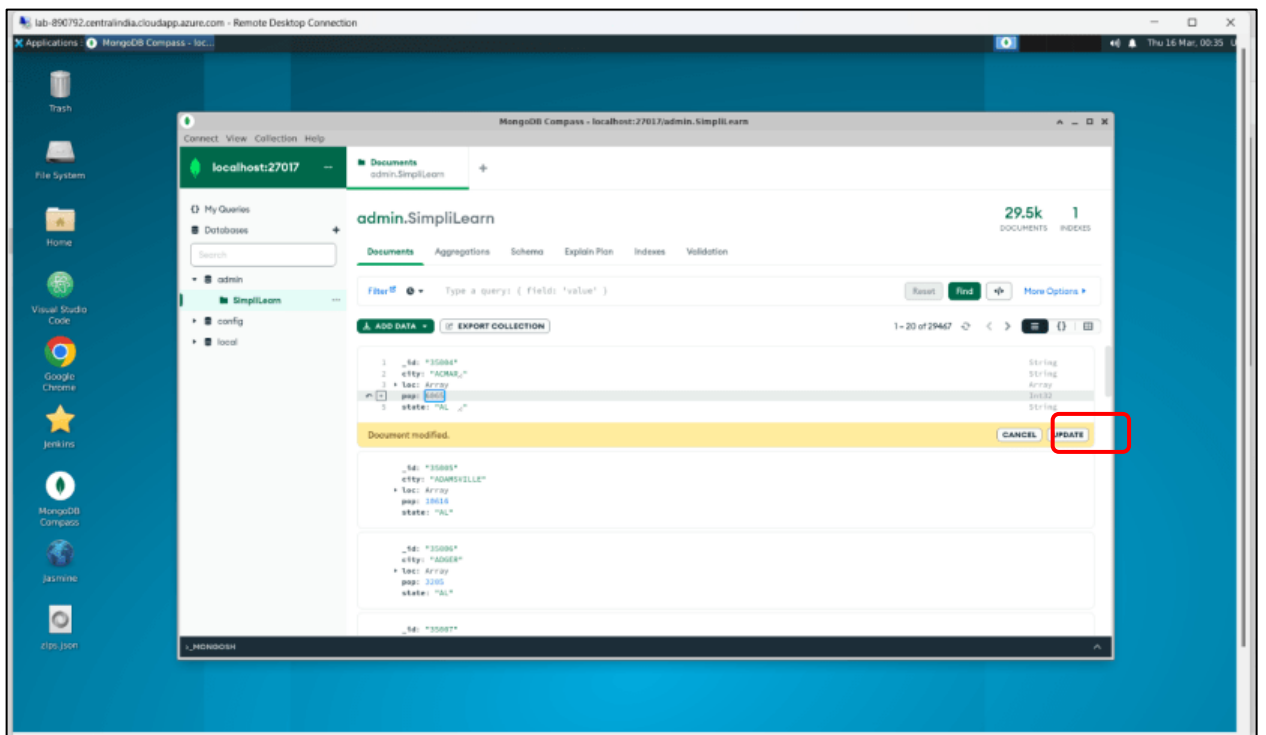
3.3 Now, select the document to modify and click on the **Edit** icon to edit the document



