INDEX

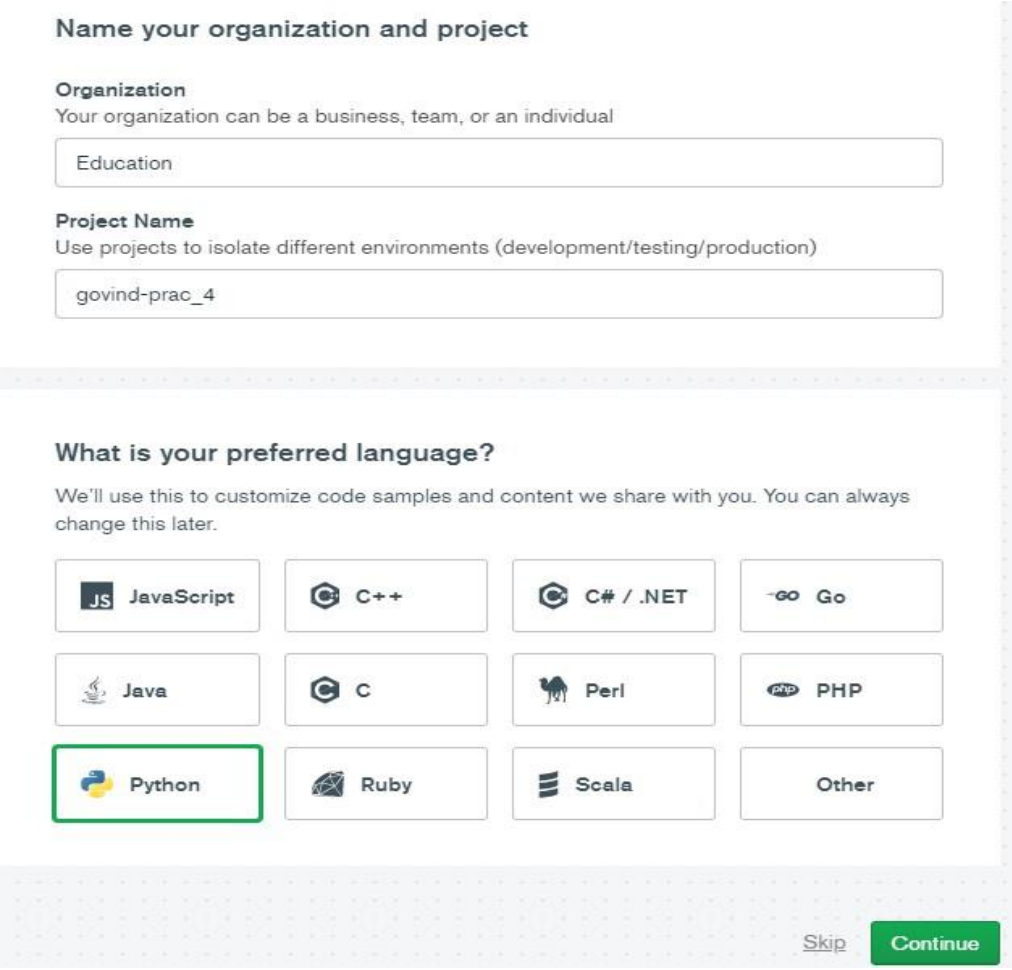
Prac. No.	Practical	Date	Sign
1	Install, configure and run Hadoop and HDFS and explore HDFS		
2	Implement Decision tree classification techniques		
3	Implement SVM classification techniques.		
4	Implement of REGRESSION MODLE.		
5	Implement of Simple Linear Regression.		
6	Implement of Multiple Linear Regression.		
7	Implement of Logistic regression.		
8	Read a datafile grades_km_input.csv and apply k-means clustering		
9	Perform Apriori algorithm using Groceries dataset from the R rules package		
10	Implement an application that stores big data in Hbase / MongoDB and manipulate it using R / Python		

