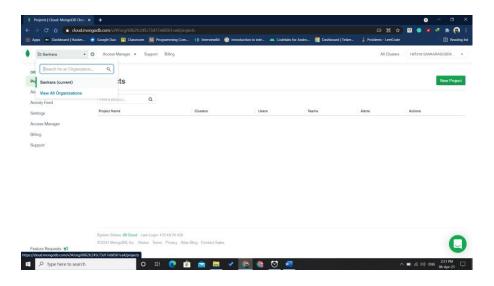
Ex.No : 6	MongoDB Atlas
06.04.2021	Mongobb Adas

Aim

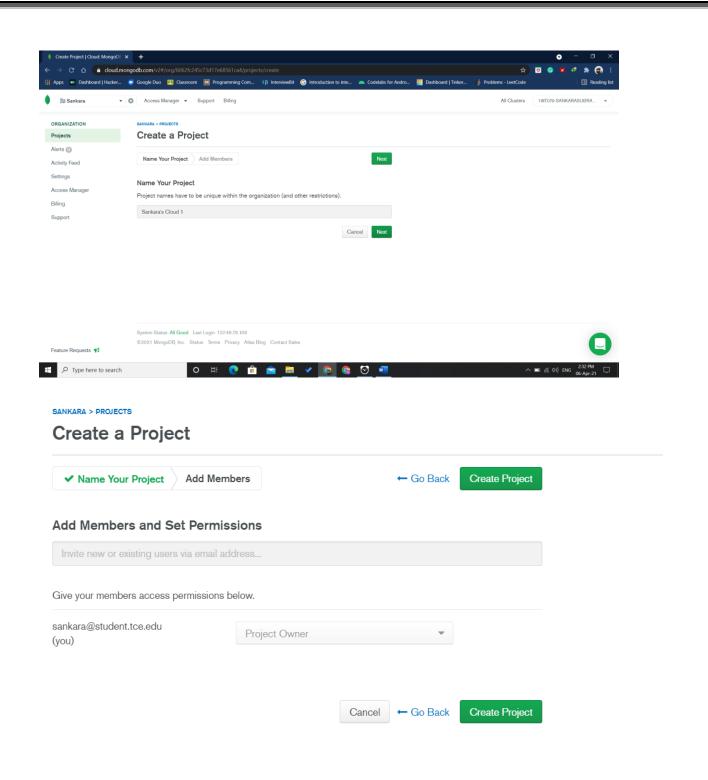
To create a cluster in mongodb atlas and access database via node.js.

Procedure

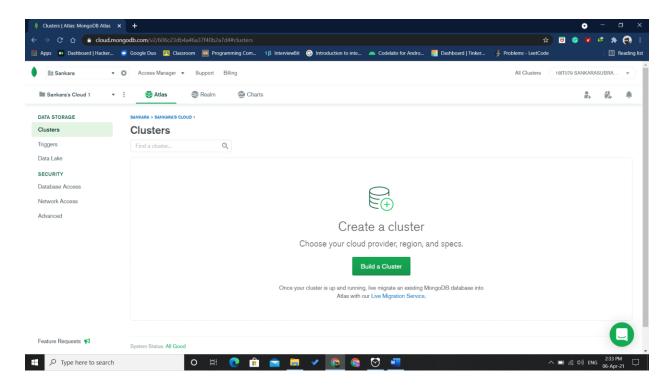
- 1. Create an account on https://cloud.mongodb.com/ and login.
- 2. Create an organization.



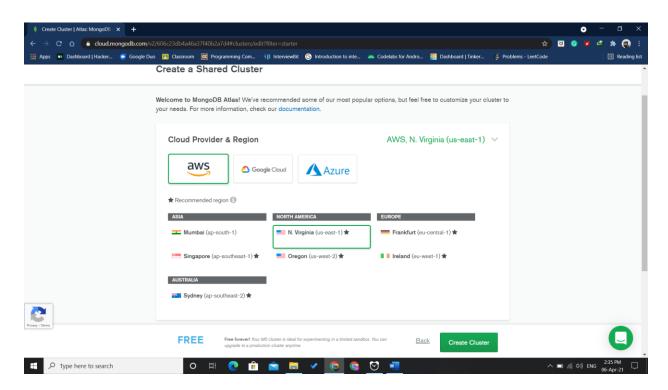
3. Create a new project.

