Lesson 01 Demo 02

Exploring MongoDB Atlas Database Collection and Documents

Objective: To explore the MongoDB Atlas database collection and documents by creating a database user and connecting to the database

Tools required: NA

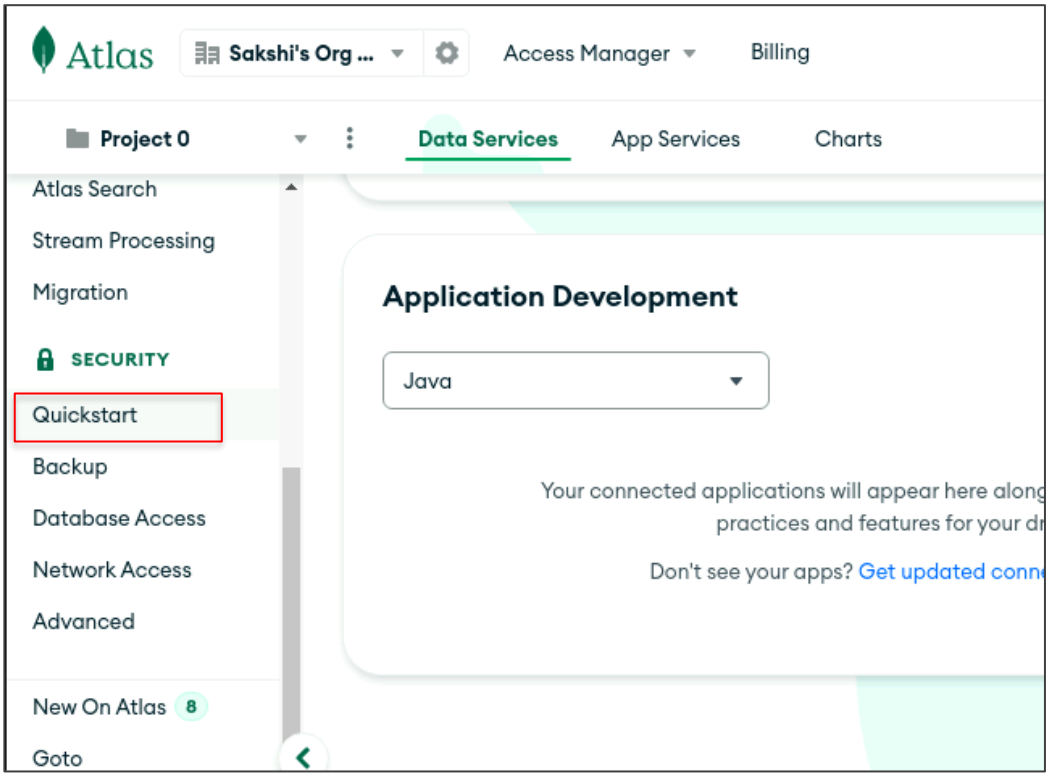
Prerequisites: None

Steps to be followed:

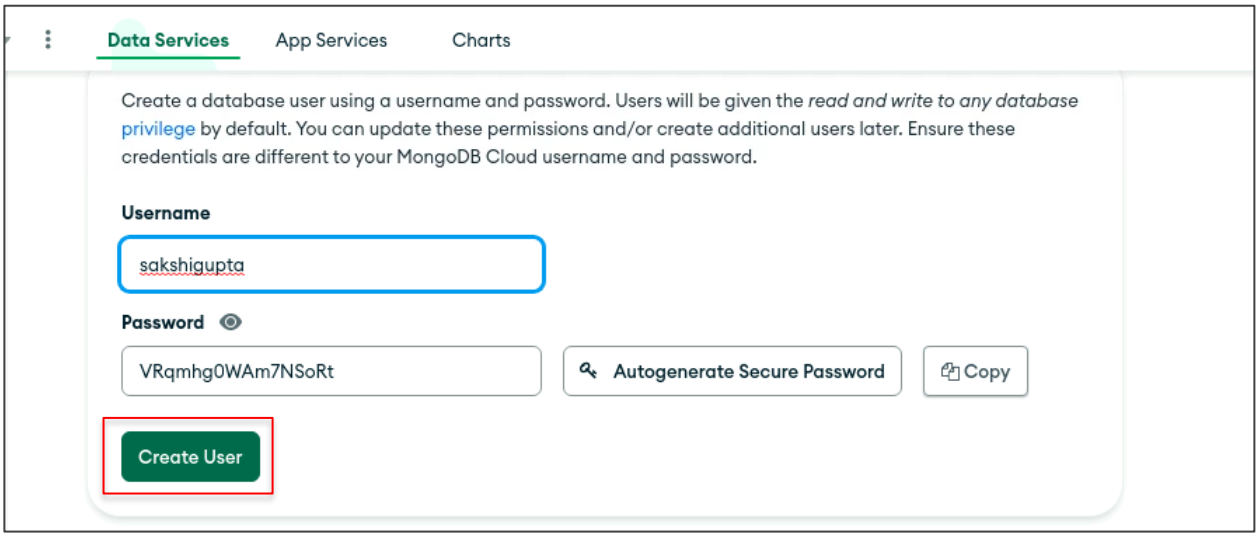
1. Create a database user
2. Connect to the database
3. Load the sample dataset
4. Insert a document
5. Edit the document