PRACTICAL 10

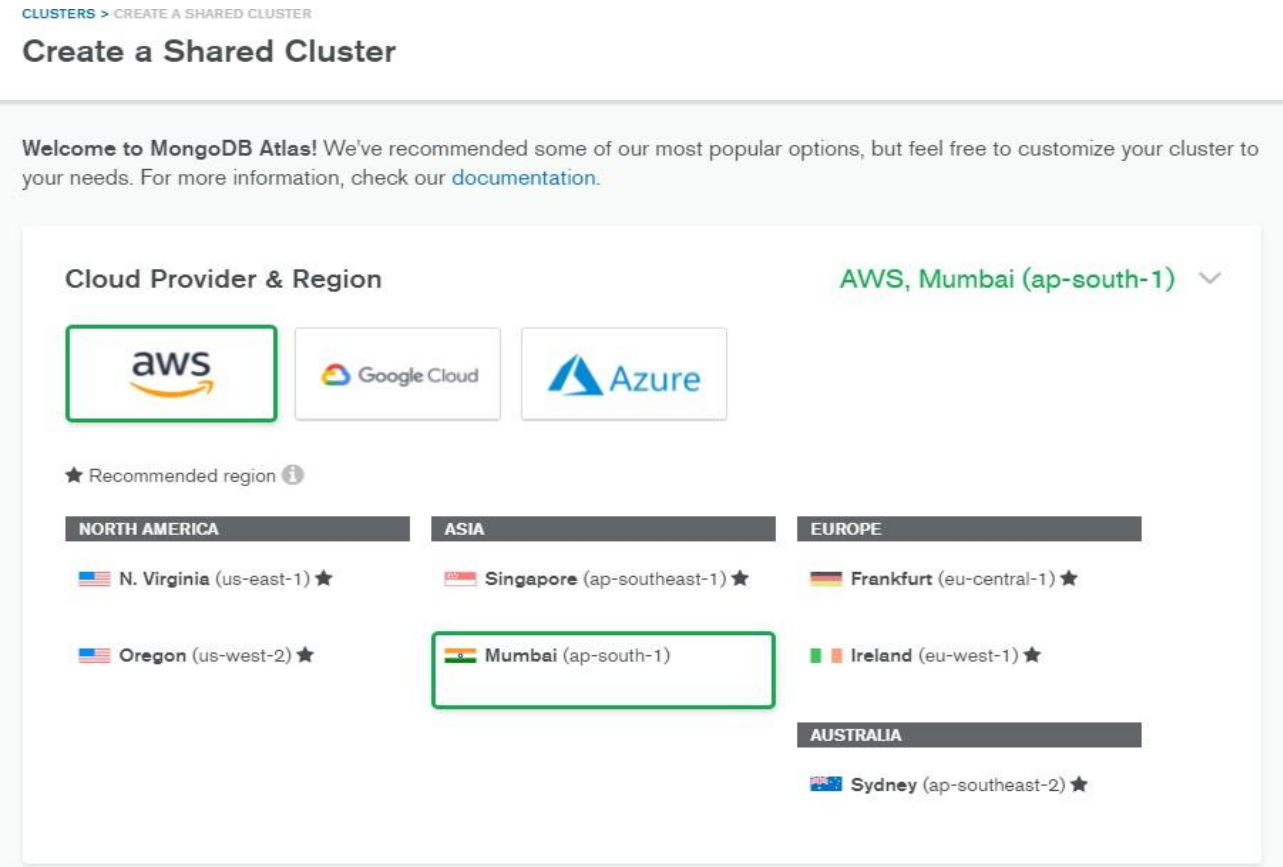
Aim: Implement an application that stores big data in Hbase / MongoDB and manipulate it using R / Python

Description:

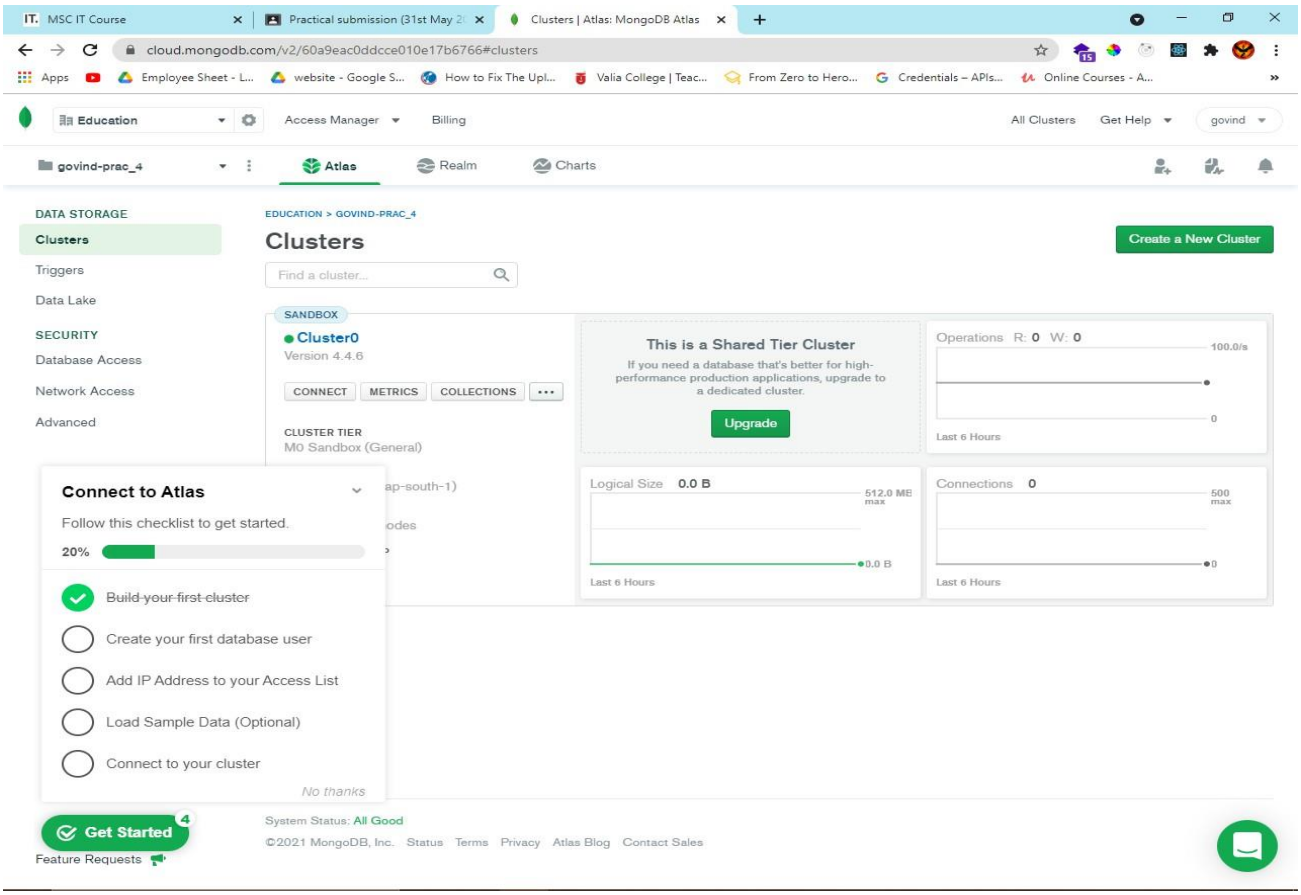
MongoDB is a source-available cross-platform document-oriented database program. Classified as a NoSQL database program, MongoDB uses JSON-like documents with optional schemas. MongoDB is developed by MongoDB Inc. and licensed under the Server Side Public License