3.4 Update the fields to change

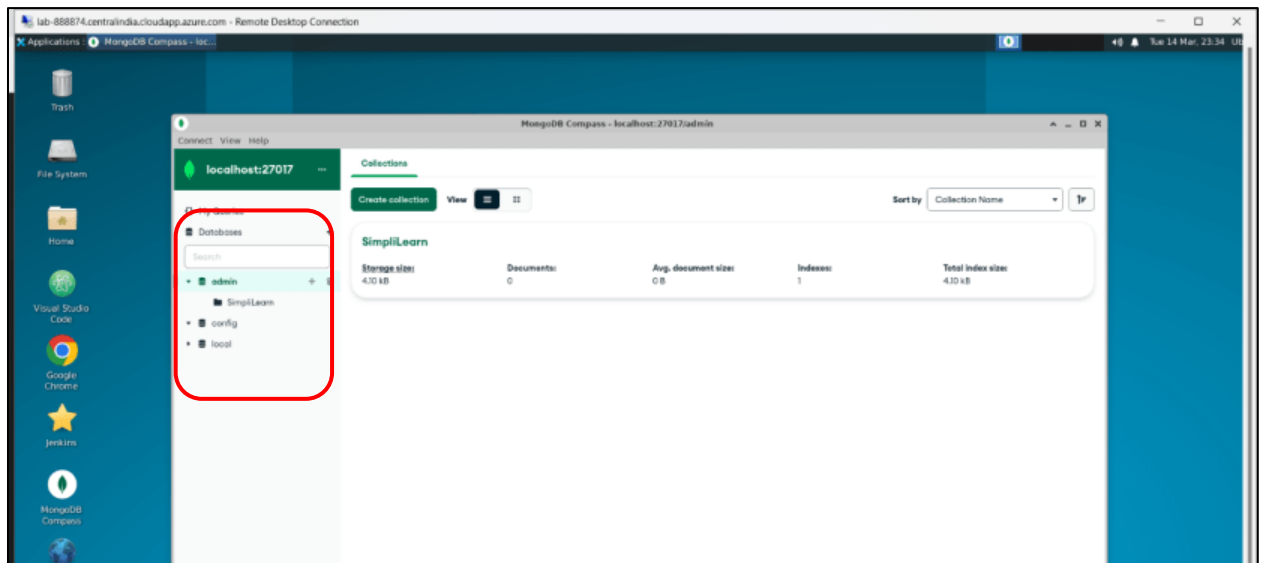


3.5 Click on **Update** to save the changes to the document

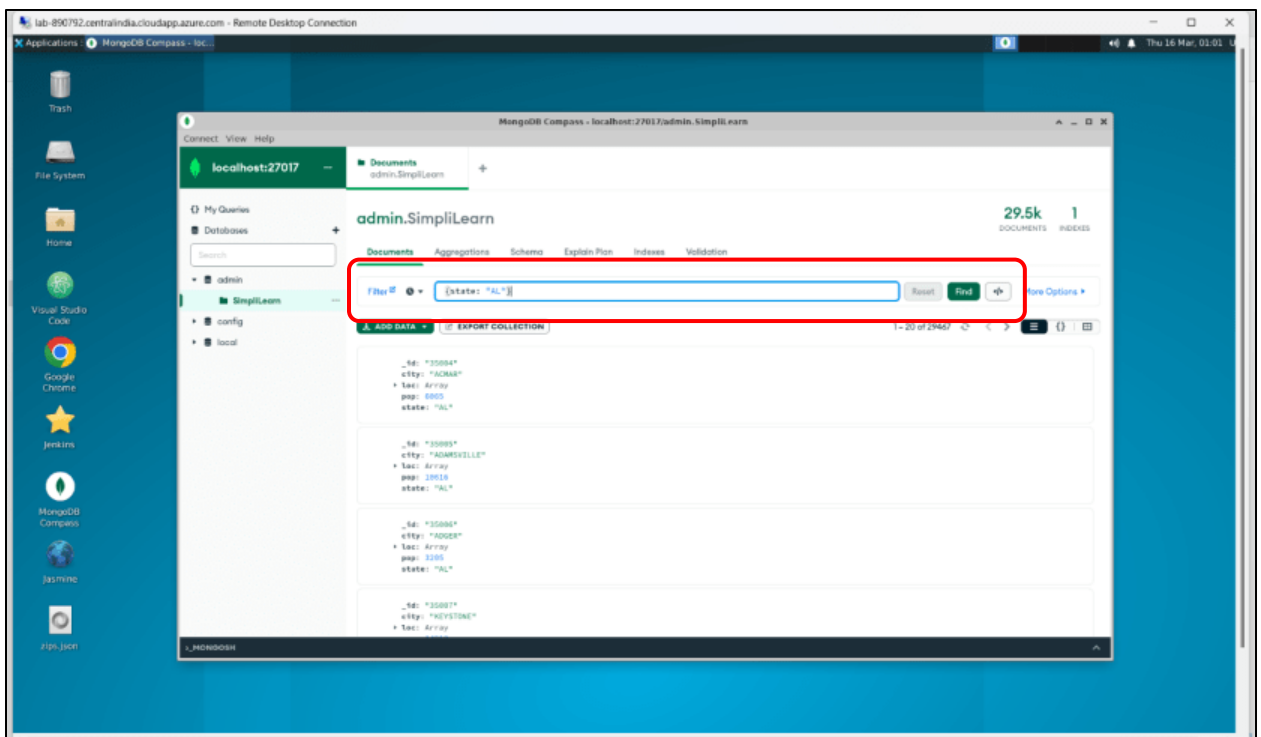