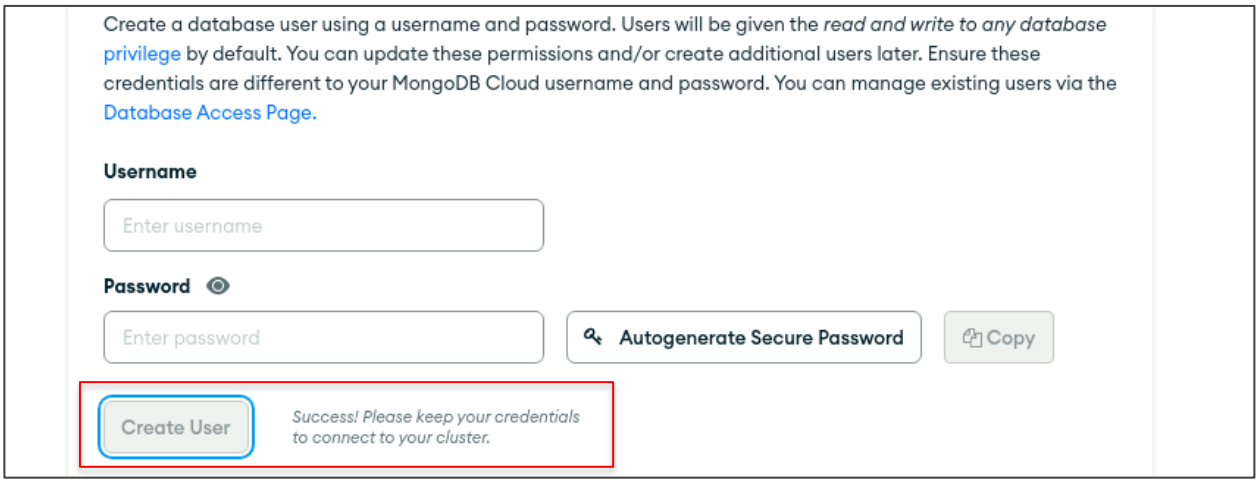
Step 1: Create a database user

1.1 Click on **Quickstart** under the **Security** section

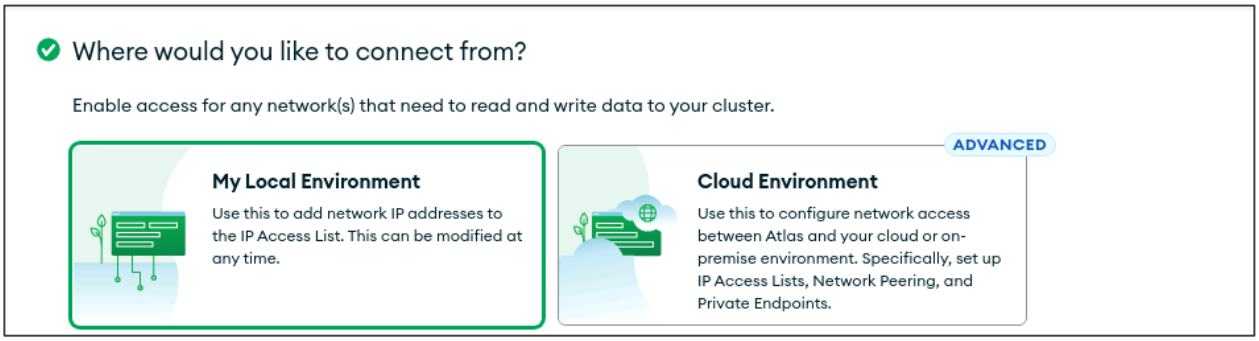


1.2 Create a database user by providing a **username** and **password**, then click on **Create User**

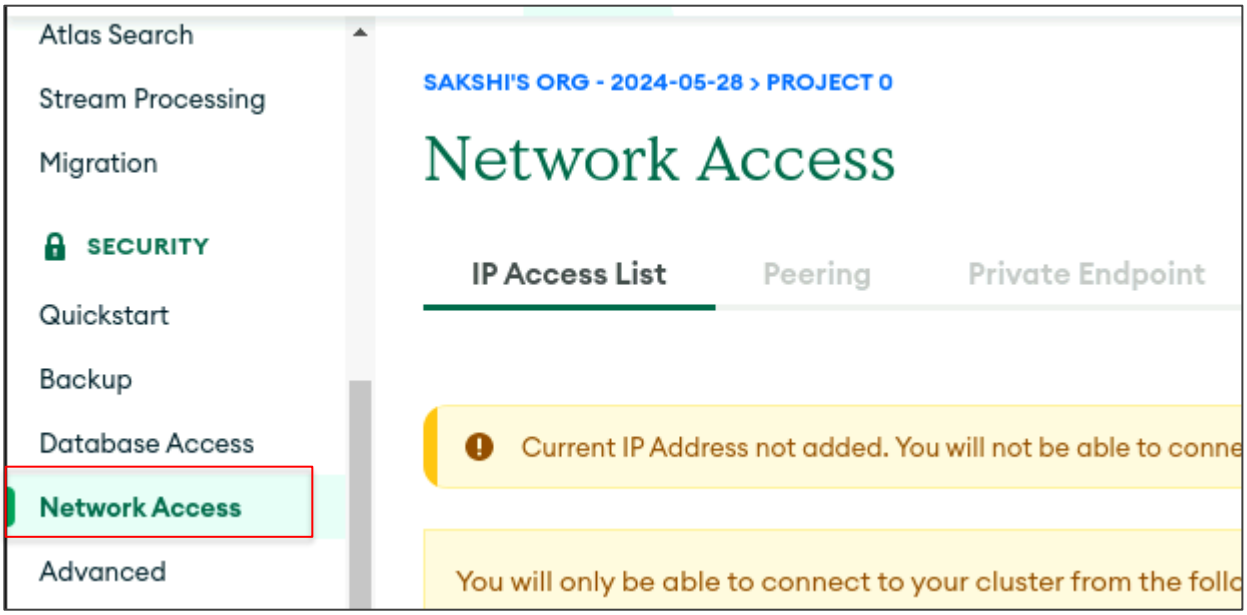


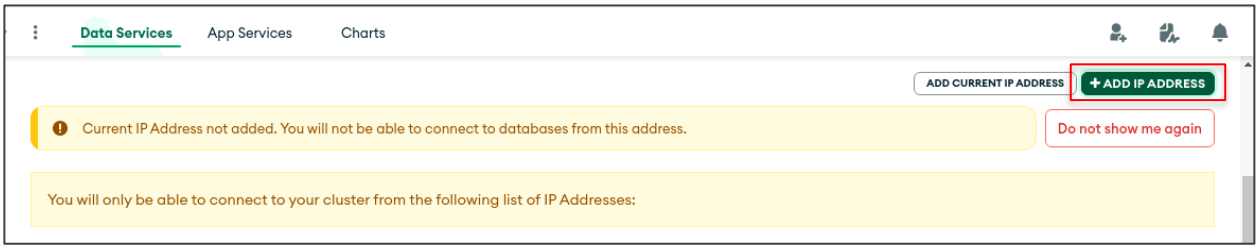


1.3 To connect the database to a cluster, scroll down and select **My Local Environment**

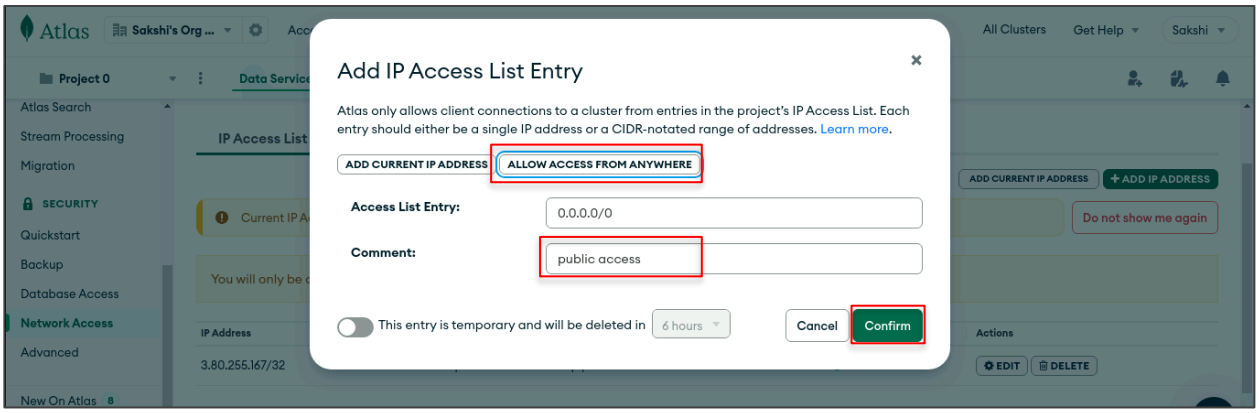


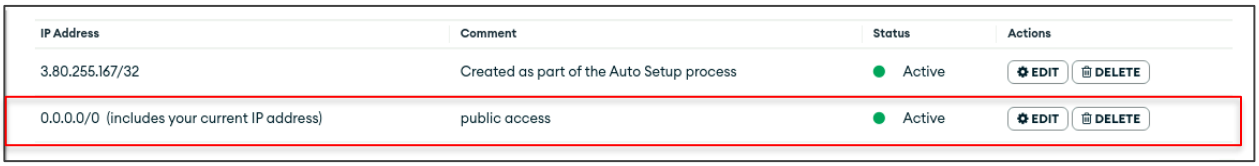
1.4 Navigate to **Network Access** from the **Security** section on the left and click on **ADD IP ADDRESS**





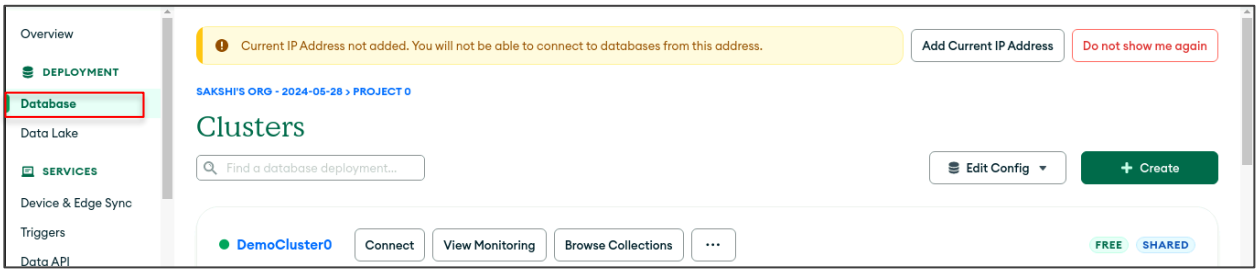
1.5 Select **ALLOW ACCESS FROM ANYWHERE**, add a comment as **public access**, and click on **Confirm**



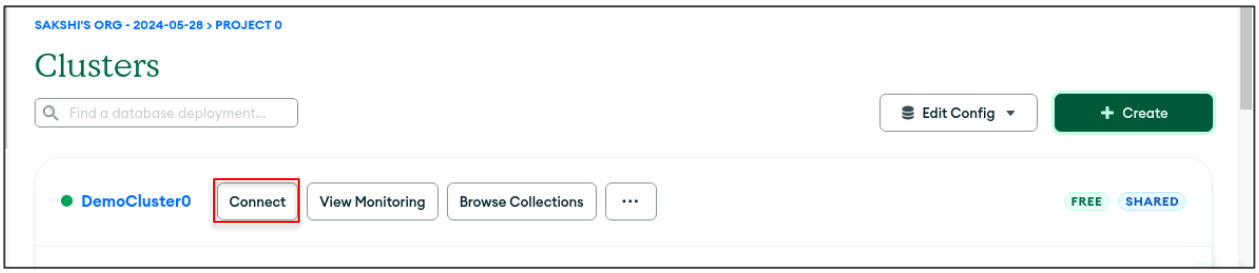


Step 2: Connect to the database

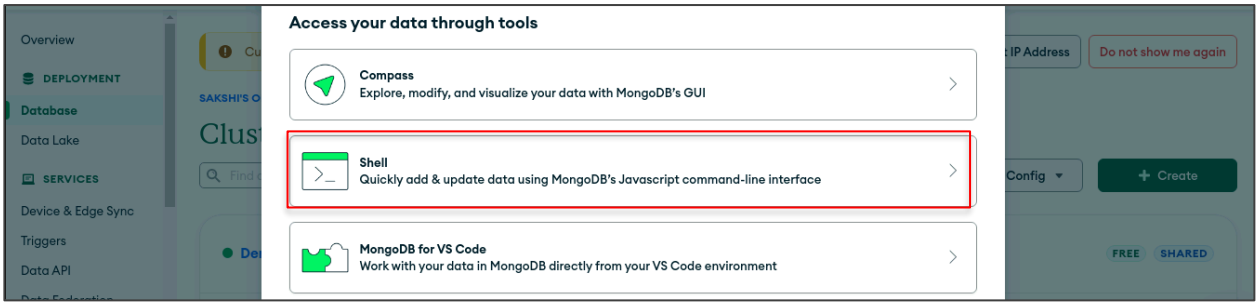
2.1 Navigate to **Database** under the **Deployment** section



