Java MongoDB : Query document
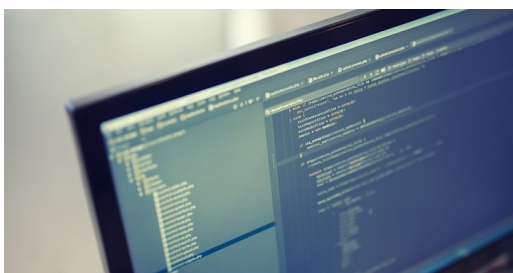
By mkyong (http://www.mkyong.com/author/mkyong/) | May 10, 2011 | Updated : April 2, 2013 | Viewed : 230,642 times +797 pv/w

In this tutorial, we show you few common ways to get or query document from collection.

Test Data

Insert 5 dummy documents for testing.

```
{ "_id" : { "$oid" : "id"} , "number" : 1 , "name" : "mkyong-1"}
{ "_id" : { "$oid" : "id"} , "number" : 2 , "name" : "mkyong-2"}
{ "_id" : { "$oid" : "id"} , "number" : 3 , "name" : "mkyong-3"}
{ "_id" : { "$oid" : "id"} , "number" : 4 , "name" : "mkyong-4"}
{ "_id" : { "$oid" : "id"} , "number" : 5 , "name" : "mkyong-5"}
```

1. Find() examples

1.1 Get first matched document only.

```
DBObject doc = collection.findOne();
System.out.println(dbObject);
```

Output

```
{ "_id" : { "$oid" : "id"} , "number" : 1 , "name" : "mkyong-1"}
```

1.2 Get all matched documents.

```
DBCursor cursor = collection.find();
while(cursor.hasNext()) {
    System.out.println(cursor.next());
}
```

Output

```
{ "_id" : { "$oid" : "id"} , "number" : 1 , "name" : "mkyong-1"}
{ "_id" : { "$oid" : "id"} , "number" : 2 , "name" : "mkyong-2"}
{ "_id" : { "$oid" : "id"} , "number" : 3 , "name" : "mkyong-3"}
{ "_id" : { "$oid" : "id"} , "number" : 4 , "name" : "mkyong-4"}
{ "_id" : { "$oid" : "id"} , "number" : 5 , "name" : "mkyong-5"}
```

1.3 Get single field from matched document.

```
BasicDBObject allQuery = new BasicDBObject();
BasicDBObject fields = new BasicDBObject();
fields.put("name", 1);

DBCursor cursor = collection.find(allQuery, fields);
while (cursor.hasNext()) {
    System.out.println(cursor.next());
}
```

Output

```
{ "_id" : { "$oid" : "id"} , "name" : "mkyong-1"}
{ "_id" : { "$oid" : "id"} , "name" : "mkyong-2"}
{ "_id" : { "$oid" : "id"} , "name" : "mkyong-3"}
{ "_id" : { "$oid" : "id"} , "name" : "mkyong-4"}
{ "_id" : { "$oid" : "id"} , "name" : "mkyong-5"}
```

2. Find() and Comparison

2.1 Get all documents where `number = 5`.

```
BasicDBObject whereQuery = new BasicDBObject();
whereQuery.put("number", 5);
DBCursor cursor = collection.find(whereQuery);
while(cursor.hasNext()) {
    System.out.println(cursor.next());
}
```

Output

```
{ "_id" : { "$oid" : "id"} , "number" : 5 , "name" : "mkyong-5"}
```

2.2 `$in` example – Get documents where `number in 2, 4 and 5`.

```
BasicDBObject inQuery = new BasicDBObject();
List<Integer> list = new ArrayList<Integer>();
list.add(2);
list.add(4);
list.add(5);
inQuery.put("number", new BasicDBObject("$in", list));
DBCursor cursor = collection.find(inQuery);
while(cursor.hasNext()) {
    System.out.println(cursor.next());
}
```

Output

```
{ "_id" : { "$oid" : "id"} , "number" : 2 , "name" : "mkyong-2"}
{ "_id" : { "$oid" : "id"} , "number" : 4 , "name" : "mkyong-4"}
{ "_id" : { "$oid" : "id"} , "number" : 5 , "name" : "mkyong-5"}
```