Step 4: Replace the documents in the database

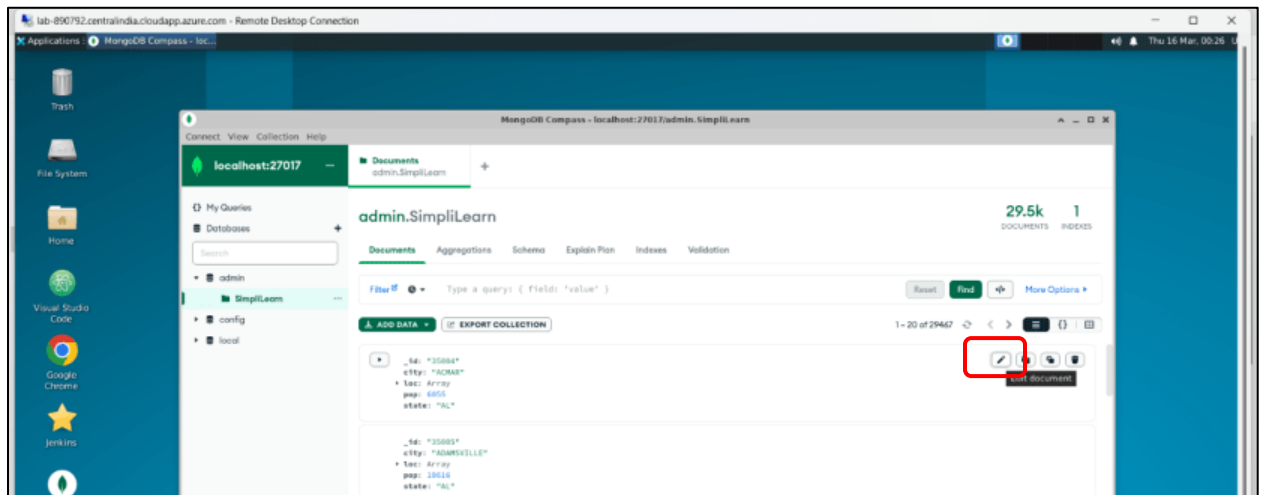
4.1 Select the database and the collection to replace the documents