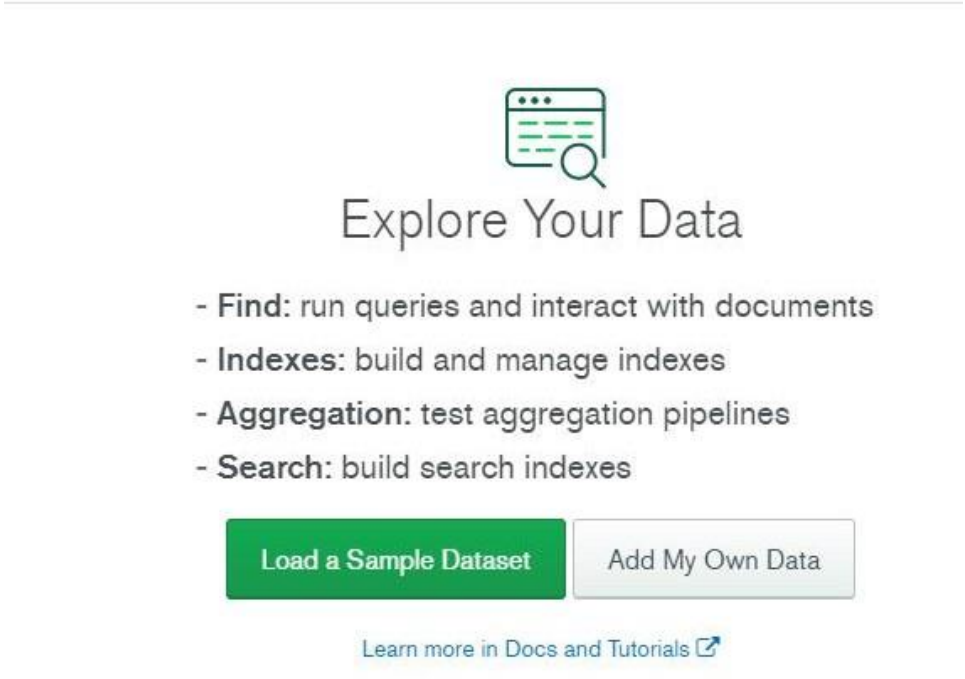


Step 1 : Sign up and create a cluster.



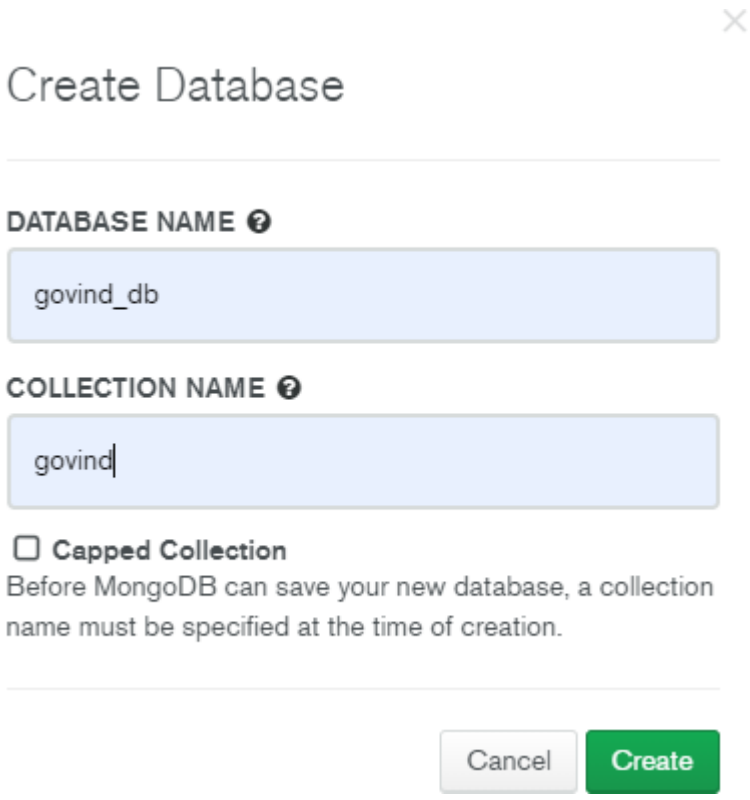
This is the home page of mongoDB Atlas.


MSC IT Course
Practical submission (31st May 2
Clusters | Atlas: MongoDB Atlas
cloud.mongodb.com/v2/60a9eac0ddcce010e17b6766#clusters
Education
Access Manager
Billing
All Clusters
Get Help
govind
govind-prac_4
Atlas
Realm
Charts
DATA STORAGE
Clusters
Triggers
Data Lake
SECURITY
Database Access
Network Access
Advanced
EDUCATION > GOVIND-PRAC_4
Clusters
Create a New Cluster
Find a cluster...
SANDBOX
Cluster0
Version 4.4.6
CONNECT
METRICS
COLLECTIONS
CLUSTER TIER
M0 Sandbox (General)
This is a Shared Tier Cluster
If you need a database that's better for high-performance production applications, upgrade to a dedicated cluster.
Upgrade
Operations R: 0 W: 0
100.0/s
0
Last 6 Hours
Logical Size 0.0 B
512.0 MB max
0.0 B
Last 6 Hours
Connections 0
500 max
0
Last 6 Hours
Connect to Atlas
Follow this checklist to get started.
20%
Build your first cluster
Create your first database user
Add IP Address to your Access List
Load Sample Data (Optional)
Connect to your cluster
No thanks
Get Started
4
Feature Requests
System Status: All Good
©2021 MongoDB, Inc. Status Terms Privacy Atlas Blog Contact Sales

