



Spring Data MongoDB : Delete document

By mkyong (<http://www.mkyong.com/author/mkyong/>) | May 19, 2011 | Updated : April 8, 2013 | Viewed : 20,873 times +65 pv/w

In Spring data for MongoDB, you can use `remove()` and `findAndRemove()` to delete documents from MongoDB.

1. `remove()` – delete single or multiple documents.
2. `findAndRemove()` – delete single document, and returns the deleted document.

Common Mistake

Don't use `findAndRemove()` to perform a batch delete (remove multiple documents), only the first document that matches the query will be removed. Refer query4 below:

1. Delete document example

See a full example to show the use of `remove()` and `findAndRemove()`.

```
package com.mkyong.core;

import java.util.ArrayList;
import java.util.List;

import org.springframework.context.ApplicationContext;
import org.springframework.context.annotation.AnnotationConfigApplicationContext;
import org.springframework.data.mongodb.core.MongoOperations;
import org.springframework.data.mongodb.core.query.Criteria;
import org.springframework.data.mongodb.core.query.Query;

import com.mkyong.config.SpringMongoConfig;
import com.mkyong.model.User;

/**
 * Delete example
 *
 * @author mkyong
 *
 */

public class DeleteApp {

    public static void main(String[] args) {

        ApplicationContext ctx =
            new AnnotationConfigApplicationContext(SpringMongoConfig.class);
        MongoOperations mongoOperation =
            (MongoOperations) ctx.getBean("mongoTemplate");

        // insert 6 users for testing
        List<User> users = new ArrayList<User>();

        User user1 = new User("1001", "ant", 10);
        User user2 = new User("1002", "bird", 20);
        User user3 = new User("1003", "cat", 30);
        User user4 = new User("1004", "dog", 40);
        User user5 = new User("1005", "elephant", 50);
        User user6 = new User("1006", "frog", 60);
        users.add(user1);
        users.add(user2);
        users.add(user3);
        users.add(user4);
        users.add(user5);
        users.add(user6);
        mongoOperation.insert(users, User.class);

        Query query1 = new Query();
        query1.addCriteria(Criteria.where("name").exists(true)
            .orOperator(
                Criteria.where("name").is("frog"),
                Criteria.where("name").is("dog")
            ));
        mongoOperation.remove(query1, User.class);

        Query query2 = new Query();
        query2.addCriteria(Criteria.where("name").is("bird"));
        User userTest2 = mongoOperation.findOne(query2, User.class);
        mongoOperation.remove(userTest2);

        // The first document that matches the query is returned and also
        // removed from the collection in the database.
        Query query3 = new Query();
        query3.addCriteria(Criteria.where("name").is("ant"));
        User userTest3 = mongoOperation.findAndRemove(query3, User.class);
        System.out.println("Deleted document : " + userTest3);

        // either cat or elephant is deleted only,
        // common mistake, don't use for batch delete.
        /*
        Query query4 = new Query();
        query4.addCriteria(Criteria.where("name").exists(true)
            .orOperator(
                Criteria.where("name").is("cat"),
                Criteria.where("name").is("elephant")
            )
        );
        mongoOperation.remove(query4, User.class);
        */
    }
}
```

```

    );
    mongoOperation.findAndRemove(query4, User.class);
    System.out.println("Deleted document : " + userTest4);
    */

    System.out.println("\nAll users : ");
    List<User> allUsers = mongoOperation.findAll(User.class);
    for (User user : allUsers) {
        System.out.println(user);
    }

    mongoOperation.dropCollection(User.class);

}

}

```

Output

Deleted document : User [id=5162e0153004c3cb0a907370, ic=1001, name=ant, age=10]

All users :

User [id=5162e0153004c3cb0a907372, ic=1003, name=cat, age=30]

User [id=5162e0153004c3cb0a907374, ic=1005, name=elephant, age=50]



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Download it – SpringMongoDB-Delete-Example.zip (<http://www.mkyong.com/wp-content/uploads/2011/05/SpringMongoDB-Delete-Example.zip>) (24 KB)



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References

1. Saving, Updating, and Removing Documents from MongoDB (<http://static.springsource.org/spring-data/mongodb/docs/current/reference/html/mongo.core.html#mongo-template.save-update-remove>)
2. Java MongoDB delete example/ (<http://www.mkyong.com/mongodb/java-mongodb-delete-document/>)

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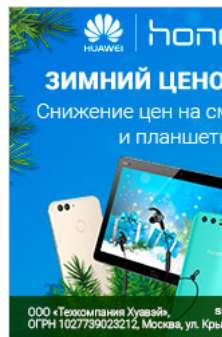


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