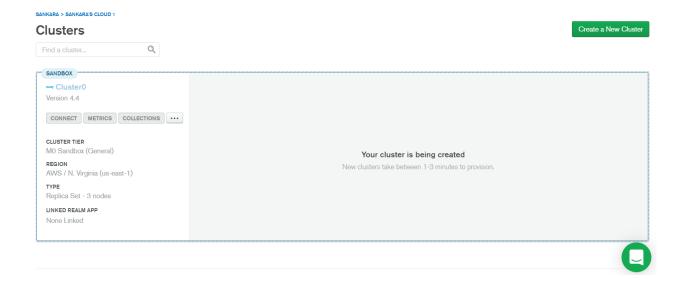


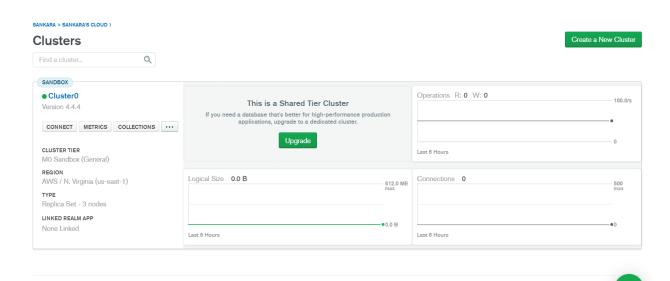
4. Create a new cluster (Shared M0) after the project is created.



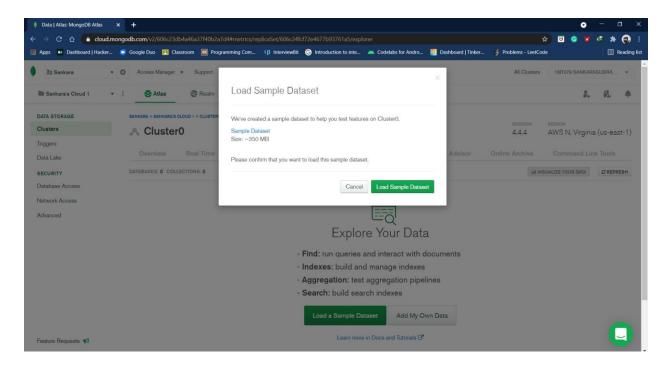
5. Select the required fields and create cluster.