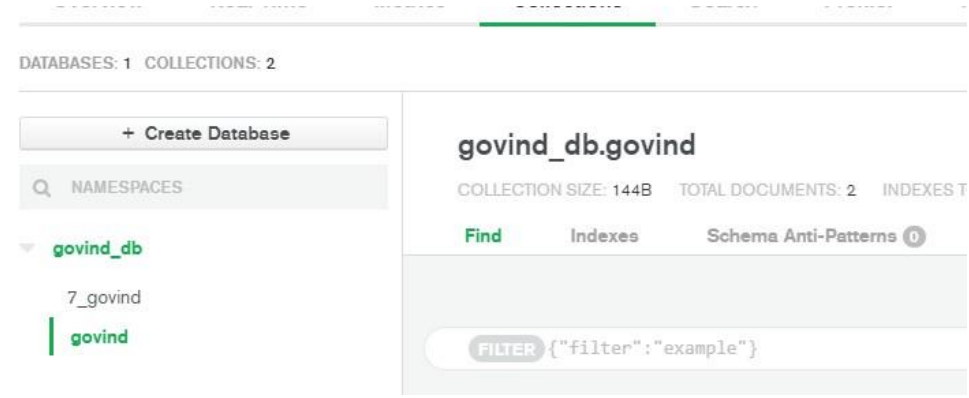


Step 2 : Click on collections to create and view existing databases.

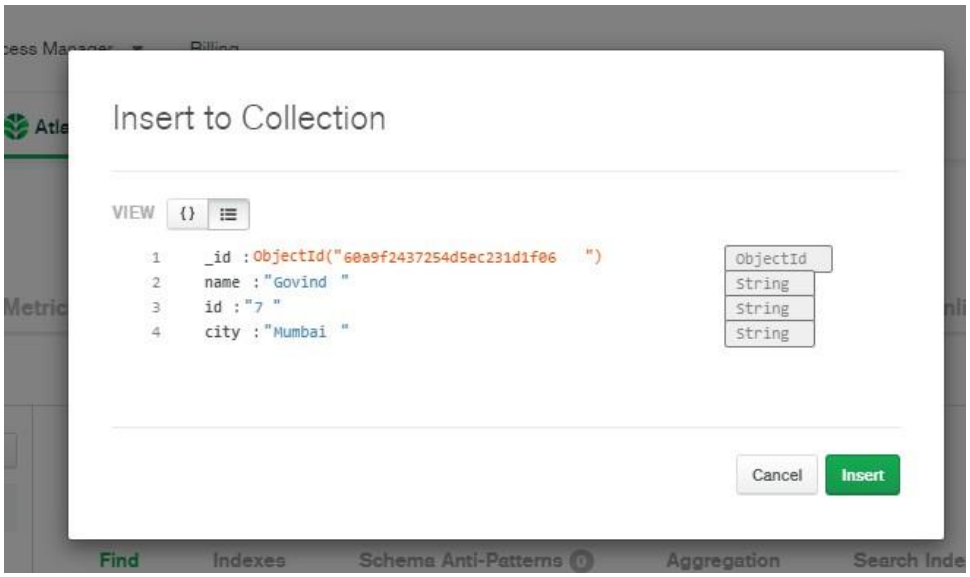
Step 3 : Click on 'Add My Own Data' to create a database.



Step 4 : Click on insert document to add records.



Since MongoDB is a No-SQL database, so you can add 'n' number of columns for any row/record.



Perform updating data

Performing deleting data

```
_id: ObjectId("60a9f2437254d5ec231d1f06")
name: "Govind Saini"
id: "7"
city: "Mumbai"

_id: ObjectId("60a9f4917254d5ec231d1f07")
name: "Sayali Mam"
id: "8"
city: "Mumbai"
```

Deleting Document.