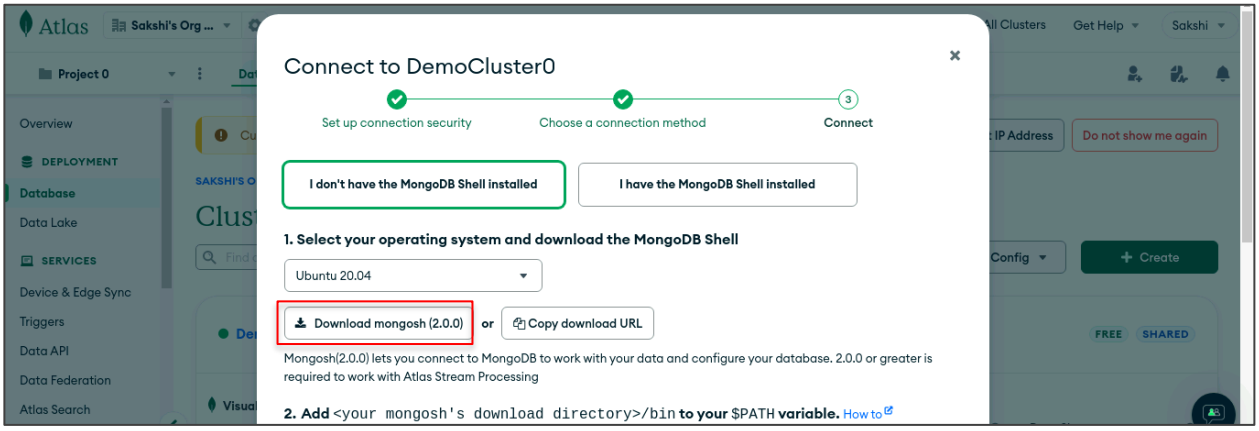
2.2 Click on **Connect**

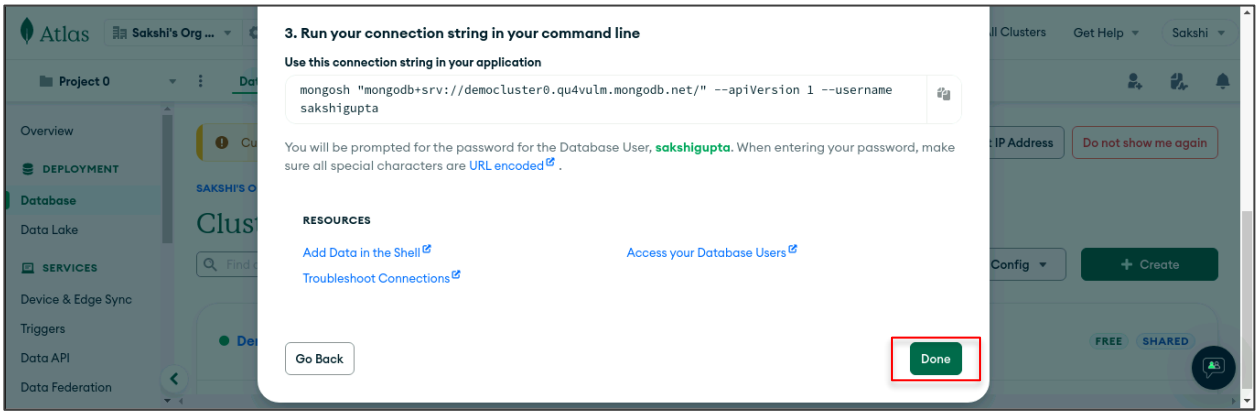


2.3 Choose the **Shell** option to connect with MongoDB Shell

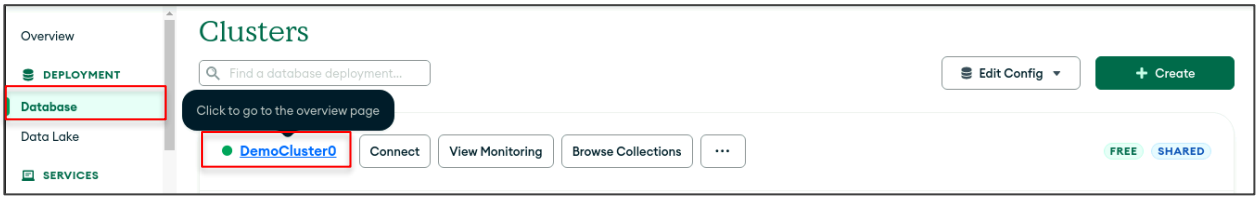


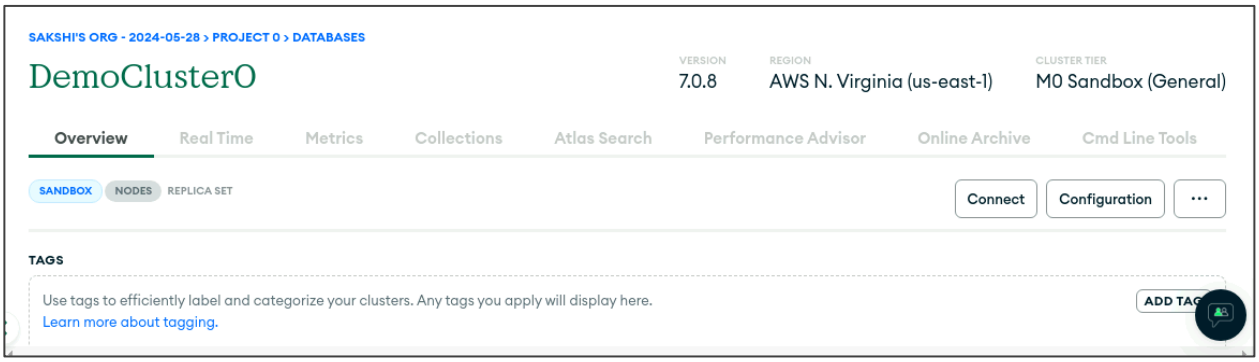
2.4 Select **Download mongosh** to download the MongoDB shell, and then click on **Done**



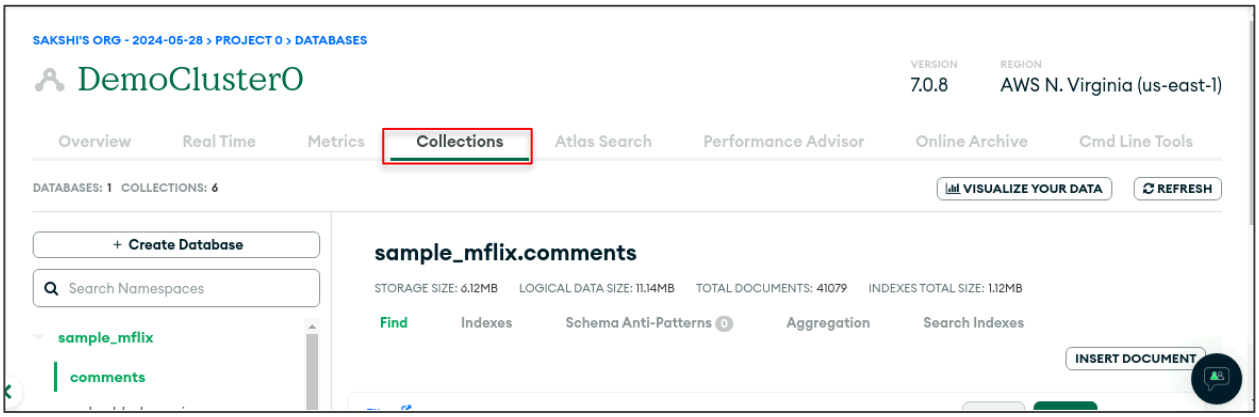


2.5 Go to **Database** within **Deployment** section, and click on **DemoCluster0**



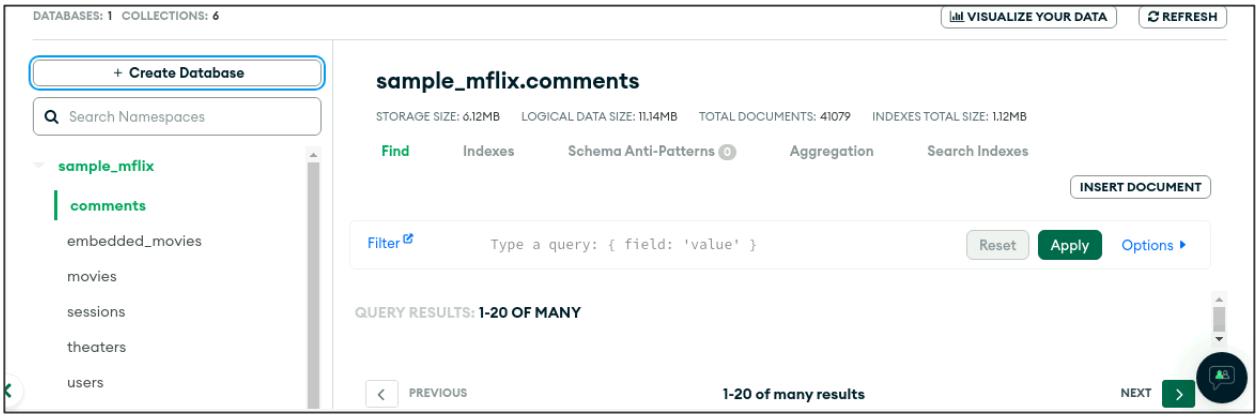


The cluster interface will appear as shown above. The documents are saved in the **Collections** tab.