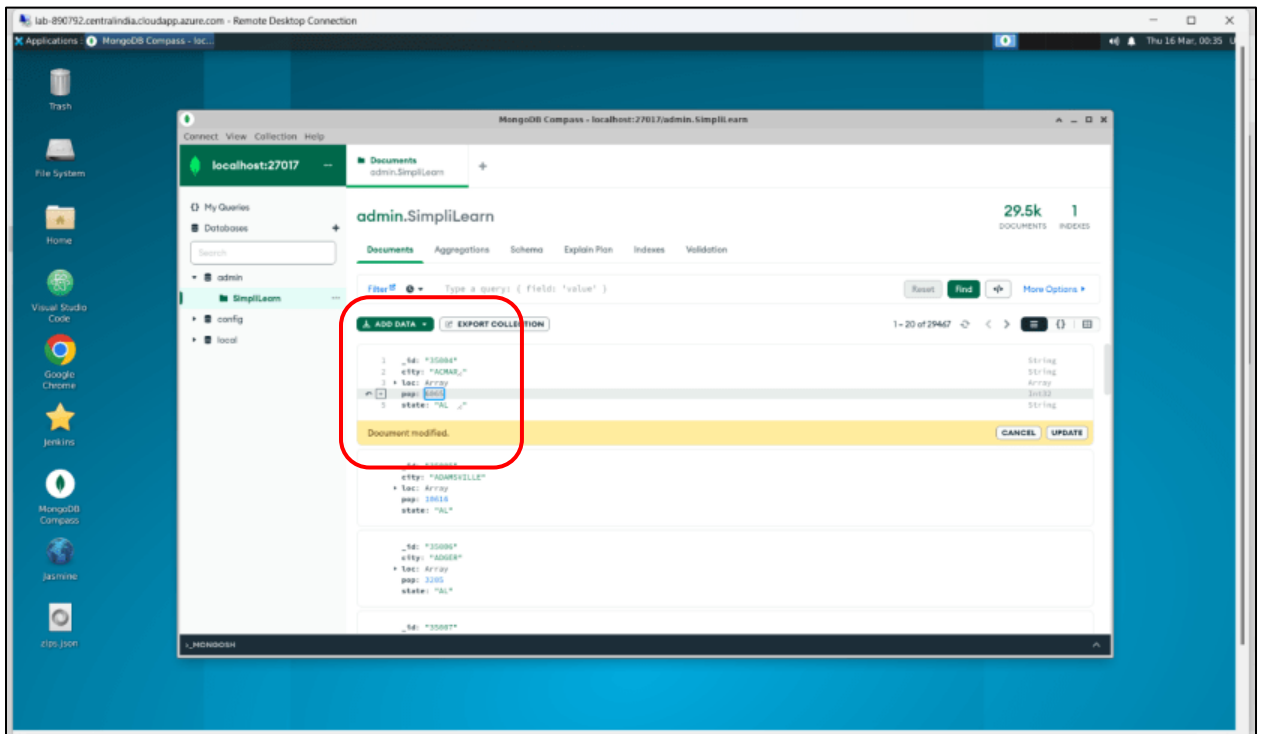
4.2 Click on the **Filter** option and enter the search criteria



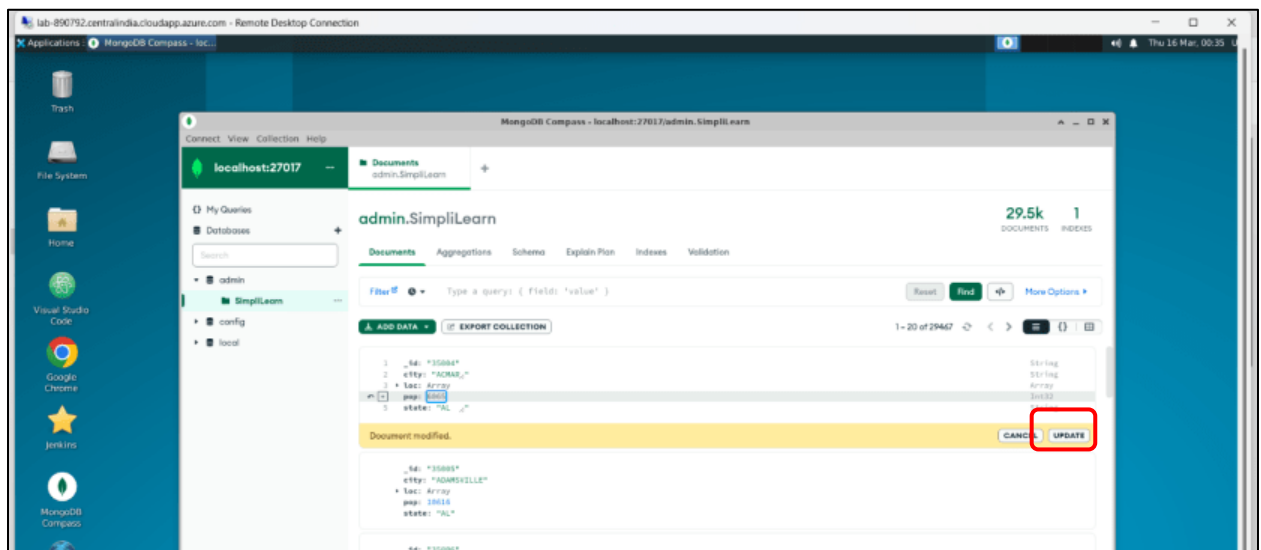
4.3 Click on the **Edit** icon to edit the document