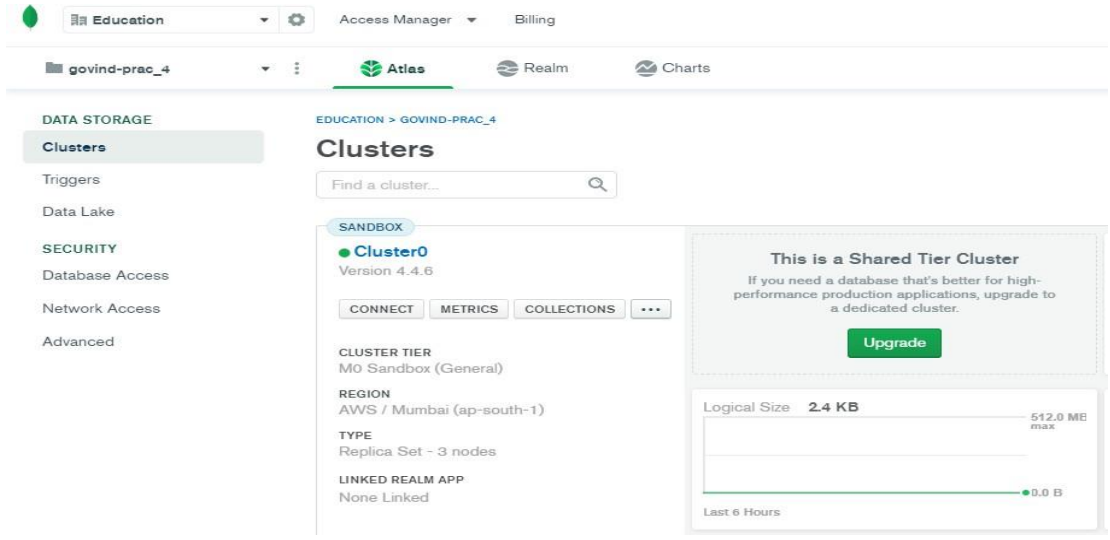
Performing Insert data

QUERY RESULTS 1-2 OF 2

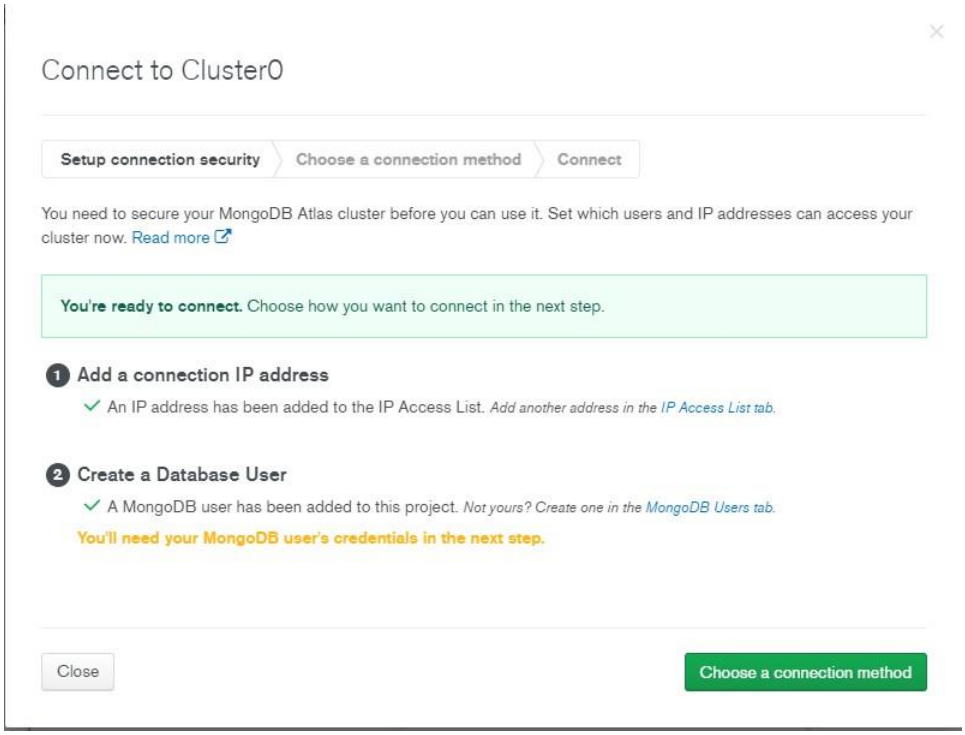
```
_id: ObjectId("60a9ff027254d5ec231d1f0b")
name: "Govind Saini"
id: " 7"
city: "Mumbai"

_id: ObjectId("60a9ff3a7254d5ec231d1f0c")
name: "Sohrab Sir"
id: " 5"
city: "Mumbai"
```