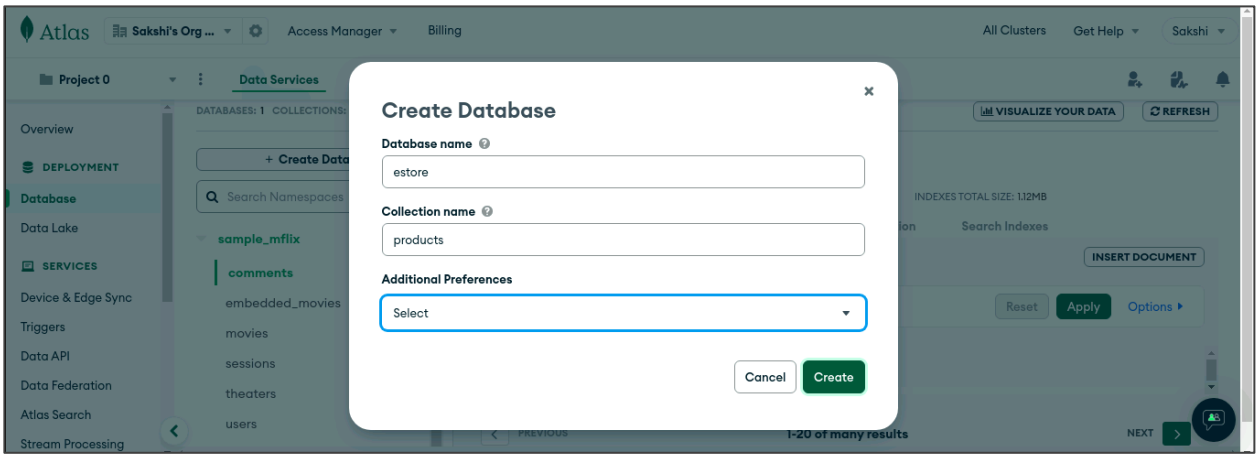
Step 3: Load the sample dataset

3.1 Scroll down to see a sample dataset generated by MongoDB

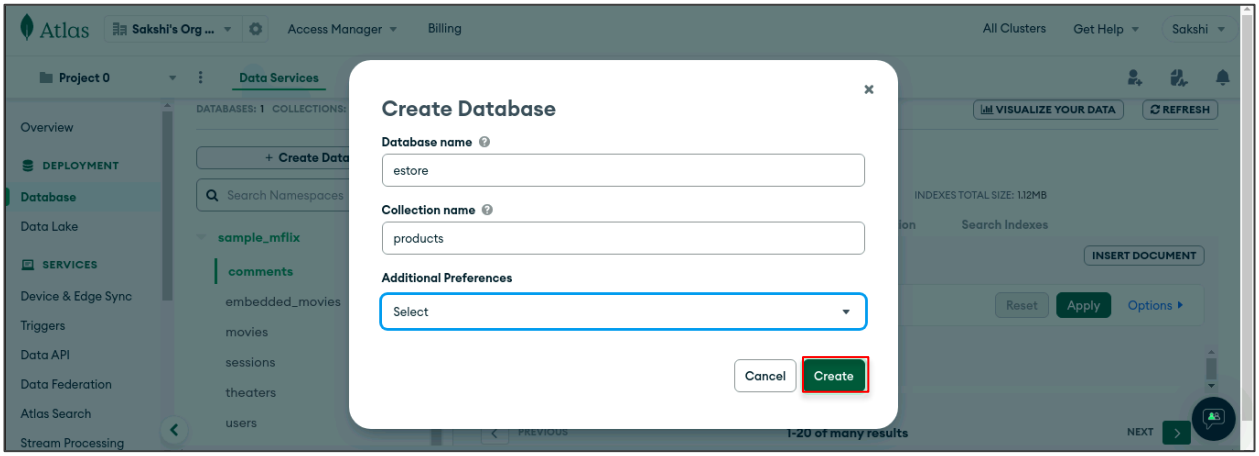


3.2 Click on **Create Database**:

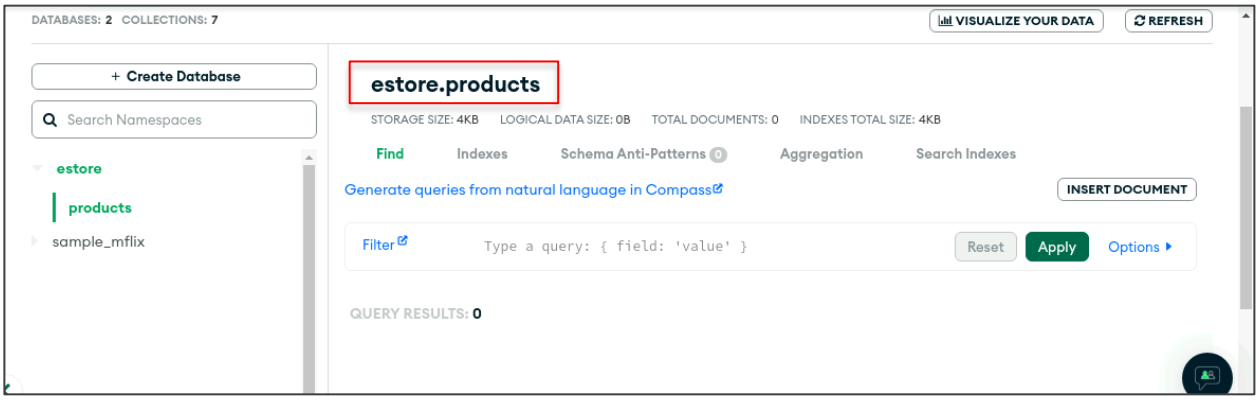
3.3 Add a **Database name** and **Collection name**



3.4 Click on **Create**

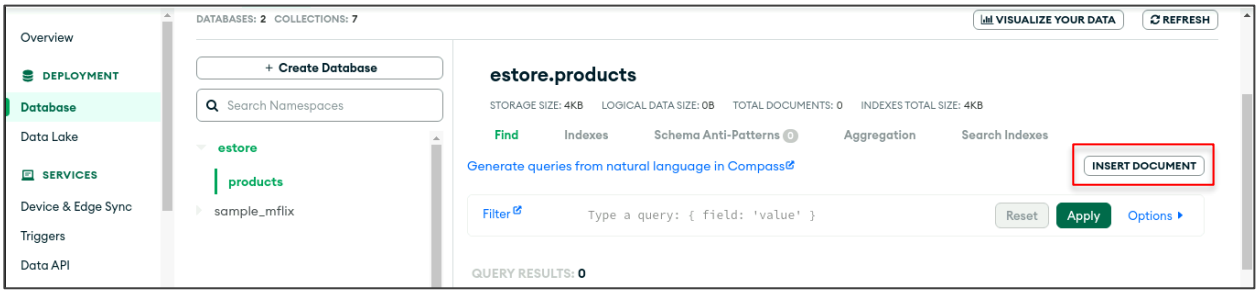


Sample data is now loaded.