4.4 Replace the entire document

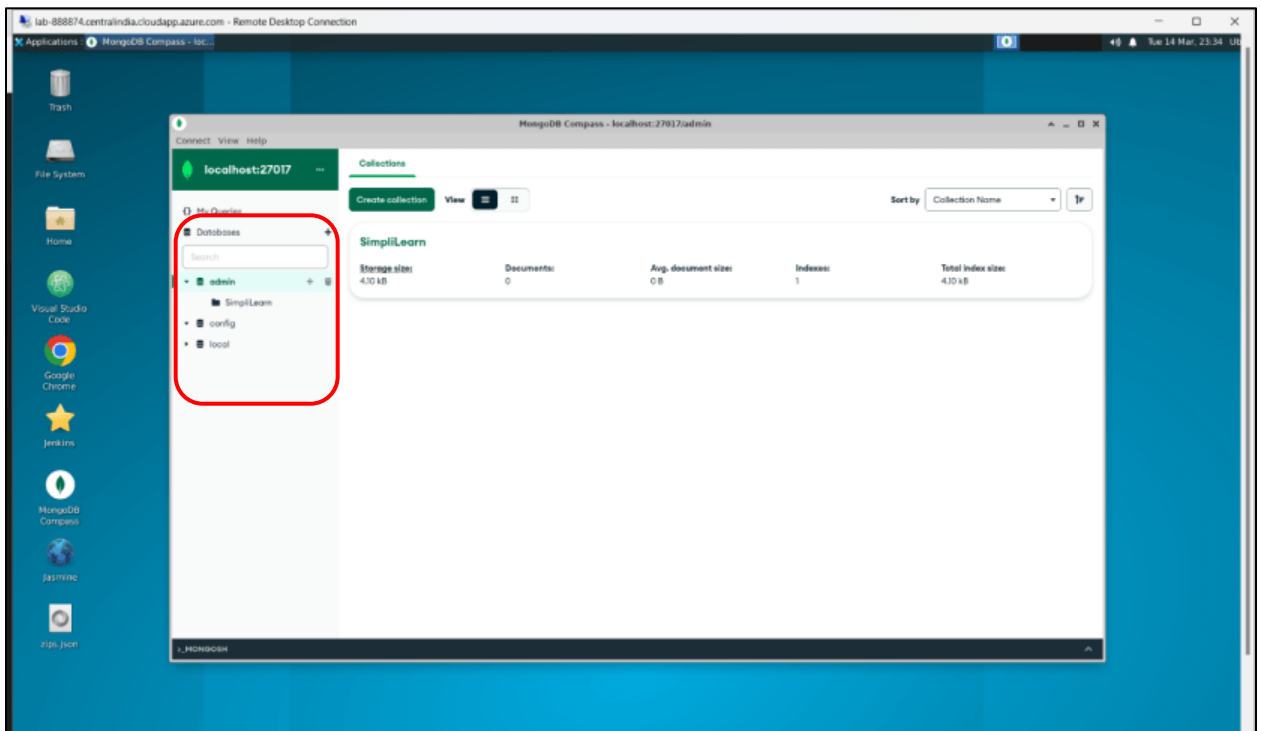


4.5 Click on **Update** to save the changes to the document