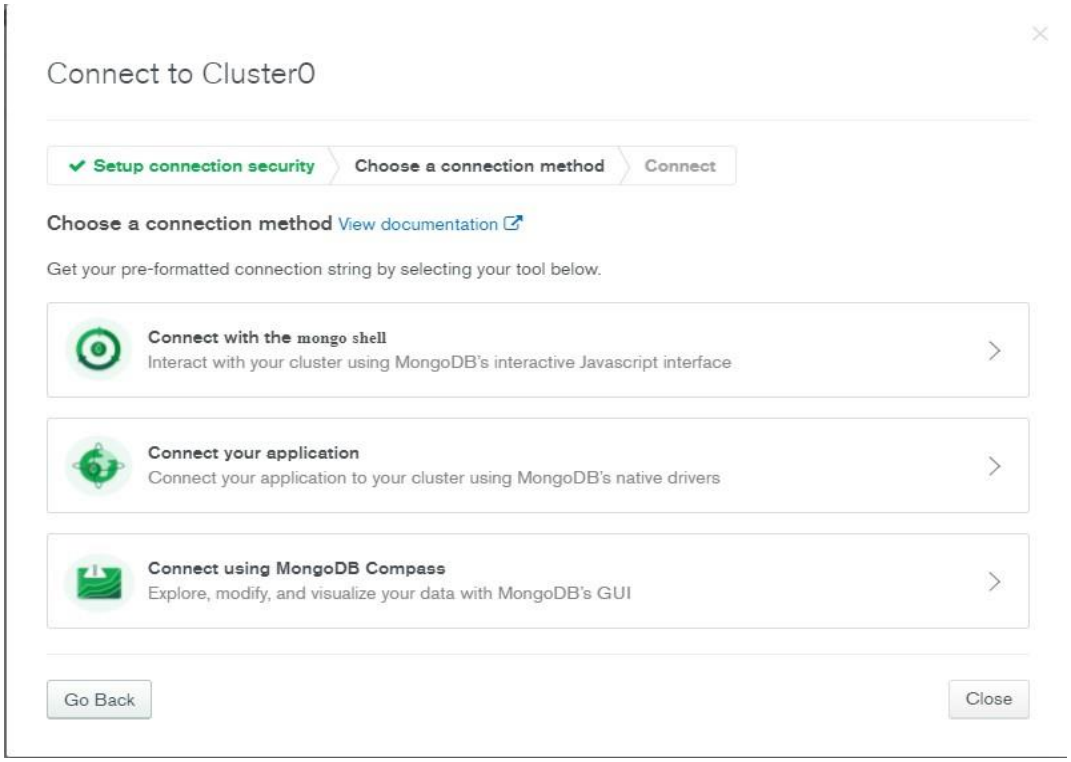
Step 5 : To start with the connection click on Overview, and then click on Connect.



