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Java MongoDB : Insert a document

By mkyong (<http://www.mkyong.com/author/mkyong/>) | May 9, 2011 | Updated : March 9, 2013 | Viewed : 168,226 times +438 pv/w

In this tutorial, we show you 4 ways to insert below **JSON** data into a “**document**”, via Java MongoDB API.

Test Data

Test data in JSON format.

```
{
  "database" : "mkyongDB",
  "table" : "hosting",
  "detail" :
  {
    records : 99,
    index : "vps_index1",
    active : "true"
  }
}
```

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1. BasicDBObject example

```
BasicDBObject document = new BasicDBObject();
document.put("database", "mkyongDB");
document.put("table", "hosting");

BasicDBObject documentDetail = new BasicDBObject();
documentDetail.put("records", 99);
documentDetail.put("index", "vps_index1");
documentDetail.put("active", "true");

document.put("detail", documentDetail);

collection.insert(document);
```

**iHerb**

2. BasicDBObjectBuilder example

```
BasicDBObjectBuilder documentBuilder = BasicDBObjectBuilder.start()
    .add("database", "mkyongDB")
    .add("table", "hosting");

BasicDBObjectBuilder documentBuilderDetail = BasicDBObjectBuilder.start()
    .add("records", 99)
    .add("index", "vps_index1")
    .add("active", "true");

documentBuilder.add("detail", documentBuilderDetail.get());

collection.insert(documentBuilder.get());
```

3. Map example

```
Map<String, Object> documentMap = new HashMap<String, Object>();
documentMap.put("database", "mkyongDB");
documentMap.put("table", "hosting");

Map<String, Object> documentMapDetail = new HashMap<String, Object>();
documentMapDetail.put("records", 99);
documentMapDetail.put("index", "vps_index1");
documentMapDetail.put("active", "true");

documentMap.put("detail", documentMapDetail);

collection.insert(new BasicDBObject(documentMap));
```

4. JSON parse example

```
String json = "{ 'database' : 'mkyongDB', 'table' : 'hosting', " +
    "'detail' : { 'records' : 99, 'index' : 'vps_index1', 'active' : 'true' } }";

DBObject dbObject = (DBObject)JSON.parse(json);

collection.insert(dbObject);
```

Full example

```
package com.mkyong.core;

import java.net.UnknownHostException;
import java.util.HashMap;
import java.util.Map;
import com.mongodb.BasicDBObject;
import com.mongodb.BasicDBObjectBuilder;
import com.mongodb.DB;
import com.mongodb.DBCollection;
import com.mongodb.DBCursor;
import com.mongodb.DBObject;
import com.mongodb.Mongo;
import com.mongodb.MongoException;
import com.mongodb.util.JSON;

/**
 * Java MongoDB : Insert a Document
 *
 */
public class InsertDocumentApp {
    public static void main(String[] args) {

        try {

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

            DBCollection collection = db.getCollection("dummyColl");

            // 1. BasicDBObject example
            System.out.println("BasicDBObject example...");
            BasicDBObject document = new BasicDBObject();
            document.put("database", "mkyongDB");
            document.put("table", "hosting");

            BasicDBObject documentDetail = new BasicDBObject();
            documentDetail.put("records", 99);
            documentDetail.put("index", "vps_index1");
            documentDetail.put("active", "true");
            document.put("detail", documentDetail);

            collection.insert(document);

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

            collection.remove(new BasicDBObject());

            // 2. BasicDBObjectBuilder example
            System.out.println("BasicDBObjectBuilder example...");
            BasicDBObjectBuilder documentBuilder = BasicDBObjectBuilder.start()
                .add("database", "mkyongDB")
                .add("table", "hosting");

            BasicDBObjectBuilder documentBuilderDetail = BasicDBObjectBuilder.start()
                .add("records", "99")
                .add("index", "vps_index1")
                .add("active", "true");

            documentBuilder.add("detail", documentBuilderDetail.get());

            collection.insert(documentBuilder.get());

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

            collection.remove(new BasicDBObject());

            // 3. Map example
            System.out.println("Map example...");
            Map<String, Object> documentMap = new HashMap<String, Object>();
            documentMap.put("database", "mkyongDB");
```

```

documentMap.put("table", "hosting");

Map<String, Object> documentMapDetail = new HashMap<String, Object>();
documentMapDetail.put("records", "99");
documentMapDetail.put("index", "vps_index1");
documentMapDetail.put("active", "true");

documentMap.put("detail", documentMapDetail);

collection.insert(new BasicDBObject(documentMap));

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

collection.remove(new BasicDBObject());

// 4. JSON parse example
System.out.println("JSON parse example...");

String json = "{ 'database' : 'mkyongDB', 'table' : 'hosting', " +
    "'detail' : { 'records' : 99, 'index' : 'vps_index1', 'active' : 'true' } }";

DBObject dbObject = (DBObject)JSON.parse(json);

collection.insert(dbObject);

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

collection.remove(new BasicDBObject());

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

```

Output...

```

BasicDBObject example...
{ "_id" : { "$oid" : "4dc9ef6f237f86642d5b34bd" }, "database" : "mkyongDB" ,
"table" : "hosting" , "detail" : { "records" : "99" , "index" : "vps_index1" , "active" : "true" } }

BasicDBObjectBuilder example...
{ "_id" : { "$oid" : "4dc9ef6f237f86642d5b34be" }, "database" : "mkyongDB" ,
"table" : "hosting" , "detail" : { "records" : "99" , "index" : "vps_index1" , "active" : "true" } }

Map example...
{ "_id" : { "$oid" : "4dc9ef6f237f86642d5b34bf" }, "detail" : { "index" : "vps_index1" ,
"active" : "true" , "records" : "99" }, "table" : "hosting" , "database" : "mkyongDB" }

JSON parse example...
{ "_id" : { "$oid" : "4dc9ef6f237f86642d5b34c0" }, "database" : "mkyongDB" ,
"table" : "hosting" , "detail" : { "records" : 199 , "index" : "vps_index1" , "active" : "true" } }

```

What is “_id” ?