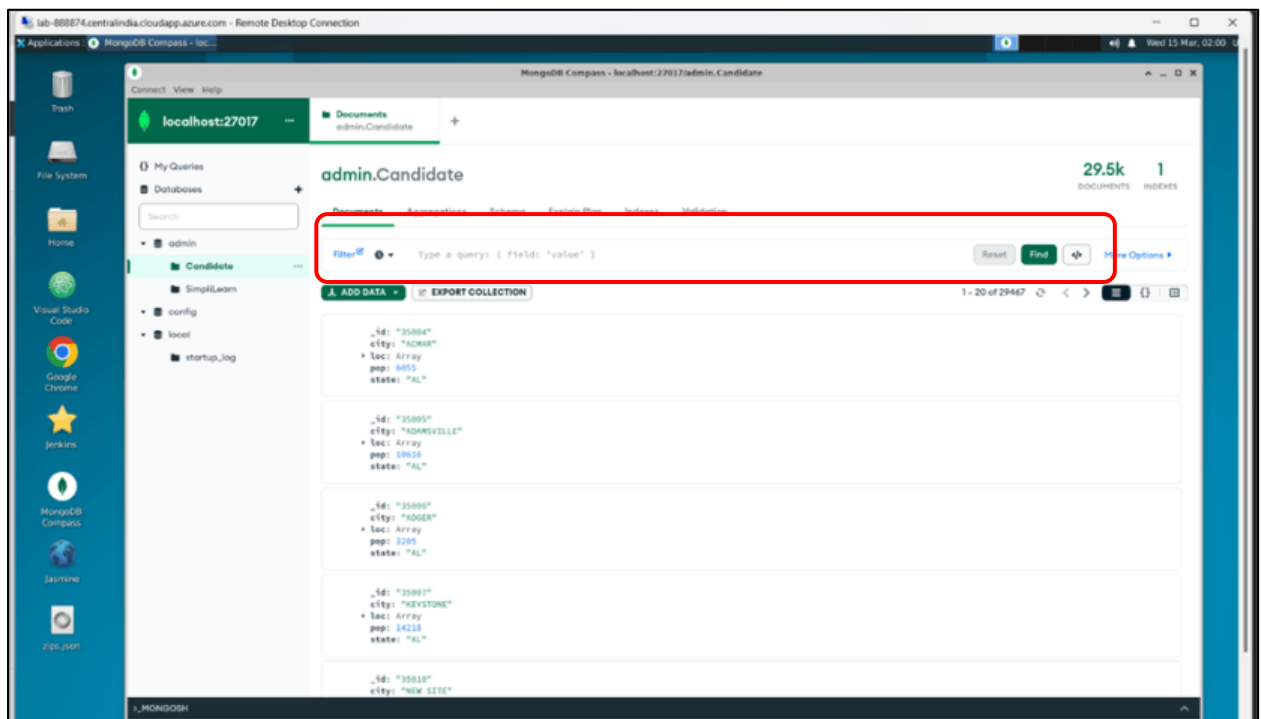


Step 5: Remove the documents from the database

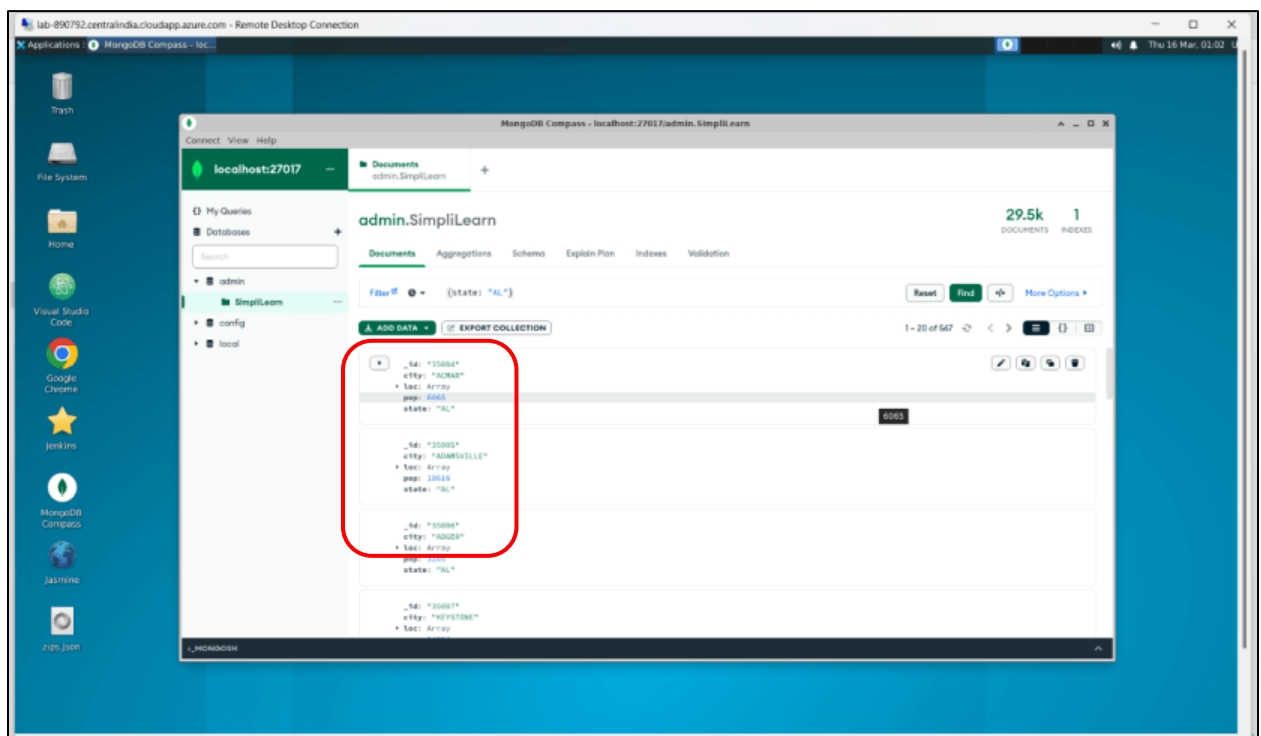
5.1 Select the database and the