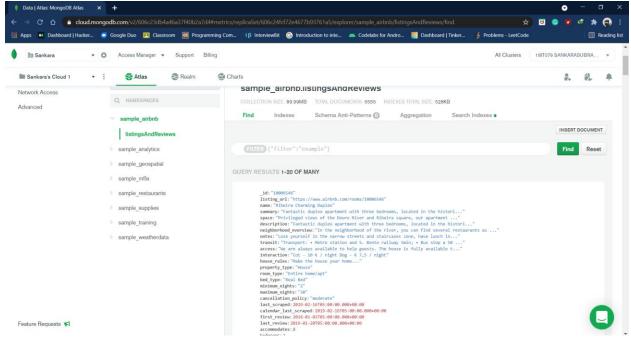




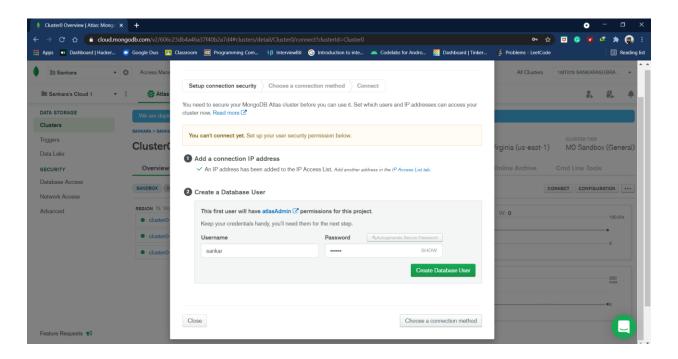


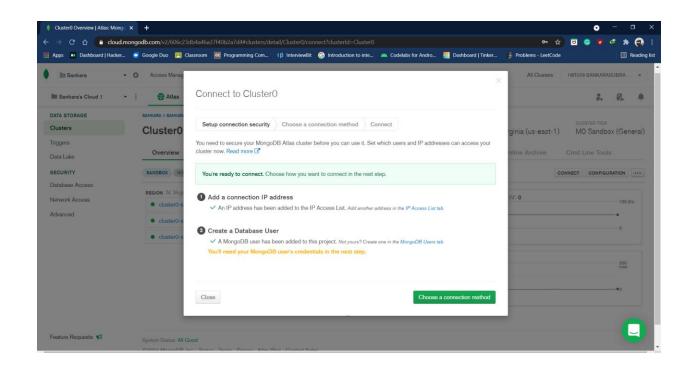
6. Load the sample dataset into the collection



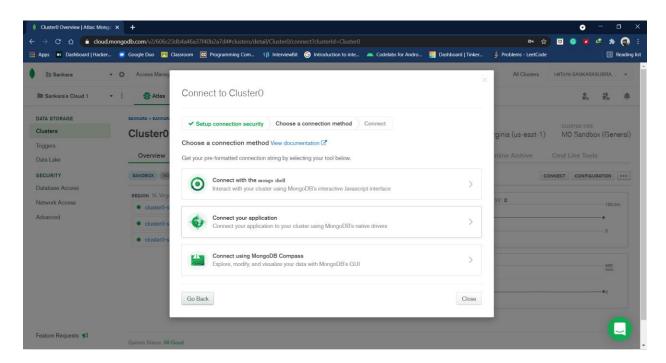


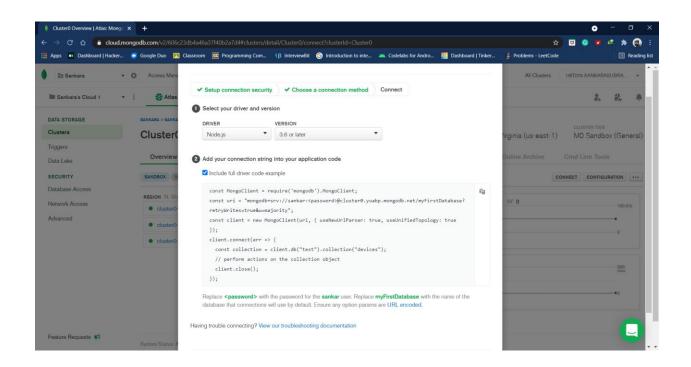
7. Add IP address and Create database user.





