

Practical No 5

Java and MongoDB

Connecting Java with MongoDB and inserting, retrieving, updating and deleting Code:

```
package com.mycompany.mongojava; import com.mongodb.MongoClient;
import com.mongodb.client.MongoDatabase; import com.mongodb.client.MongoCollection;
import org.bson.Document;
import java.util.Iterator;

import com.mongodb.client.FindIterable; import com.mongodb.client.model.Filters; import
com.mongodb.client.model.Updates; public class program {
public static void main(String args[])

{

MongoClient db=new MongoClient("localhost",27017); MongoDatabase
mydb=db.getDatabase("college"); System.out.println("Connected to the database
successfully"); mydb.createCollection("record"); System.out.println("Collection created
successfully");
MongoCollection<Document> col = mydb.getCollection("record");
System.out.println("Collection record selected successfully");
Document d = new Document("id", 101) .append("name", "ABC").append("class", "TYIT");
col.insertOne(d);
System.out.println("Document inserted successfully"); System.out.println("Document Retrieve
successfully"); FindIterable<Document> iterDoc = col.find();
Iterator it = iterDoc.iterator(); while (it.hasNext())
{
System.out.println(it.next());
}
System.out.println("Document update successfully"); System.out.println("Document Retrieve");
col.updateOne(Filters.eq("id", 101), Updates.set("name","AAA")); FindIterable<Document>
iterDoc1 = col.find();
Iterator it1 = iterDoc1.iterator(); while (it1.hasNext())
{

System.out.println(it1.next());

}

System.out.println("Document deleted successfully"); col.deleteOne(Filters.eq("id", 101));
System.out.println("Document Retrieve"); FindIterable<Document> iterDoc2 = col.find(); Iterator
it2 = iterDoc2.iterator();
while (it2.hasNext())

{

System.out.println(it2.next());

}

}

}
```

Output:

```
-----
] Building java-mongodb 1.0-SNAPSHOT
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] --- exec-maven-plugin:1.2.1:exec (default-cli) @ java-mongo-db ---
Sep 21, 2019 12:02:29 PM com.mongodb.diagnostics.logging.JULLogger log
INFO: Cluster created with settings {hosts=[localhost:27017], mode=SINGLE, requiredClusterSize=1}
Connected to the database successfully
Sep 21, 2019 12:02:29 PM com.mongodb.diagnostics.logging.JULLogger log
INFO: No server chosen by WritableServerSelector from cluster description ClusterDescription{
Sep 21, 2019 12:02:29 PM com.mongodb.diagnostics.logging.JULLogger log
INFO: Opened connection [connectionId{localValue:1, serverValue:12}] to localhost:27017
Sep 21, 2019 12:02:29 PM com.mongodb.diagnostics.logging.JULLogger log
INFO: Monitor thread successfully connected to server with description ServerDescription{
Sep 21, 2019 12:02:29 PM com.mongodb.diagnostics.logging.JULLogger log
INFO: Opened connection [connectionId{localValue:2, serverValue:13}] to localhost:27017
Collection created successfully
Collection record selected successfully
Document inserted successfully
Document Retrieve successfully
Document({_id=5d85c3fdc2a4f7152046e273, id=101, name=ABC, class=TYIT})
Document update successfully
Document Retrieve
Document({_id=5d85c3fdc2a4f7152046e273, id=101, name=AAA, class=TYIT})
Document deleted successfully
- Document Retrieve
-----
BUILD SUCCESS
-----
```