2.3 `$gt $lt` example – Get documents where `5 > number > 2` .

```
BasicDBObject gtQuery = new BasicDBObject();
gtQuery.put("number", new BasicDBObject("$gt", 2).append("$lt", 5));
DBCursor cursor = collection.find(gtQuery);
while(cursor.hasNext()) {
    System.out.println(cursor.next());
}
```

Output

```
{ "_id" : { "$oid" : "id"} , "number" : 3 , "name" : "mkyong-3"}
{ "_id" : { "$oid" : "id"} , "number" : 4 , "name" : "mkyong-4"}
```

2.4 `$ne` example – Get documents where `number != 4` .

```
BasicDBObject neQuery = new BasicDBObject();
neQuery.put("number", new BasicDBObject("$ne", 4));
DBCursor cursor = collection.find(neQuery);
while(cursor.hasNext()) {
    System.out.println(cursor.next());
}
```

Output

```
{ "_id" : { "$oid" : "id"} , "number" : 1 , "name" : "mkyong-1"}
{ "_id" : { "$oid" : "id"} , "number" : 2 , "name" : "mkyong-2"}
{ "_id" : { "$oid" : "id"} , "number" : 3 , "name" : "mkyong-3"}
{ "_id" : { "$oid" : "id"} , "number" : 5 , "name" : "mkyong-5"}
```

3. find() and Logical

3.1 `$and` example – get documents where `number = 2 and name = 'mkyong-2'`.

```
BasicDBObject andQuery = new BasicDBObject();
List<BasicDBObject> obj = new ArrayList<BasicDBObject>();
obj.add(new BasicDBObject("number", 2));
obj.add(new BasicDBObject("name", "mkyong-2"));
andQuery.put("$and", obj);

System.out.println(andQuery.toString());

DBCursor cursor = collection.find(andQuery);
while (cursor.hasNext()) {
    System.out.println(cursor.next());
}
```

Output

```
{ "$and" : [ { "number" : 2} , { "name" : "mkyong-2"}]}

{ "_id" : { "$oid" : "id"} , "number" : 2 , "name" : "mkyong-2"}
```

4. find() and Regex

Find document with regular expression pattern.

4.1 `$regex` example – get documents where `name like pattern 'Mky.*-[1-3]', case insensitive`

```
BasicDBObject regexQuery = new BasicDBObject();
regexQuery.put("name",
    new BasicDBObject("$regex", "Mky.*-[1-3]")
    .append("$options", "i"));

System.out.println(regexQuery.toString());

DBCursor cursor = collection.find(regexQuery);
while (cursor.hasNext()) {
    System.out.println(cursor.next());
}
```

Output

```
{ "name" : { "$regex" : "Mky.*-[1-3]" , "$options" : "i"}}

{ "_id" : { "$oid" : "515ad59e3004c89329c7b259"} , "number" : 1 , "name" : "mkyong-1"}
{ "_id" : { "$oid" : "515ad59e3004c89329c7b25a"} , "number" : 2 , "name" : "mkyong-2"}
{ "_id" : { "$oid" : "515ad59e3004c89329c7b25b"} , "number" : 3 , "name" : "mkyong-3"}
```

There are more...
Read this MongoDB operator documentation (http://docs.mongodb.org/manual/reference/operators/) for complete set of query operators supported in MongoDB.