8. Connect your application to the cluster.

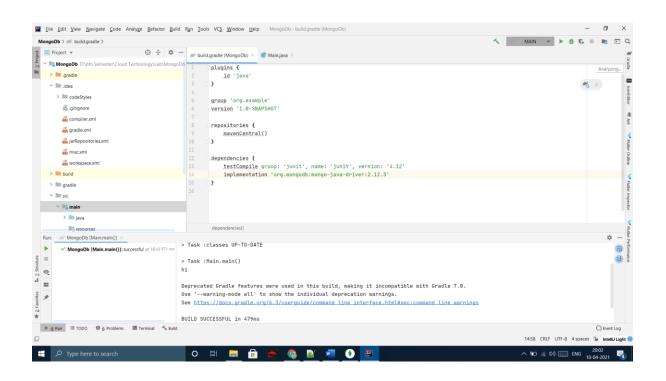




9. Perform some operation from node js and run to see the result.

```
PS D:\College Works\2020 VI Sem\Cloud\Lab Exp> node connect.js
Client connecting...
PS D:\College Works\2020 VI Sem\Cloud\Lab Exp> node connect.js
Client connecting...
Databases:
-sample_airbnb
-sample_analytics
-sample_mflix
-sample_mflix
-sample_restaurants
-sample_restaurants
-sample_training
-sample_training
-sample_weatherdata
-admin
-local
PS D:\College Works\2020 VI Sem\Cloud\Lab Exp> __
```

10. Import the necessary jar files for mongodb java driver.



Code for CRUD Operations(Select All):

```
import com.mongodb.*;
import org.json.JSONObject;
import java.util.Iterator;

public class Main {
    public static void main(String[] arg)
    {
        try {
            MongoClientURI uri = new MongoClientURI(
```

```
"mongodb+srv://YYYY:XXXX@crop.ry3da.mongodb.net/myFirstDatabase?
retryWrites=true&w=majority");
     MongoClient mongoClient = new MongoClient(uri);
     DB db=mongoClient.getDB("Scriptons");
     DBCollection crop=db.getCollection("Water");
     DBCursor cursor=crop.find();
     JSONObject jsonObject=new JSONObject(cursor.next().toString());
     JSONObject
water=jsonObject.getJSONObject("yajith").getJSONObject("water_level");
     Iterator<String> iterator=water.keys();
     while (iterator.hasNext())
     {
       String keys=iterator.next();
       System.out.println(keys+" "+water.getString(keys));
   } catch (Exception e) {
     e.printStackTrace();
   }
Code for CRUD Operations(Insert):
import com.mongodb.*;
```

```
import\ com. mongodb. client. Mongo Collection;
import org.bson.Document;
import org.bson.types.ObjectId;
import org.json.JSONObject;
import java.util.ArrayList;
import java.util.HashMap;
import java.util.Iterator;
import java.util.List;
public class Main {
  public static void main(String[] arg)
  {
```

```
try {
     MongoClientURI uri = new MongoClientURI(
"mongodb+srv://yajith:vishwa@crop.ry3da.mongodb.net/myFirstDatabas
e?retryWrites=true&w=majority");
     MongoClient mongoClient = new MongoClient(uri);
     DB db=mongoClient.getDB("Scriptons");
     DBCollection crop=db.getCollection("Water");
     HashMap<String> map=new HashMap<>();
     map.put("field1","20");
     map.put("field2","100");
     map.put("field3","10");
```

```
map.put("field4","50");
     DBObject dbObject=new BasicDBObject("sankar",map);
     crop.insert(dbObject);
   } catch (Exception e) {
     e.printStackTrace();
   }
 }
}
Code for CRUD Operations(Delete):
import com.mongodb.*;
import com.mongodb.client.MongoCollection;
import org.bson.Document;
```

```
import org.bson.types.ObjectId;
import org.json.JSONObject;
import java.util.ArrayList;
import java.util.HashMap;
import java.util.Iterator;
import java.util.List;
public class Main {
  public static void main(String[] arg)
 {
   try {
      MongoClientURI uri = new MongoClientURI(
"mongodb+srv://yajith:vishwa@crop.ry3da.mongodb.net/myFirstDatabas
e?retryWrites=true&w=majority");
      MongoClient mongoClient = new MongoClient(uri);
```

```
DB db=mongoClient.getDB("Scriptons");
 DBCollection crop=db.getCollection("Water");
 HashMap<String> map=new HashMap<>();
 map.put("field1","20");
 map.put("field2","100");
 map.put("field3","10");
 map.put("field4","50");
 DBObject dbObject=new BasicDBObject("sankar",map);
 crop.remove(dbObject);
} catch (Exception e) {
```

```
e.printStackTrace();
   }
}
Code for CRUD Operations(Create):
import com.mongodb.*;
import com.mongodb.client.MongoCollection;
import org.bson.Document;
import org.bson.types.ObjectId;
import org.json.JSONObject;
```