The `_id` is added by MongoDB automatically, for identity purpose. From MongoDB document, it said, all element names that start with “_”, “/” and “\$” are reserved for internal use.

References

1. BasicDBObject Java Doc (<http://api.mongodb.org/java/2.10.1/com/mongodb/BasicDBObject.html>)
2. BasicDBObjectBuilder Java Doc (<http://api.mongodb.org/java/2.10.1/com/mongodb/BasicDBObjectBuilder.html>)

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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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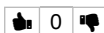
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zubair ([http://programmershelper](http://programmershelper.com))

hi its good work I am also working on this topic MongoDB insert a document<http://programmershelper.com/mongodb-insert-document-guideline>

Guest



0



REPLY

3 months 5 days ago



Guest

Michalis Argyriou

Please consider using Document instead of DBObject (the latter is deprecated).
See also this link: <http://mongodb.github.io/mongo-java-driver/3.0/bson/documents/>

👍 0 🗨️ [REPLY](#)

🕒 2 years 4 months ago



Guest

rashmi

Hey! What if I dont want to display '_id' but rest of the collection?

👍 0 🗨️ [REPLY](#)

🕒 2 years 9 months ago



Guest

Will

MongoDB rocks. I installed it using the guide at <https://www.rosehosting.com/blog/install-mongodb-on-a-centos-vps/> (<https://www.rosehosting.com/blog/install-mongodb-on-a-centos-vps/>) and I am learning it at the moment. Thanks for your Java and MongoDB tutorials.

👍 0 🗨️ [REPLY](#)

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Guest

Ananth

Hi, I wanted to insert a collection of object into MongoDB using java. Could you please let me know the steps

👍 0 🗨️ [REPLY](#)

🕒 3 years 2 months ago



Guest

Everett

Your examples are always great!!!

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🕒 3 years 2 months ago



Guest

Tomas Echeverri

POJO Mapping example left (Frameworks)

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Guest

Pham Nghiep

What is the fastest ways to insert? Thanks (y)

👍 0 🗨️ [REPLY](#)

🕒 3 years 6 months ago



Guest

Bry24

I think it should be noted that in Example 3 the HashMap implementation could change at some point in the future. This would require updating every old HashMap in the table or just sticking with the old one. Problem is some are not aware and will freak that their table is corrupted when it is fine. Good Job with the examples.

👍 0 🗨️ [REPLY](#)

🕒 3 years 10 months ago



Guest

Alex Anderson

I am in love with mongo now.
Thanks sir :)

👍 0 🗨️ [REPLY](#)

🕒 4 years 7 months ago



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[...] Refer to this Java MongoDB insert example. [...]



4 years 9 months ago



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5 years 6 days ago



armen

Bravo!!!!

Guest



5 years 1 month ago



Java MongoDB Tutorial

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[...] Java MongoDB : Insert a document 4 ways to insert JSON data into a mongoDB. [...]



5 years 3 months ago



amine

i want insert in mongodb via http but doesn't work :(plz help

```
public class addProduct extends Activity{
    TextView codbarText, typeText, produitText, avisText, descriptionText, dateText;
    String codbarText_, typeText_, produitText_, avisText_, descriptionText_, dateText_;
    public void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.addproduct);
        codbarText=(TextView) findViewById(R.id.editText1);
        typeText=(TextView) findViewById(R.id.editText2);
        produitText=(TextView) findViewById(R.id.editText3);
        avisText=(TextView) findViewById(R.id.editText4);
        descriptionText=(TextView) findViewById(R.id.editText5);
        dateText=(TextView) findViewById(R.id.editText6);
        Button btEnreg = (Button) this.findViewById(R.id.buttonenregistrer);
        btEnreg.setOnClickListener(btEnregListener);
        Intent thisIntent = getIntent();
        String contents=thisIntent.getExtras().getString("contents");
        codbarText.setText(contents);
    }
    private Button.OnClickListener btEnregListener = new Button.OnClickListener() {
        public void onClick(View v) {
            codbarText_ = codbarText.getText().toString();
            typeText_ = typeText.getText().toString();
            produitText_ = produitText.getText().toString();
            avisText_ = avisText.getText().toString();
            descriptionText_ = descriptionText.getText().toString();
            dateText_ = dateText.getText().toString();
            insert_product(codbarText_, typeText_, produitText_, avisText_, descriptionText_, dateText_);
            Toast.makeText(addProduct.this, "Produit crée avec succès", Toast.LENGTH_SHORT).show();
            finish();
        }
    };
    public void... Read more »
```



6 years 1 month ago ^



Egle

Hello mkyong,

Guest

I was wondering what kind of jar I need for java to recognise "mongo" keyword in imports...



10 months 27 days ago





Mkyong
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