5. Full Example

```
package com.mkyong.core;

import java.net.UnknownHostException;
import java.util.ArrayList;
import java.util.Calendar;
import java.util.List;

import com.mongodb.BasicDBObject;
import com.mongodb.DB;
import com.mongodb.DBCollection;
import com.mongodb.DBCursor;
import com.mongodb.DBObject;
import com.mongodb.Mongo;
import com.mongodb.MongoException;

/**
 * Java MongoDB : Query document
 *
 * @author mkyong
 *
 */
public class QueryApp {

    public static void insertDummyDocuments(DBCollection collection) {

        List<DBObject> list = new ArrayList<DBObject>();

        Calendar cal = Calendar.getInstance();

        for (int i = 1; i <= 5; i++) {

            BasicDBObject data = new BasicDBObject();
            data.append("number", i);
            data.append("name", "mkyong-" + i);
            // data.append("date", cal.getTime());

            // +1 day
            cal.add(Calendar.DATE, 1);

            list.add(data);

        }

        collection.insert(list);

    }

    public static void main(String[] args) {

    try {

      Mongo mongo = new Mongo("localhost", 27017);
      DB db = mongo.getDB("yourdb");

      // get a single collection
      DBCollection collection = db.getCollection("dummyColl");

      insertDummyDocuments(collection);

      System.out.println("1. Find first matched document");
      DBObject dbObject = collection.findOne();
      System.out.println(dbObject);

      System.out.println("\n1. Find all matched documents");
      DBCursor cursor = collection.find();
      while (cursor.hasNext()) {
        System.out.println(cursor.next());
      }

      System.out.println("\n1. Get 'name' field only");
      BasicDBObject allQuery = new BasicDBObject();
      BasicDBObject fields = new BasicDBObject();
      fields.put("name", 1);

      DBCursor cursor2 = collection.find(allQuery, fields);
      while (cursor2.hasNext()) {
```

```java
      System.out.println(cursor2.next());
    }

    System.out.println("\n2. Find where number = 5");
    BasicDBObject whereQuery = new BasicDBObject();
    whereQuery.put("number", 5);
    DBCursor cursor3 = collection.find(whereQuery);
    while (cursor3.hasNext()) {
      System.out.println(cursor3.next());
    }

    System.out.println("\n2. Find where number in 2,4 and 5");
    BasicDBObject inQuery = new BasicDBObject();
    List<Integer> list = new ArrayList<Integer>();
    list.add(2);
    list.add(4);
    list.add(5);
    inQuery.put("number", new BasicDBObject("$in", list));
    DBCursor cursor4 = collection.find(inQuery);
    while (cursor4.hasNext()) {
      System.out.println(cursor4.next());
    }

    System.out.println("\n2. Find where 5 > number > 2");
    BasicDBObject gtQuery = new BasicDBObject();
    gtQuery.put("number", new BasicDBObject("$gt", 2).append("$lt", 5));
    DBCursor cursor5 = collection.find(gtQuery);
    while (cursor5.hasNext()) {
      System.out.println(cursor5.next());
    }

    System.out.println("\n2. Find where number != 4");
    BasicDBObject neQuery = new BasicDBObject();
    neQuery.put("number", new BasicDBObject("$ne", 4));
    DBCursor cursor6 = collection.find(neQuery);
    while (cursor6.hasNext()) {
      System.out.println(cursor6.next());
    }

    System.out.println("\n3. Find when number = 2 and name = 'mkyong-2' example");
    BasicDBObject andQuery = new BasicDBObject();

    List<BasicDBObject> obj = new ArrayList<BasicDBObject>();
    obj.add(new BasicDBObject("number", 2));
    obj.add(new BasicDBObject("name", "mkyong-2"));
    andQuery.put("$and", obj);

    System.out.println(andQuery.toString());

    DBCursor cursor7 = collection.find(andQuery);
    while (cursor7.hasNext()) {
      System.out.println(cursor7.next());
    }

    System.out.println("\n4. Find where name = 'Mky.*-[1-3]', case sensitive example");
    BasicDBObject regexQuery = new BasicDBObject();
    regexQuery.put("name",
      new BasicDBObject("$regex", "Mky.*-[1-3]")
              .append("$options", "i"));

    System.out.println(regexQuery.toString());

    DBCursor cursor8 = collection.find(regexQuery);
    while (cursor8.hasNext()) {
      System.out.println(cursor8.next());
    }

    collection.drop();

    System.out.println("Done");

  } catch (UnknownHostException e) {
      e.printStackTrace();
  } catch (MongoException e) {
      e.printStackTrace();
  }
```

```
        }
    }
```

Done.

References

1. Query, Update, and Projection Operators Quick Reference (http://docs.mongodb.org/manual/reference/operators/)

Tags :   mongodb (http://www.mkyong.com/tag/mongodb/)   query (http://www.mkyong.com/tag/query/)

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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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Sankrita

Guest

I am new to mongo db. I am learning newly. Your articles are very very resourceful. I want to retrieve the data alone from the db. Example : number:1 name: mkyong-1 number: 2 name: mkyong-2 number:3 name: mkyong-3 number: 5 name: mkyong-5 instead of : { "_id" : { "$oid" : "id"} , "number" : 1 , "name" : "mkyong-1"} { "_id" : { "$oid" : "id"} , "number" : 2 , "name" : "mkyong-2"} { "_id" : { "$oid" : "id"} , "number" : 3 , "name" : "mkyong-3"} { "_id" : { "$oid" : "id"} , "number" :... Read more »