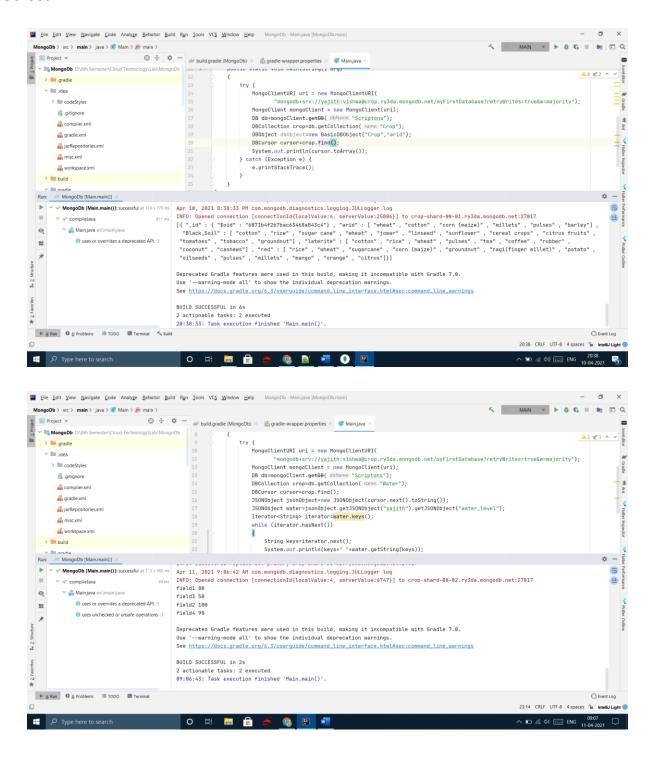
```
import java.util.ArrayList;
import java.util.HashMap;
import java.util.Iterator;
import java.util.List;
public class Main {
 public static void main(String[] arg)
 {
   try {
      MongoClientURI uri = new MongoClientURI(
"mongodb+srv://yajith:vishwa@crop.ry3da.mongodb.net/myFirstDatabas
```

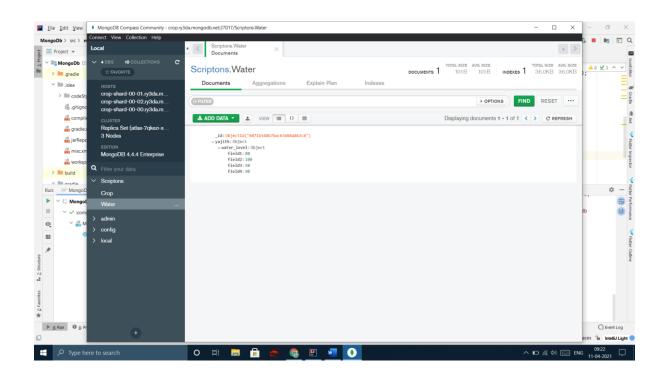
```
e?retryWrites=true&w=majority");
     MongoClient mongoClient = new MongoClient(uri);
     DB db=mongoClient.getDB("Scriptons");
     DBCollection crop=db.getCollection("Water");
     HashMap<String> map=new HashMap<>();
     map.put("field1","20");
     map.put("field2","100");
     map.put("field3","10");
     map.put("field4","50");
     DBObject dbObject=new BasicDBObject("sankar",map);
     db.createCollection("Dummy",dbObject);
```

```
} catch (Exception e) {
    e.printStackTrace();
}
```