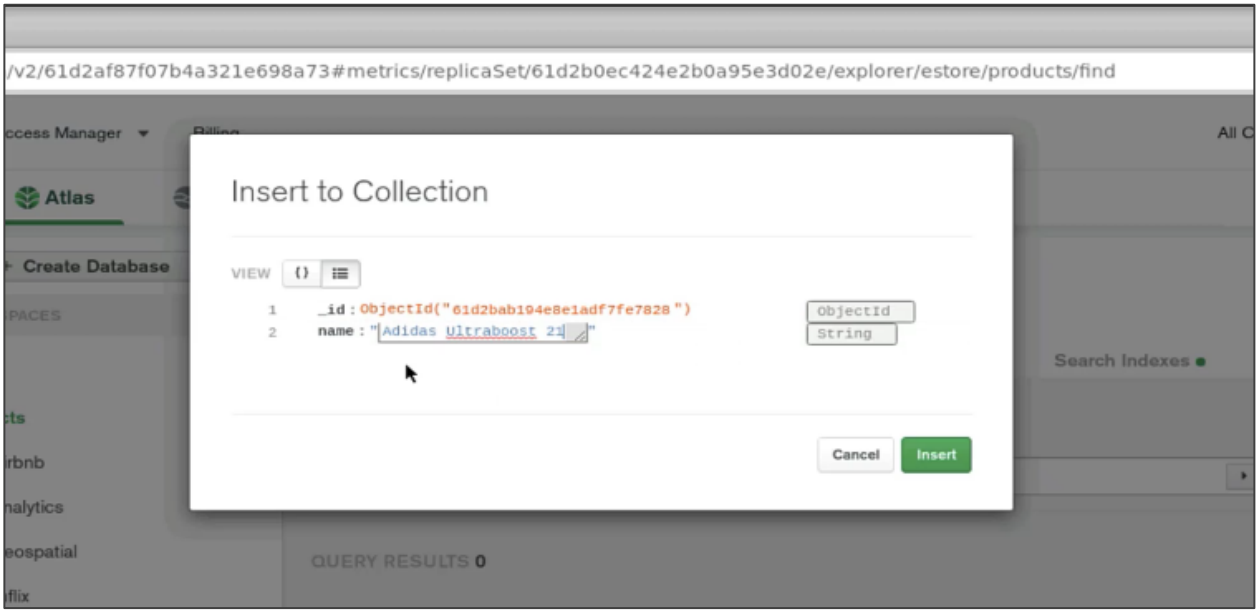


Step 4: Insert a document

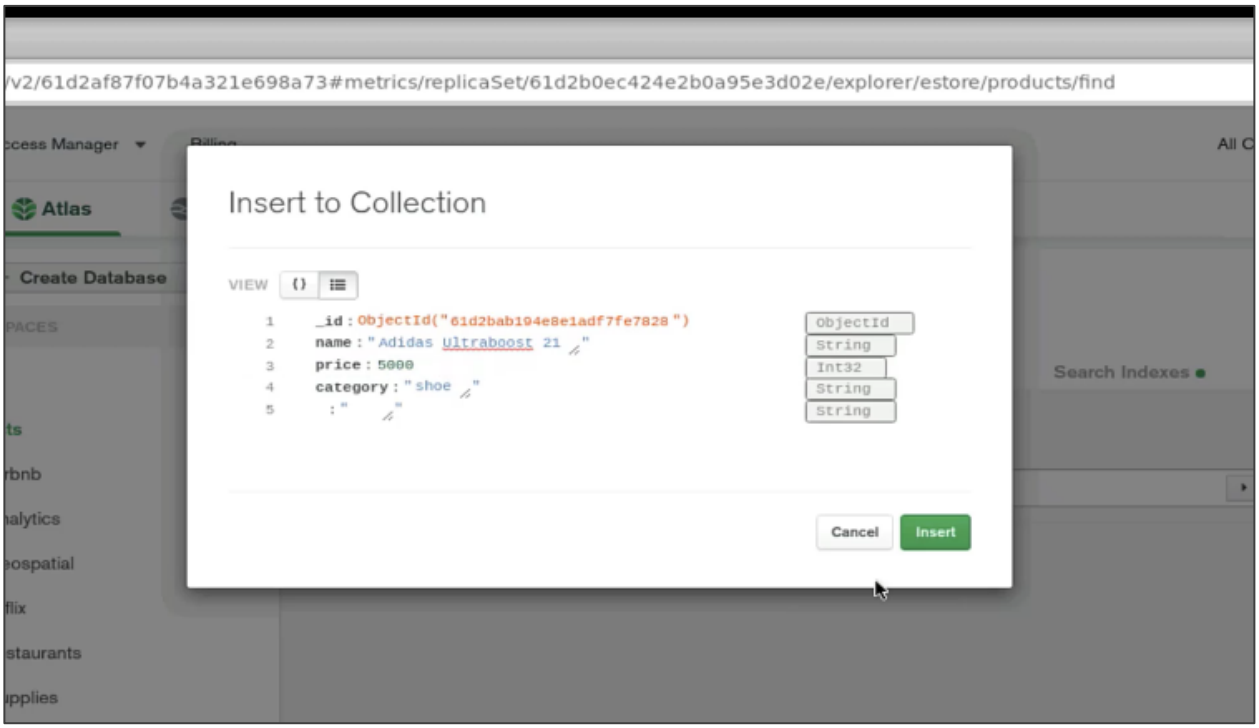
4.1 Click on **INSERT DOCUMENT**



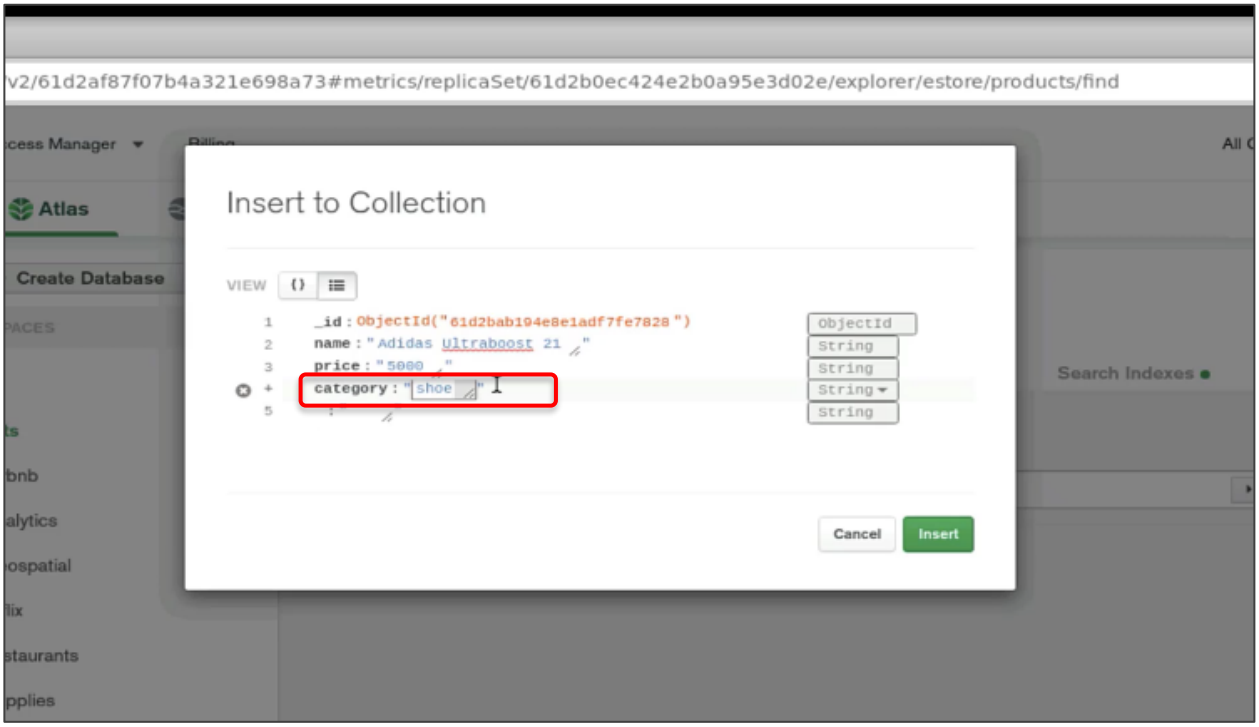
4.2 Enter the **name** and **key** for a product document



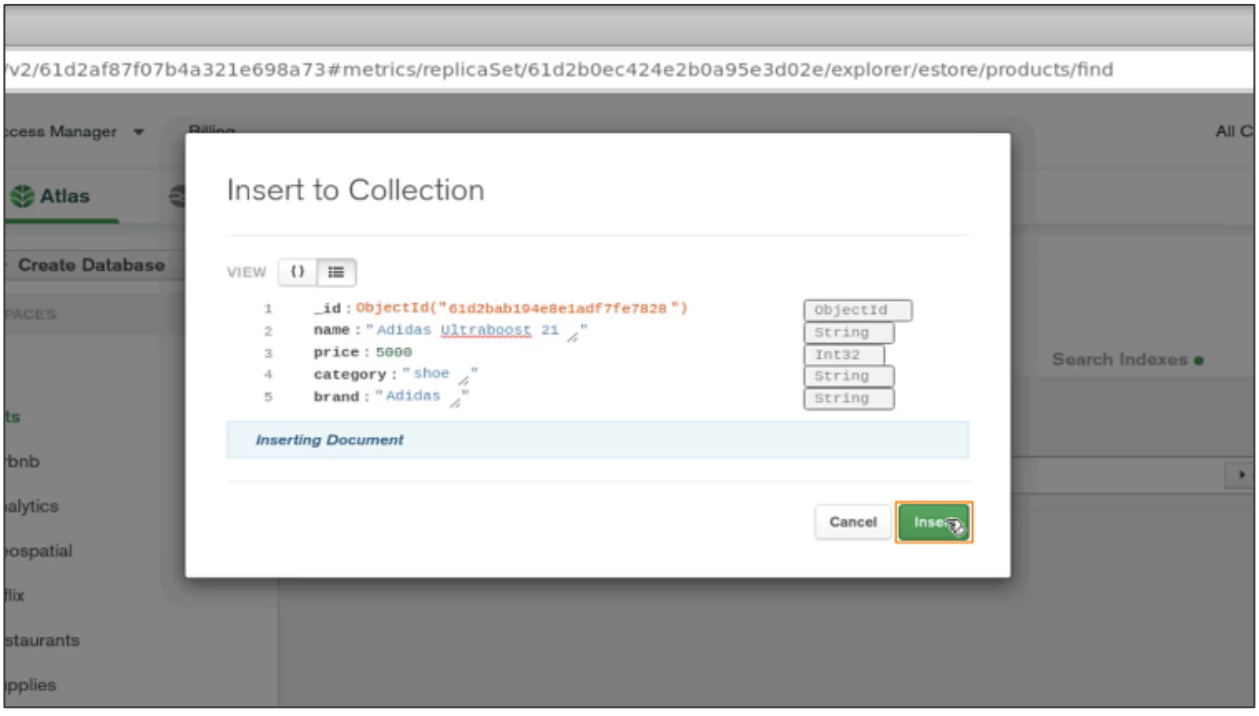
4.3 Add one more attribute named **price** and set the data type to **Integer**



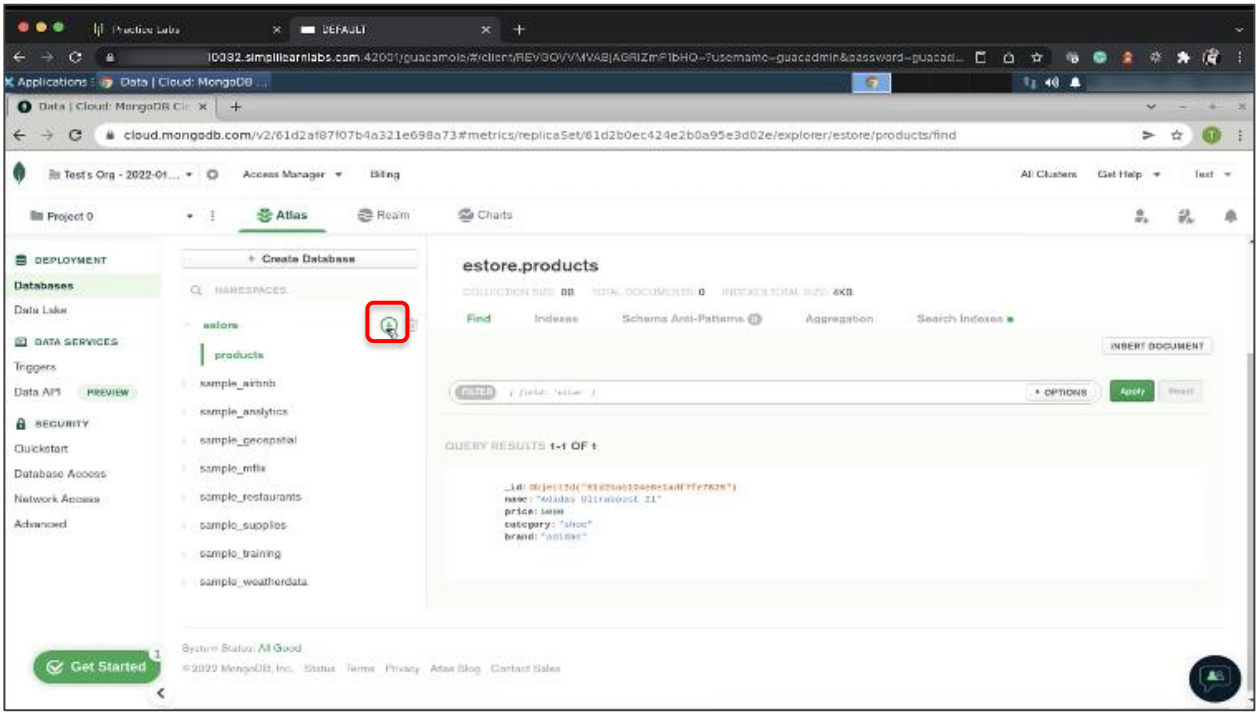
4.4 Add an attribute called **category**