👍 1 👎 ↩ REPLY   ⏱ 2 years 4 months ago

zubair (http://programmershelper)

Guest

hi its great work How can find the document in MongoDB http://programmershelper.com/mongodb-select-query/ (http://programmershelper.com/mongodb-select-query/)

👍 0 👎 ↩ REPLY   ⏱ 2 months 29 days ago

Ahmed Awad

Guest

Is it possible to query in mongodb using regular expressions. but, those regular expressions should work on the key field rather than the value field: example: Board Collection: "id" :objectId("57d5dsg55sad"), "pin0":{} , "pin1":{}, "pin2":{}. now is it possible to query the keys pin0,pin1 using some sort of regular expression? ex. "$regex,pin.*-[1-100]". (I'd like to retrieve all the pins but it's either done in a for loop which I wouldn't prefer or just use regular expressions in the query.put example. query.put("$regex,pin.*-[1-100]", "red")

👍 0 👎 ↩ REPLY   ⏱ 1 year 8 months ago

Batuhan

Guest

very Useful.. Thank you the article.

👍 0 👎 ↩ REPLY   ⏱ 1 year 10 months ago

Autobots

Guest

I am having a doubt in my code. Every one has tried using this. basicobj.put("name","autobots").
and then colc.insert(basicobj). But i wanna do like this.

basicobj.put("1",obj);
where obj is my class obj and i wanna insert it . could u help me

👍 0 👎 ↩ REPLY   ⏱ 2 years 6 months ago

Mamat

Guest

Hi ,
I have question regarding mongo clustering
How to connect if mongo have multiple ip and how to determine which one is primary ip to insert and update value

👍 0 👎 ↩ REPLY   ⏱ 2 years 6 months ago

Gaurav

Guest

Is there any way to iterate over database and delete some unused collection of choice or iterating over a array containing collection names and dropping them one by one.

👍 0 👎 ↩ REPLY   ⏱ 2 years 8 months ago

Qibra

Guest

hello;
if i need to select aquery just like field1="sth1″ and field2="sth2″
where its retreive one document only without using DBCurser

how i could do that ?
please help me :)

👍 0 👎 | ↩ REPLY   ⊘ 2 years 9 months ago

saran

Can we find all the fields of all the documents in a collection along with their datatypes……….

Guest

👍 0 👎 | ↩ REPLY   ⊘ 3 years 2 months ago

Sanjeeve

hi Mkyong, i want to find count of embedding documents. Anyone please help me.

Guest

👍 0 👎 | ↩ REPLY   ⊘ 3 years 4 months ago

Madi

I have a db that list objects with ids, however I want to fetch a field named lets say a url but I want to get all the urls and also not just any
url I want to get the ones that include some partial text and filter using that text and and give me all of those urls. I can't seem to get it to
do that.

eg:

DB db= mongo.getDB(thedatabase);

DBCollection coll= db.getCollection(thecollection);

whereQuery.put("Url", "http://www.bhjbdvuis");

DBCursor cursor= coll.find(whereQuery);

while (cursor.hasNext())

{

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

}

👍 0 👎 | ↩ REPLY   ⊘ 3 years 10 months ago ⌃

madi

sorry forgot a piece of the code

DB db= mongo.getDB(thedatabase);

Guest

DBCollection coll= db.getCollection(thecollection);
BasicDBObject whereQuery = new BasicDBObject();
whereQuery.put("Url", "http://www.bhjbdvuis");

DBCursor cursor= coll.find(whereQuery);

while (cursor.hasNext())

{

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

}

This returns all the items in the DB

👍 0 👎 | ↩ REPLY   ⊘ 3 years 10 months ago

lenin

Is nested Or possible like below? please let me know.thank you!

db.collectiontest.find({$and:[{body:/test/} , {$or:[{ body: /gujarat/ }, {url: /gujarat/ }]}]} ,{ _id:0 }).count()

Guest

👍 0 👎 | ↩ REPLY   ⊘ 4 years 2 months ago

Ian

Guest

Thank you for this useful blog, Mkyong! Any example of using Java Date or Datetime for $lte, $gt types of query?