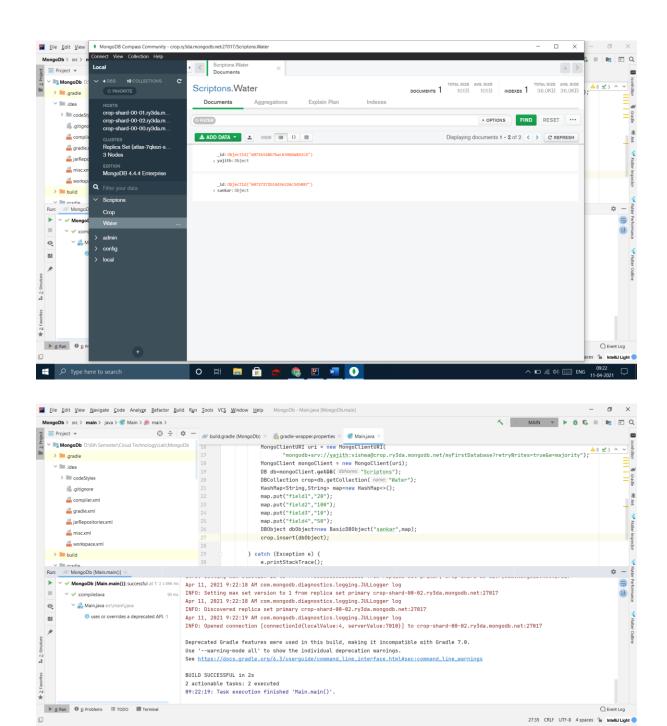
Screenshots:

Select All





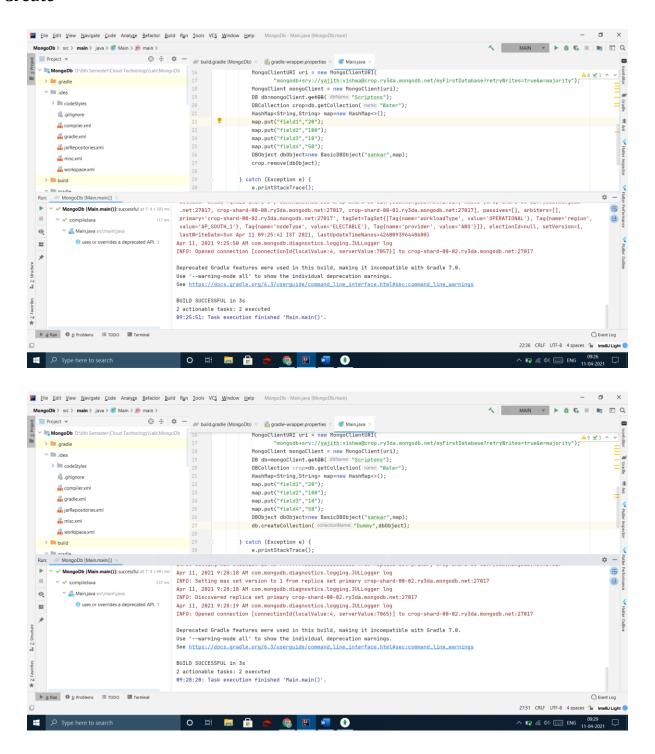
Insert Command



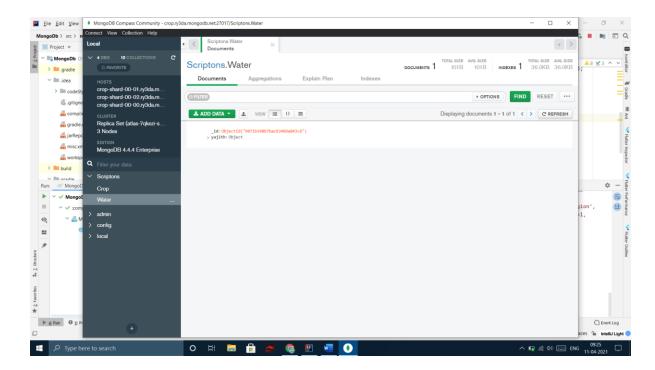
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Create



Delete



Result

Thus, application is connected to mongoDb atlas and CRUD operations is performed and the result is obtained.	S
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