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Java MongoDB Tutorial

By mkyong (<http://www.mkyong.com/author/mkyong/>) | May 19, 2011 | Updated : May 15, 2017 | Viewed : 532,057 times +584 pv/w

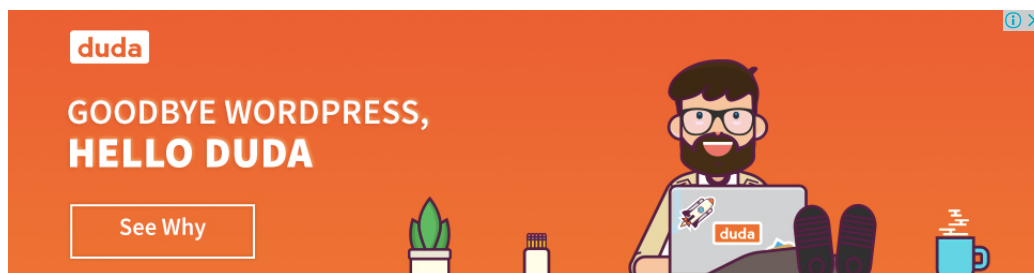
The following Java / Spring Data MongoDB tutorials and examples are tested with :

1. MongoDB 2.2.3
2. Java-MongoDB-Driver 2.11.0
3. Spring-Data-MongoDB 1.2.0.RELEASE

1. MongoDB Core Examples

MongoDB installation, configuration, connect, query and backup.

- Install MongoDB on Windows (<http://www.mkyong.com/mongodb/how-to-install-mongodb-on-windows/>)
How to install MongoDB on Windows.
- Install MongoDB on Ubuntu (<http://www.mkyong.com/mongodb/how-to-install-mongodb-on-ubuntu/>)
How to install MongoDB on Ubuntu.
- Install MongoDB on Mac OS X (<http://www.mkyong.com/mongodb/how-to-install-mongodb-on-mac-os-x/>)
How to install MongoDB on Mac OS X.
- MongoDB Hello World Example (<http://www.mkyong.com/mongodb/mongodb-hello-world-example/>)
How to do CRUD and indexing in MongoDB.
- MongoDB authentication example (<http://www.mkyong.com/mongodb/mongodb-authentication-example/>)
Start MongoDB in secure mode, authentication is required.
- MongoDB import and export example (<http://www.mkyong.com/mongodb/mongodb-import-and-export-example/>)
Backup with mongoexport, restore with mongoimport in MongoDB.



2. Java MongoDB Examples

Java MongoDB driver APIs examples to perform insert, update, query and delete documents from MongoDB.

- Java MongoDB hello world example (<http://www.mkyong.com/mongodb/java-mongodb-hello-world-example/>)
Classic hello world example to show you how to use Java MongoDB driver APIs to perform CRUD in MongoDB.
- Java MongoDB : Authentication Example (<http://www.mkyong.com/mongodb/java-authentication-access-to-mongodb/>)
Example to perform authentication access to MongoDB.
- Java MongoDB : Insert a document (<http://www.mkyong.com/mongodb/java-mongodb-insert-a-document/>)
4 ways to insert JSON data into MongoDB.
- Java MongoDB : Update document (<http://www.mkyong.com/mongodb/java-mongodb-update-document/>)
Example to use collection.update() to update an existing document
- Java MongoDB : Query document (<http://www.mkyong.com/mongodb/java-mongodb-query-document/>)
Example to use collection.find() to get / query document from collection.

- Java MongoDB : Delete document (<http://www.mkyong.com/mongodb/java-mongodb-delete-document/>)
Example to use `collection.remove()` to delete documents from collection.
- Java MongoDB : Save image example (<http://www.mkyong.com/mongodb/java-mongodb-save-image-example/>)
Use GridFS APIs to save binary file into MongoDB.

3. Spring Data MongoDB Examples

Spring Data for MongoDB examples to perform insert, update, query and delete documents from MongoDB.