👍 0 👎   ↩ REPLY   ⊘ 4 years 3 months ago

Nguyen

Guest

Hi, Mkyong! I like your website!
Thank you a lot!!
I have problem! Please help me!
I have code below:
queryTitle=new BasicDBObject("title", new BasicDBObject("$regex", keySearch));
DBCursor dbcur=db.getCollection("Colection").find(queryTitle)
The dbcur return so much DBObject. How i can get DBObject like "lazy loading".
If i have a button, when i clicked, dbcur get 10 value, next click it get next 10 value.
Thank!

👍 0 👎   ↩ REPLY   ⊘ 4 years 5 months ago

Chanchal Dhande

Guest

Thanks … Great Tutorial ..

👍 0 👎   ↩ REPLY   ⊘ 4 years 6 months ago

Fredrik

Guest

Hi! Thank you for great tutorials :) But what i cant seem to figure out is how to search for a text String through all the keys. I have a Grid FSfile: { "_id" : { "$oid" : "5174f41f300452a80bf45d4c"} , "chunkSize" : 262144 , "length" : 104873 , "md5" : "337875b0e3e2debb2367838e9f097ef1" , "filename" : "test.zip" , "contentType" : null , "uploadDate" : { "$date" : "2013-04-22T08:26:07.749Z"} , "aliases" : null , "metadata" : { "filename" : "test" , : "from" : "Iceland" , "to" : "Nederland" , "tags" : ["tag1, tag2, tag3"] , "createdDate" : { "$date" : "2013-04-22T08:26:07.785Z"}}}… Read more »

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One Half

Guest

GREAT, I've read the mongo docs. Printing out the contents of a cursor list is easy. However, what no one seems to want to post about is returning cursor lists and serializing them as json.

from the docs:

```
List obj = collection.find( query ).skip( 1000 ).limit( 100 ).toArray();
```

OK great, but my method fails when I return obj as a list or try to serialize that as json for a response.

👍 0 👎   ↩ REPLY   ⊘ 4 years 10 months ago ⌃

mkyong (http://www.mkyong.com)

(http://www.mkyong.com/author/mkyong/)

Author

Loop the cursor, and play around the value and put it back to list.

👍 0 👎   ↩ REPLY   ⊘ 4 years 9 months ago

Mark Edward Sinclair

Guest

I made a simple utility function to do this, (Serialize results from a cursor into JSON) I hope it's of some use to you

```
public static String c2a(DBCursor cursor) {
        String results = "[";

        int i = 0;
        try {
                while (cursor.hasNext()) {
                        if (i != 0) results += ",";
                        results  += cursor.next();
                        ++i;
                }
        } finally {
                cursor.close();
        }
        results += "]";
        return results;
}
```

👍 0 👎 ↩ REPLY   🕐 4 years 10 months ago

maurizio cozzetto
(http://www.mauriziocozzetto.it)

Guest

If i want a single field from a record, how do i do that?

👍 0 👎 ↩ REPLY   🕐 5 years 6 months ago ⌃

mkyong (http://www.mkyong.com)
(http://www.mkyong.com/author/mkyong/)

Author

Select single field "name", see article above

```
BasicDBObject allQuery = new BasicDBObject();
BasicDBObject fields = new BasicDBObject();
fields.put("name", 1);

DBCursor cursor = collection.find(allQuery, fields);
```

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Indrajeet Latthe

Guest

what should I do?i only want to display name but it also prints id also

👍 0 👎 ↩ REPLY   🕐 1 year 10 months ago

Drashti Pandya

Guest

I'm using mongojava driver 3.0.2.If I have to get database then I have to write getDataBase() instead of getDB().Problem is I want to select "name" column value . Above code gives me error to split it in declaration.I have tried this code but doesn't show output and no error too. FindIterable iterable = db.getCollection("Restaurant").find(); iterable.forEach(new Block() { public void apply(final Document document) { System.out.println("OUTPUT IS " +document); } });

👍 0 👎 ↩ REPLY   🕐 2 years 5 months ago

Felix Devasia

Guest

This might be late for you, but I found this link useful : http://stackoverflow.com/questions/9639260/query-fields-in-a-mongodb-collection (http://stackoverflow.com/questions/9639260/query-fields-in-a-mongodb-collection)

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Java MongoDB Tutorials
(http://www.mkyong.com/tutorials/java-mongodb-tutorials/)

[…] Java MongoDB : Query document Example to use collection.find() to get / query document from collection. […]

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