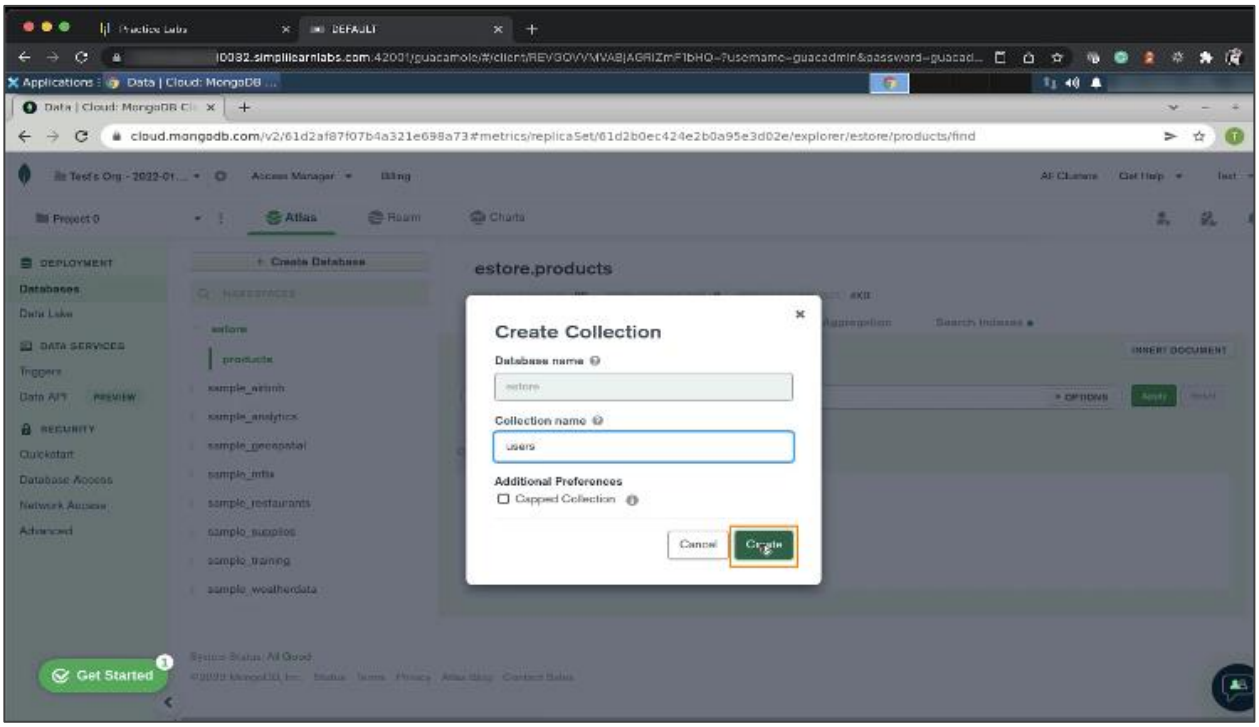
4.5 Add a brand with a key and click on the **Insert** button



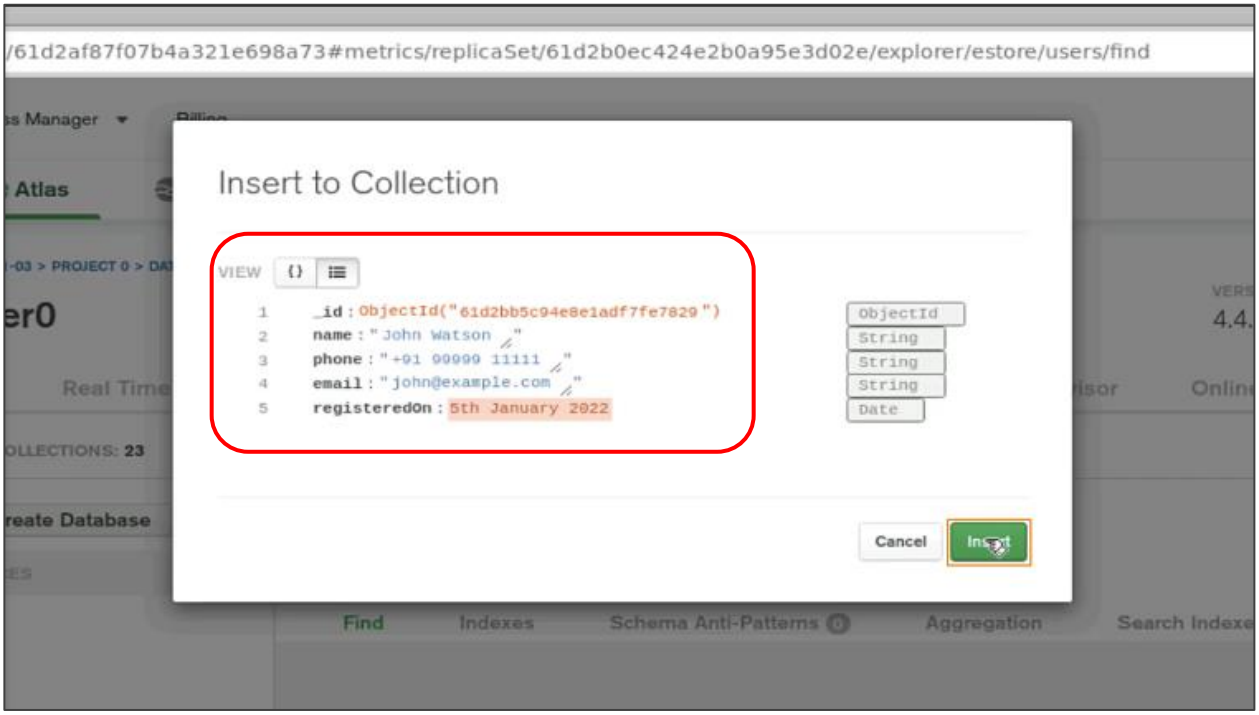
4.6 Click the **+** button to create another collection in the database