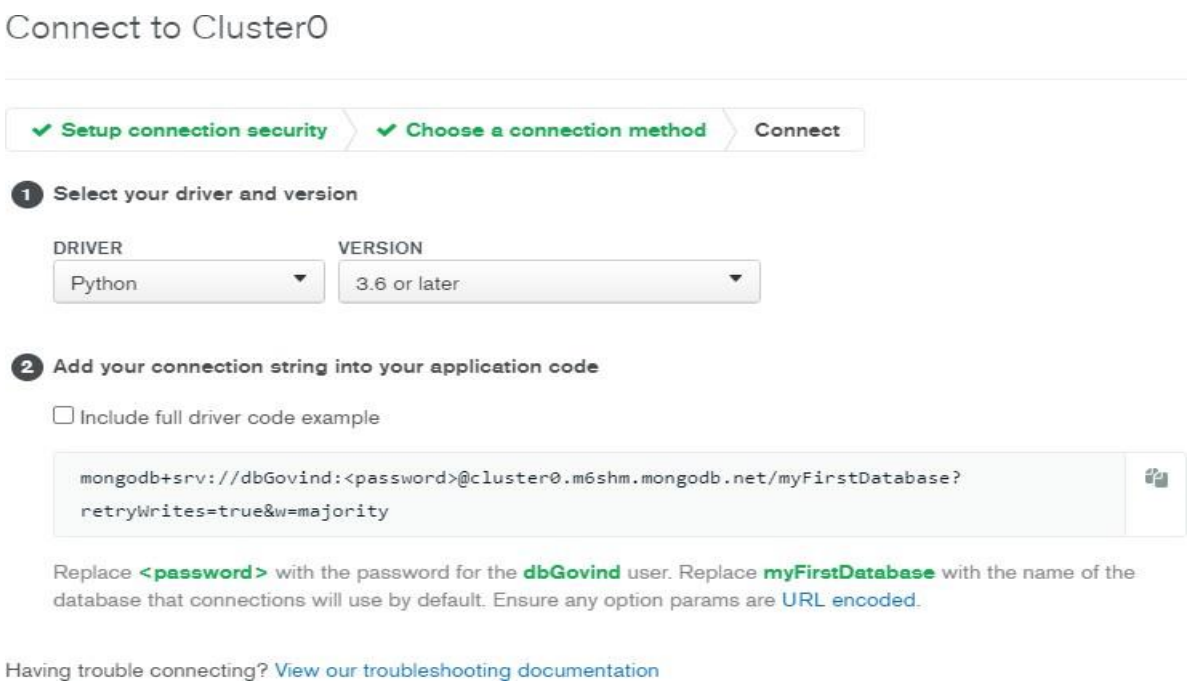
Step 6 : Select on add your current IP and create a MongoDB user.



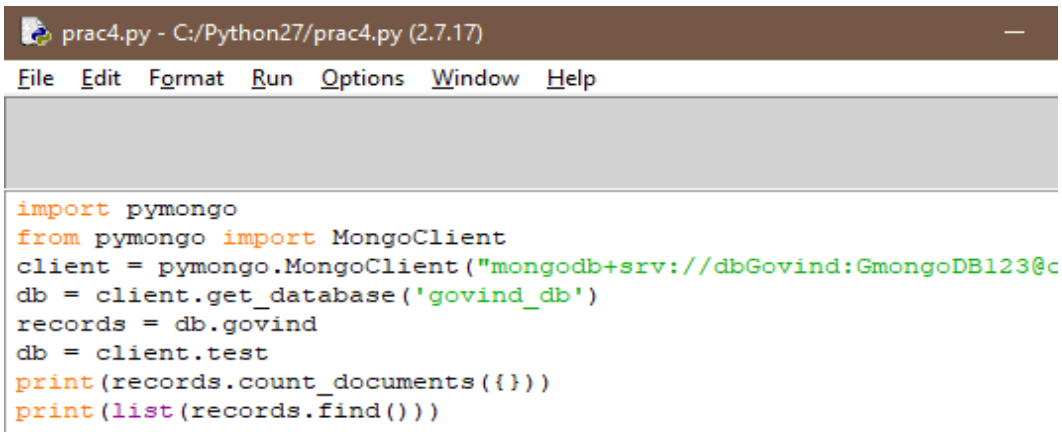
Step 7 : Click on 'Connect your application'.



Step 8 : Select the driver as 'Python' and version as '3.6 or later'. (Select the version as 3.6 or later only if your Python's version is 3.6 or later.)



Step 9 : Write the code given below in a Python file.



Output :

```
======================== RESTART: C:/Python27/prac.py ========================
2[{"_id":{"$oid":"60a9ff027254d5ec231d1f0b"},"name":"Govind Saini","id":" 7","city"
:"Mumbai"}{"_id":{"$oid":"60a9ff3a7254d5ec231d1f0c"},"name":"Sohrab Sir","id":" 5",
"city":"Mumbai"}]
>>>
```