collection from which to remove documents



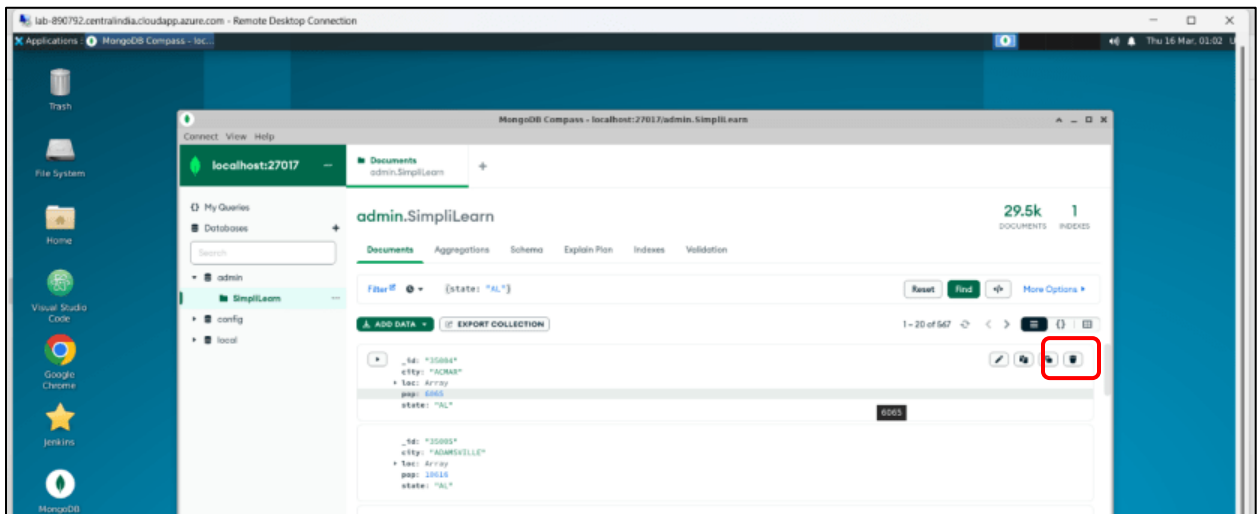
5.2 Click on the **Filter** option and enter the search criteria