- Spring Data MongoDB hello world example (<http://www.mkyong.com/mongodb/spring-data-mongodb-hello-world-example/>)
Configure (both XML and annotation) and perform CRUD operations with “Spring Data for MongoDB” framework.
- Spring Data MongoDB : Insert document (<http://www.mkyong.com/mongodb/spring-data-mongodb-insert-document/>)
Example to use Spring data `save()` and `insert()` to save domain object into MongoDB database.
- Spring Data MongoDB : Update document (<http://www.mkyong.com/mongodb/spring-data-mongodb-update-document/>)
Example to use Spring data `save()`, `updateFirst()` and `updateMulti()` to update existing domain object from MongoDB database.
- Spring Data MongoDB : Query document (<http://www.mkyong.com/mongodb/spring-data-mongodb-query-document/>)
Example to use Spring data `findOne()`, `find()` and `getCollection()` to get / query documents from MongoDB.
- Spring Data MongoDB : Delete document (<http://www.mkyong.com/mongodb/spring-data-mongodb-delete-document/>)
Example to remove() and `findAndRemove()` to delete documents from MongoDB.
- Spring Data MongoDB : Save binary file, GridFS example (<http://www.mkyong.com/mongodb/spring-data-mongodb-save-binary-file-gridfs-example/>)
Use GridFS in Spring Data MongoDB, to save the binary file in MongoDB.
- Spring Data MongoDB – Auto Sequence ID Example (<http://www.mkyong.com/mongodb/spring-data-mongodb-auto-sequence-id-example/>)
How to create an auto increase sequence id.

4. MongoDB FAQs

Some common questions and answers in MongoDB.

- Repair a crashed MongoDB server (<http://www.mkyong.com/mongodb/old-lock-file-datadbmongodb-lock-probably-means-unclean-shutdown/>)
- Couldn't Open /Data/Db/Yourdb.Ns Errno:13 Permission Denied (<http://www.mkyong.com/mongodb/mongodb-couldnt-open-datadbbyourdb-ns-errno13-permission-denied/>)
- Java MongoDB : Convert JSON data toDBObject (<http://www.mkyong.com/mongodb/java-mongodb-convert-json-data-to-dboject/>)
- Java MongoDB : Get collection from database (<http://www.mkyong.com/mongodb/java-mongodb-get-collection-from-database/>)
- Spring Data MongoDB Remove _class Column (http://www.mkyong.com/mongodb/spring-data-mongodb-remove-_class-column/)

References

- MongoDB official site (<http://www.mongodb.org>)
- Java MongoDB official tutorials (<http://www.mongodb.org/display/DOCS/Java+Tutorial>)
- Java development with MongoDB (<http://www.slideshare.net/scotthernandez/mongo-seattle-java-development>)
- Spring data for MongoDB (<http://www.springsource.org/spring-data/mongodb>)
- Spring data for MongoDB documentation (<http://static.springsource.org/spring-data/data-document/docs/1.0.0.M2/reference/html/#reference>)
- Morphia for MongoDB tutorial (<http://code.google.com/p/morphia/>)

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DO YOU REALLY KNOW YOUR MOBILES?

How many times does the average person unlock their phone a day?

▼


A 20

B 110

C 55

D 201

15





About the Author



mkyong

Founder of Mkyong.com (<http://mkyong.com>), love Java and open source stuff. Follow him on Twitter (<https://twitter.com/mkyong>), or befriend him on Facebook (<http://www.facebook.com/java.tutorial>) or Google Plus (<https://plus.google.com/110948163568945735692?rel=author>). If you like my tutorials, consider make a donation to these charities (<http://www.mkyong.com/blog/donate-to-charity/>).