4.7 Add the collection name and select the **Create** button

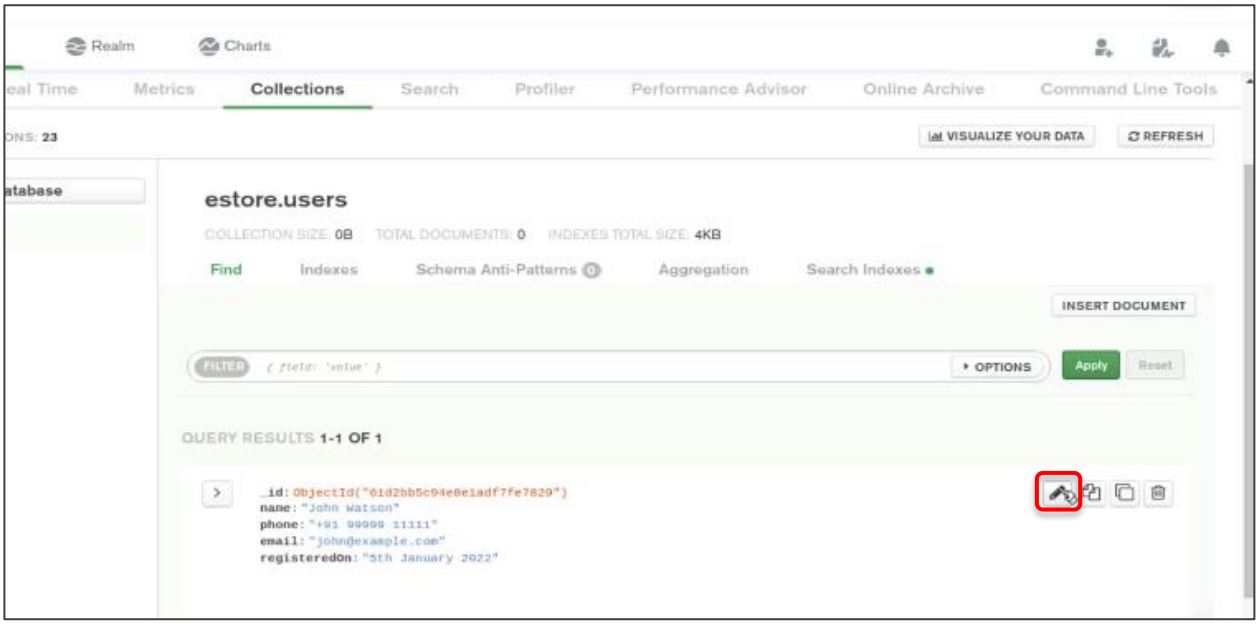


4.8 Insert the attributes under the user's collection and click **Insert**

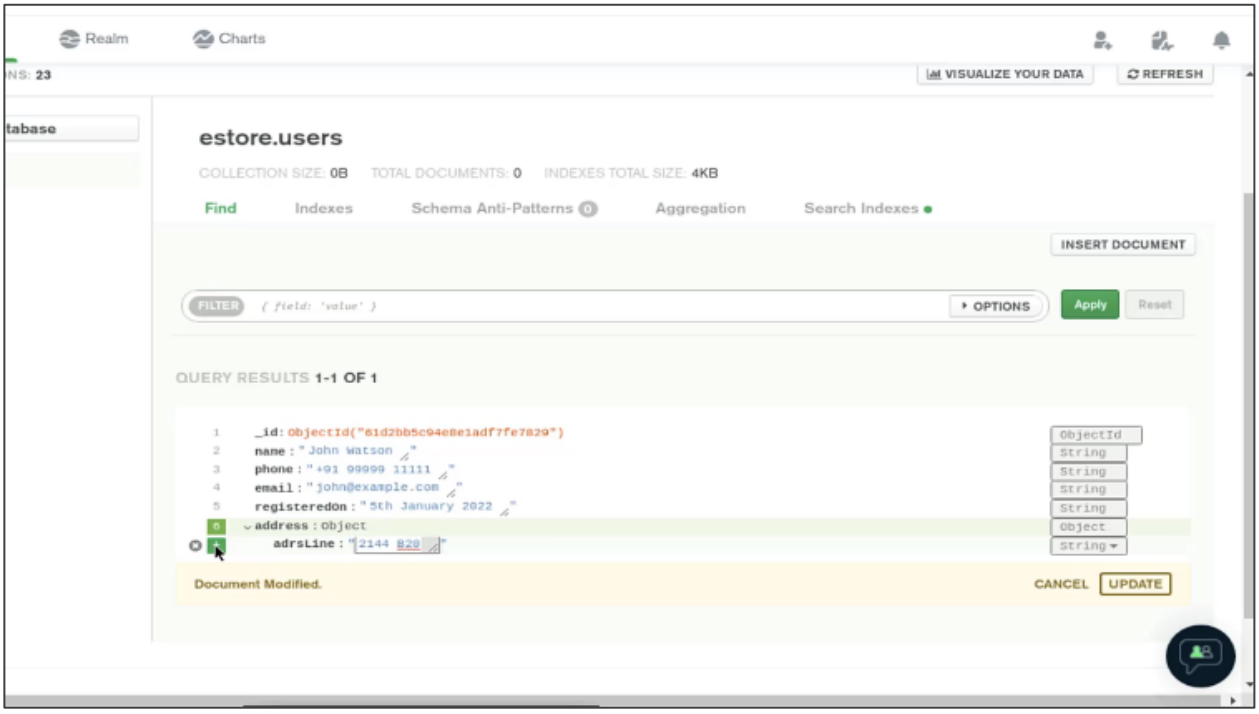


Step 5: Edit the document

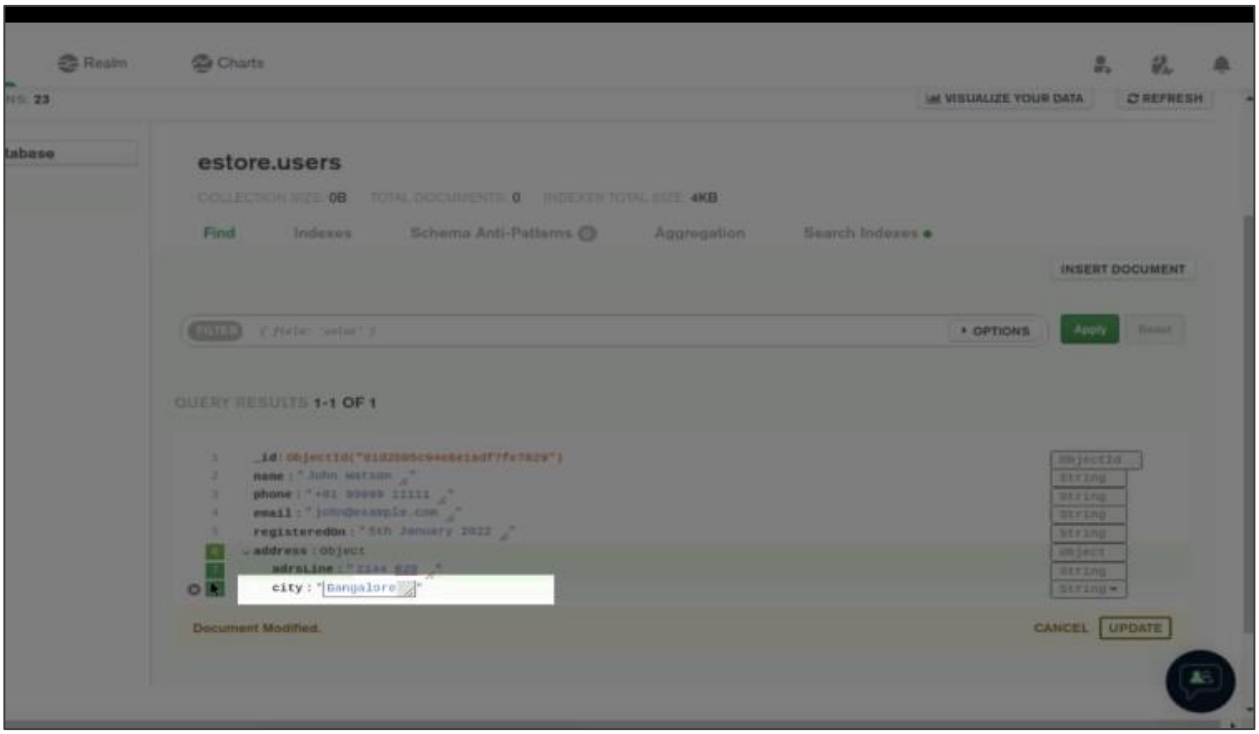
5.1 Click on the edit icon to edit the document



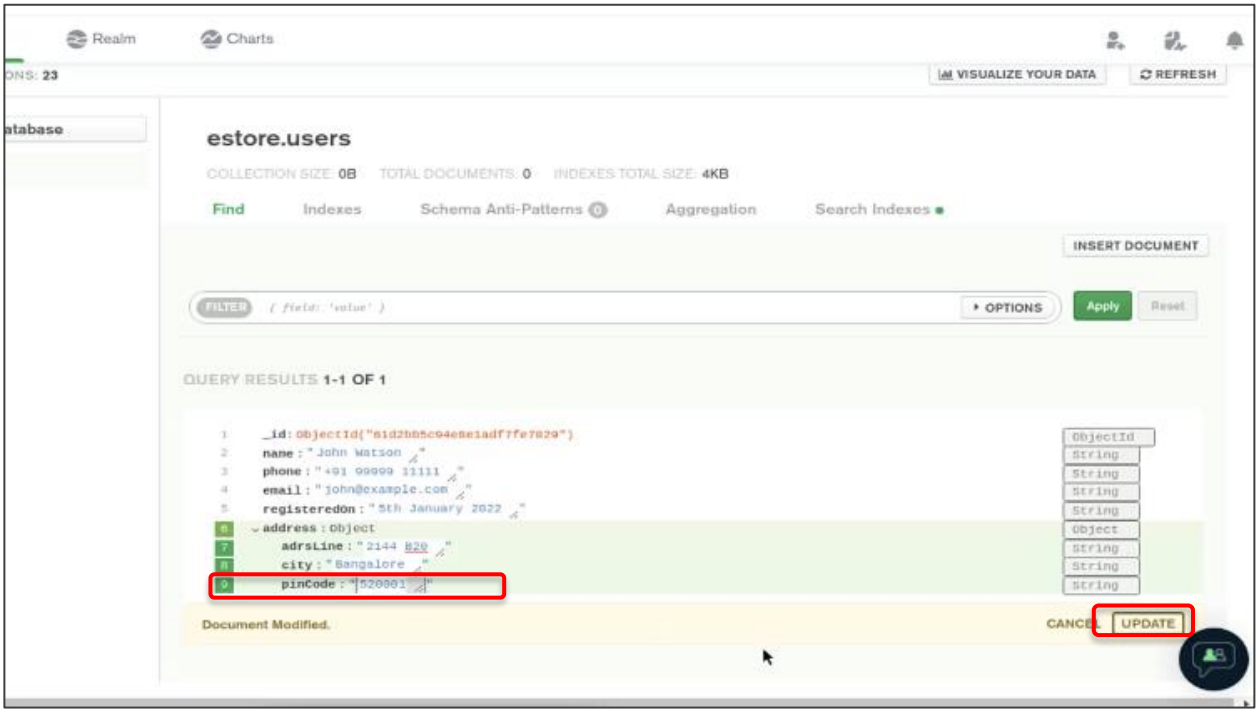
5.2 Create address object for the users



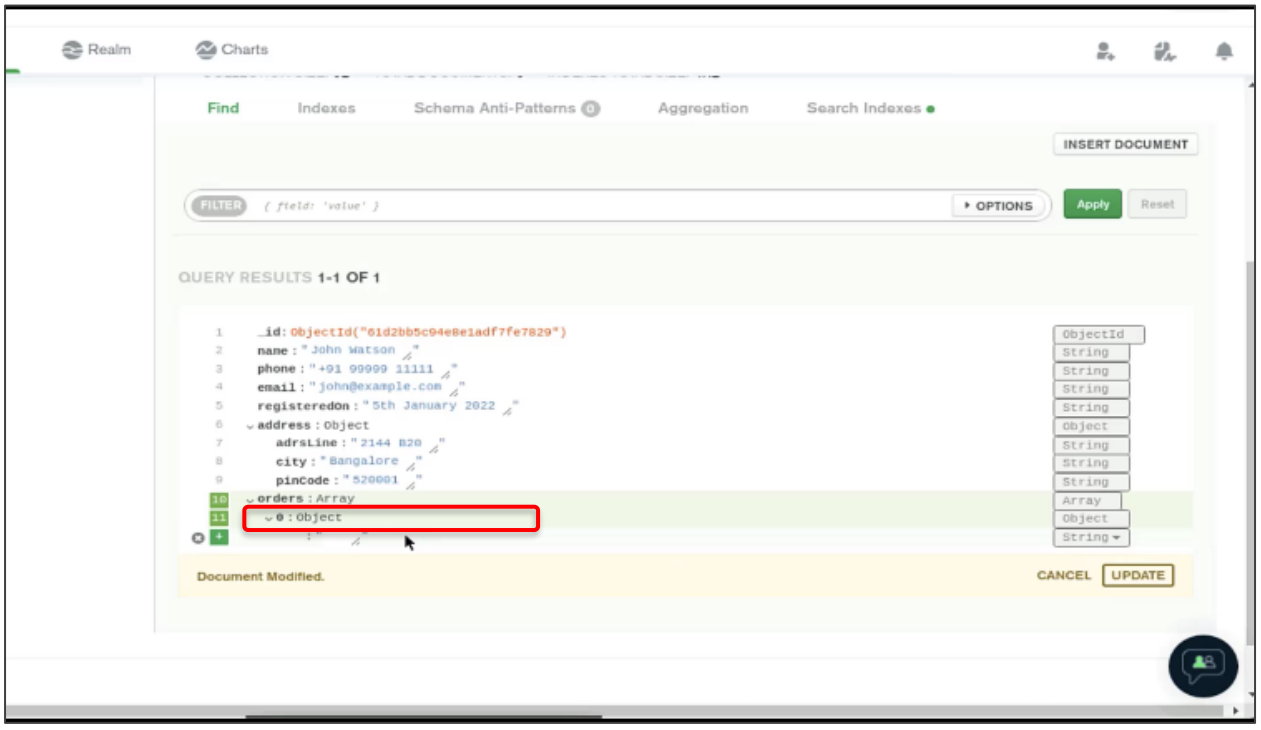
5.3 Add a field in the address as a **city**