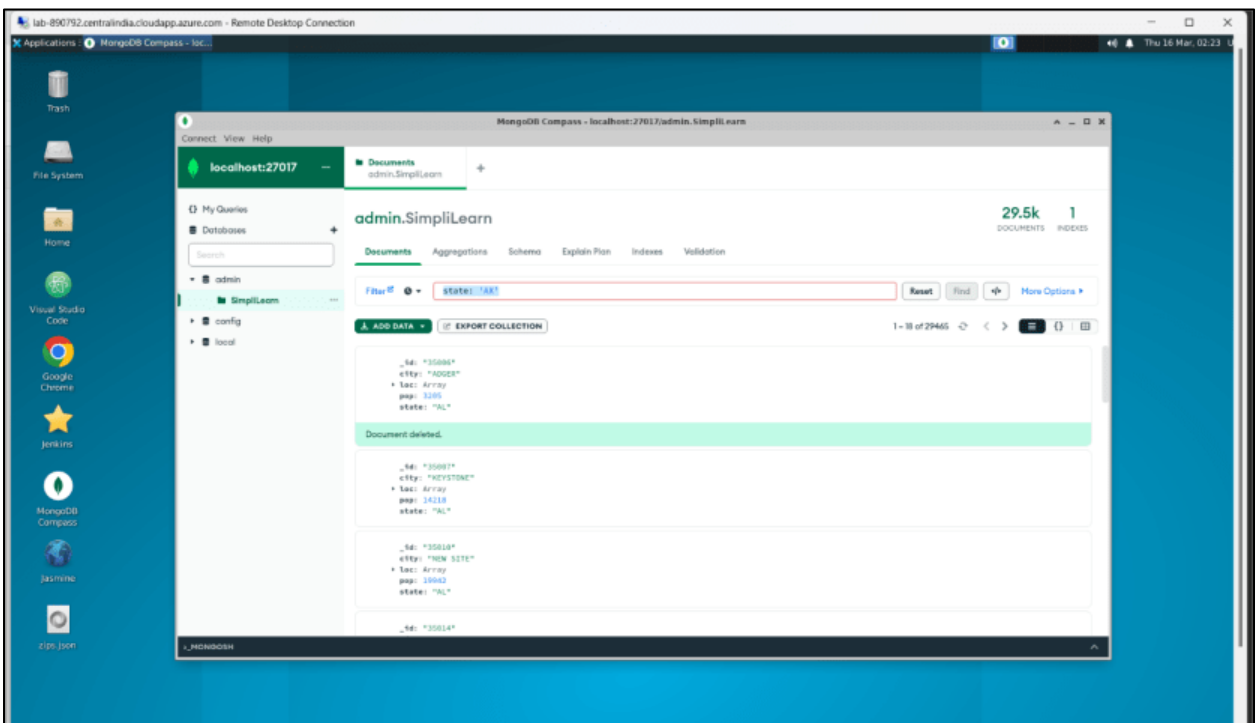
5.3 Select the documents that needs to be removed



5.4 Click the **Delete** icon to remove the selected documents from the collection



If the deletion is successful, you will see a message confirming the number of documents that have been deleted



By following these steps, you have successfully performed operations like inserting, retrieving, updating, and deleting documents in a MongoDB database using Compass.