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Dhyandra Singh

hello Mkyong, currently i am using Embedded document design in mongodb. and i want to use it with spring data how can i do that

Guest

👍 2 👎 [REPLY](#)

🕒 2 years 2 months ago



Me

It was very helpful!
Thanks!! :)

Guest

👍 0 👎 [REPLY](#)

🕒 17 days 8 hours ago



Carol

Thanks for this complete tutorial

Guest

👍 0 👎 [REPLY](#)

🕒 1 month 20 days ago



Snehal

I am working on java application using mongo, I want to check if there is any other option to remove documents from collection after some time period... I checked createIndex option for implementing TTL .. but it needs timestamp column to be present in collection, is there any other way to implement TTL with timestamp column and createIndex option ?

Guest

👍 0 👎 [REPLY](#)

🕒 4 months 27 days ago



Irfan

Guest

from database related to that name.

I want to create that in java with database MongoDB

Hello Mkyong!

I want to build a search panel, in which I will put name and it will show me all data



🕒 10 months 21 days ago



Rathinavel

Guest

Hello Mkyong, Is there any way to use multi update in same array object using java. { "_id" : ObjectId("58859d758c0f1c0c385a2f42"), "medications" : [{ "id" : 23.0, "name" : "A", "type" : "B" }, { "id" : 41.0, "name" : "C", "type" : "D" }, { "id" : 41.0, "name" : "C", "type" : "D" }] } db.tutorial.update({ "medications.id": 41.0 }, { "\$set": { "medications.\$.name": "Test" } }, { "multi": true }) above query is updating only one element in array please help me soon.



🕒 11 months 14 days ago



Sameer Bhatia

Guest

Can you please share an example with MondoDB and Hibernate ?



🕒 1 year 7 months ago



rew

Guest

I have this query in JS arrStrudent = db.students.aggregate([{\$project:{scores: {\$filter: {input: "\$scores",as: "item",cond: { \$eq: ["\$\$item.type", "homework"]}}}},{\$unwind: "\$scores"},{\$sort : { _id : 1, scores: 1 } },{\$project : { "scores.score" :1 } }]);null; var tmpId = -1; while (arrStrudent.hasNext()) {v = arrStrudent.next();if (v._id != tmpId) {print(v._id + "==" + v.scores.score);tmpId = v._id;db.students.update({ _id : v._id},{ \$pull: { scores: { score : v.scores.score } } })} } arrStrudent.close(); this is to remove lowest score within the scores array of student collections. ===== Now I want do same in Java, can you help me with aggregate query ? I wrote something like this, and this... Read more »



🕒 1 year 9 months ago



hari

Guest

Hello please help me to learn java play framework from scratch



🕒 2 years 10 months ago



Alex

Guest

"Auto Sequence ID Example" links to "Hello World example" and vice versa..



🕒 3 years 8 months ago



tank

Guest

Spring Data MongoDB hello world example wrong link



🕒 3 years 9 months ago



mrugesh

Guest

hello, right now i am doing research on mongodb's auto sharding proces..i can run simple connection of mongodb through java code..but i cant find java code for sharding process..so can u please send me that code..

thanks for advance..



🕒 3 years 10 months ago



Om Prakash Shakya

Excellent stuffs regarding mongodb. Try mongodb commands online <http://www.domongodb.com> (<http://www.domongodb.com>)

Guest



3 years 11 months ago



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(<http://brunotutorials.wordpress.com/2013/09/15/mongodb-modelo-de-dados-orientado-a-documentos-nosql-introducao/>)

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4 years 3 months ago



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(<http://android.programmerguru.com/>)

You can start learning Android programming from scratch through this blog – <http://android.programmerguru.com> (<http://android.programmerguru.com>).
Blog is targetted for Freshers or novice programmers who want to begin learning Android application development.



4 years 3 months ago



nirmal

Some more examples

http://www.pretechsol.com/p/nosql_20.html#.UeZpTRnZhaE (http://www.pretechsol.com/p/nosql_20.html#.UeZpTRnZhaE)



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6 years 3 months ago





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