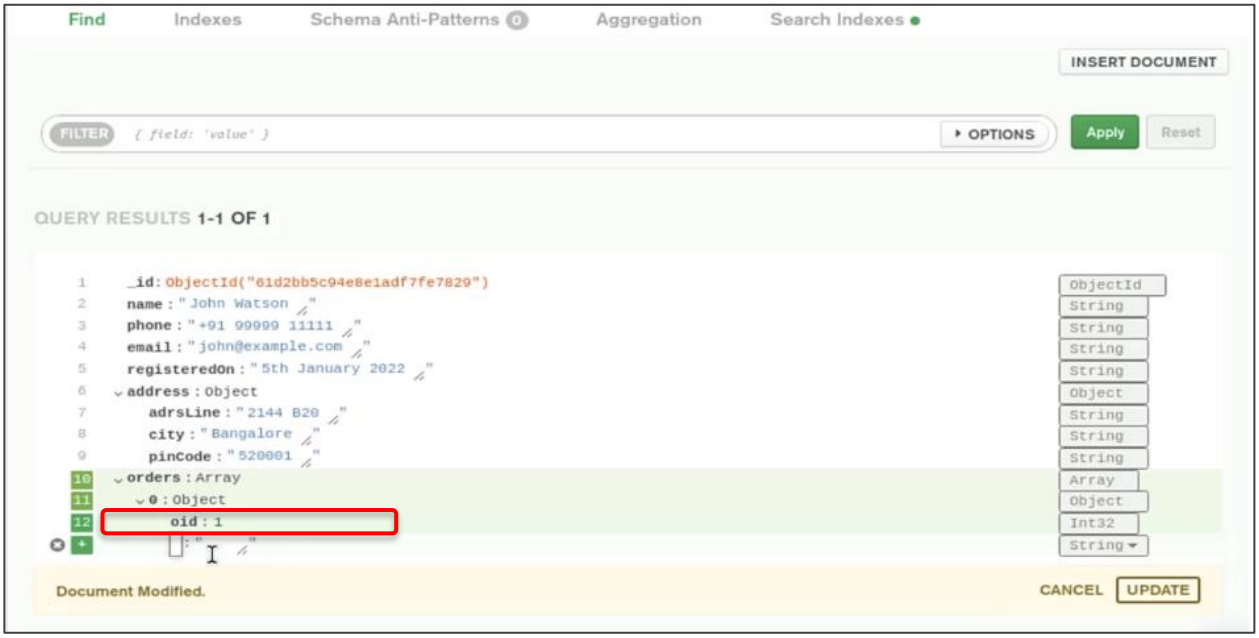
5.4 Add a **pincode** field and click on **Update**



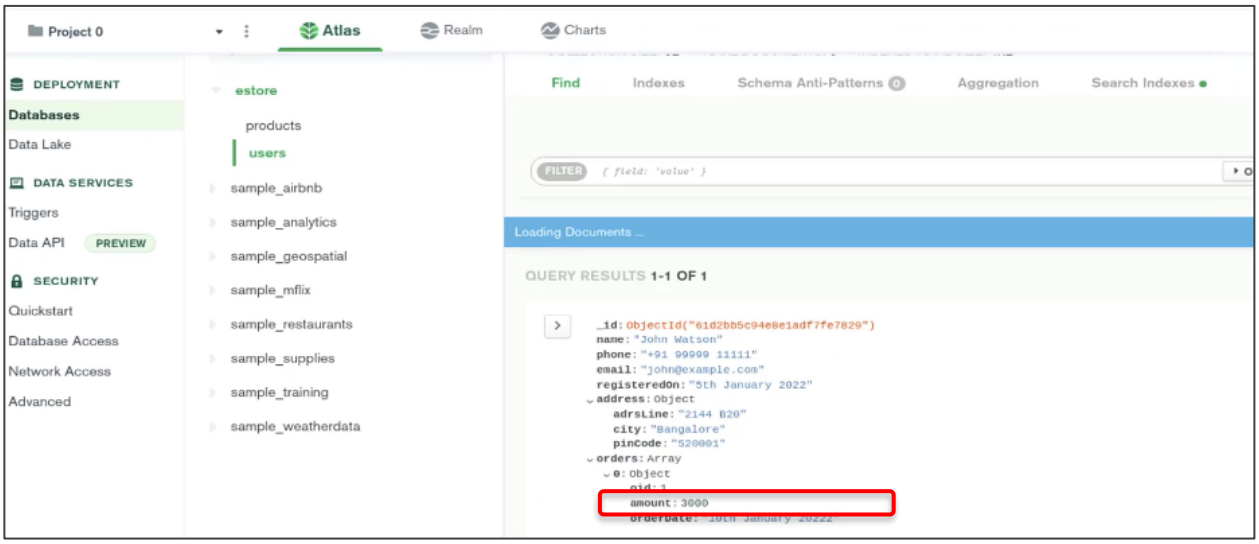
5.5 Add an **orders** attribute



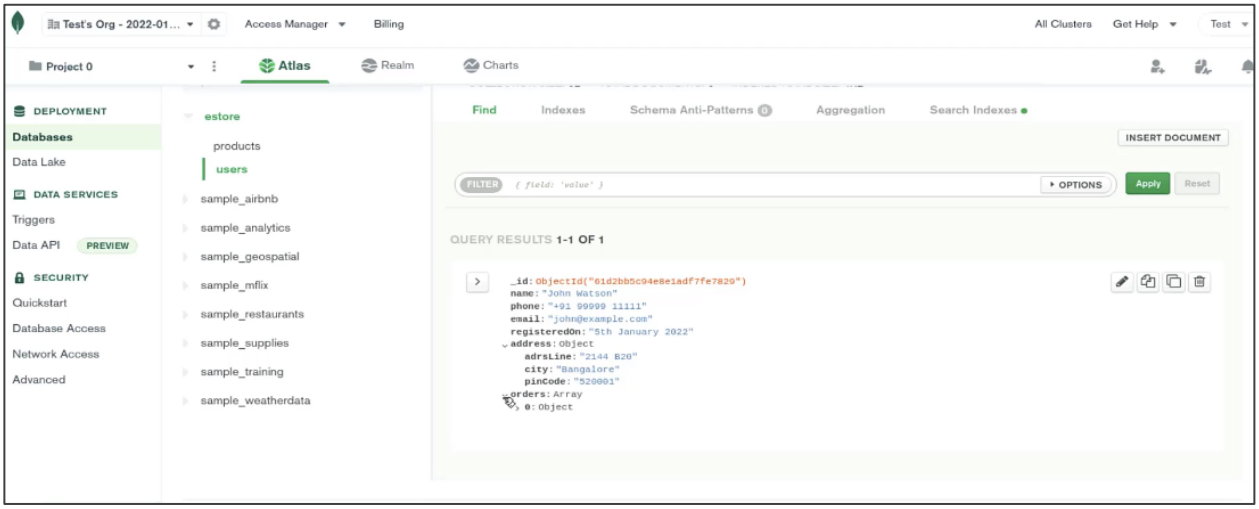
5.6 Add an object with an **order id**



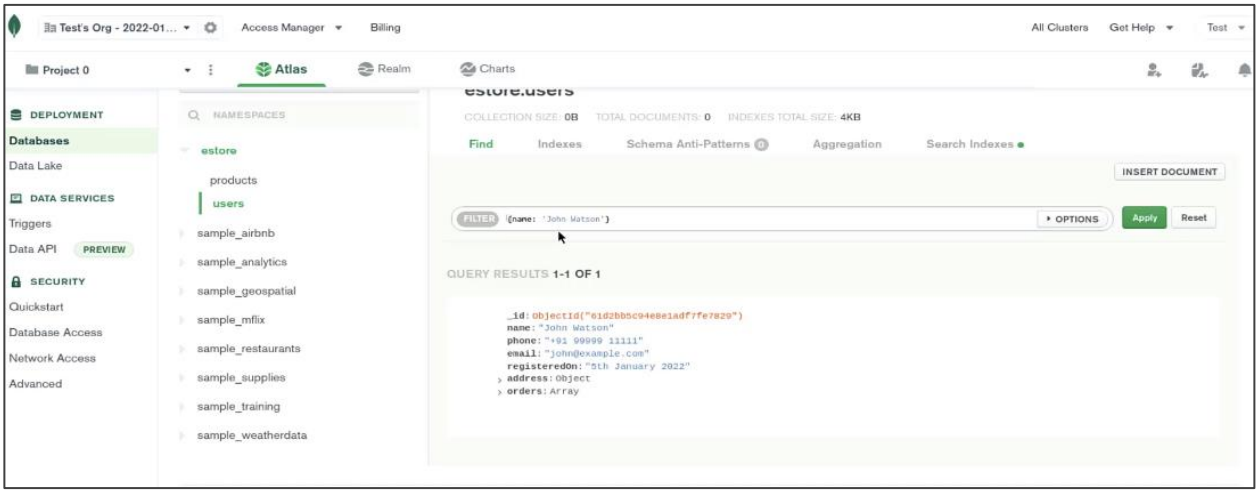
5.7 Add a field named **amount**



5.8 Add another field named **orderDate** and click on **UPDATE**



5.9 Use **FILTER** to sort the data according to your needs



We can explore the MongoDB Atlas database collection and documents by creating a database user and connecting it to the database. We can also create multiple filters to filter out data based on the requirement.

By following these steps, you have successfully explored the MongoDB Atlas database collection and documents by creating a database user and connecting to the database.