

## Java 调用 groovy 脚本文件，groovy 访问 MongoDB

原创

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groovy 访问 MongoDB 示例：

shell.groovy

[java]

```
1. package db
2.
3. import com.gmongo.GMongoClient
4. import com.mongodb.BasicDBObject
5. import com.mongodb.MongoCredential
6. import com.mongodb.ServerAddress
7.
8. /**
9.  * 本地无密 mongodb 数据库连接
10. */
11. def connect() {
12.     GMongoClient client = new GMongoClient(new ServerAddress('127.0.0.1',50513))
13.     return client
14. }
15.
16. /**
17.  * SSH mongodb 数据库连接
18. */
19. def connectSSH() {
20.     //以下两行是针对包含用户名和密码配置的数据库的。
21.     MongoCredential credentials = MongoCredential.createMongoCRCredential('root','xy', 'pass' as char[])
22.     //MongoClientOptions options = MongoClientOptions.builder().connectTimeout(1000)
23.
24.     //创建一个Client连接，如果是认证的则使用下面的这一行
25.     GMongoClient client = new GMongoClient(new ServerAddress('10.101.114.108',22), [credentials])
26.     return client
27. }
28.
29. def topics(map) {
30.
31.     def DB = connect().getDB('xy')
32.
33.     /*def s1 = map['$gte']
34.     def e1 = map['$lte']*/
35.     //查询条件
36.     BasicDBObject object = new BasicDBObject('timestamp',new BasicDBObject(map))
37.     println(object.toString())
38.
39.     println(DB.getCollection('topics').count(object))
40.
41.     //println(DB.getCollection('topics').count())
42.
43. }
44.
45. def topic_tip(map) {
46.
47.     def DB = connect().getDB('xy')
48.
49.     //查询条件
50.     BasicDBObject object1 = new BasicDBObject('$match',new BasicDBObject(map))
51.     BasicDBObject object2 = new BasicDBObject('$group',new BasicDBObject('_id',null).append('num_tutorial',new BasicDBObject('$sum','$kd_money')))
52.
53.     //聚合查询
54.     //db.getCollection('topic_tip').aggregate([{$match:{ 'timestamp' : { '$gte' : 1376065109781 , '$lte' : 1576065109781 }},{ $group : { _id : null, num
55.     m : '$kd_money' } }])
56.     println(DB.getCollection('topic_tip').aggregate(object1,object2))
57.
58. }
59.
60. def currency_log(map) {
61.
62.     def DB = connect().getDB('xy')
63.
64.     //查询条件
65.     BasicDBObject object1 = new BasicDBObject('$match',new BasicDBObject(map))
66.     BasicDBObject object2 = new BasicDBObject('$group',new BasicDBObject('_id',null).append('num_tutorial',new BasicDBObject('$sum','$kd_money')))
67.
68.     //聚合查询
```

```

68. //db.getCollection('currency_log').aggregate([{$match:{ "currency_time" : { "$gte" : 1504368000000 , "$lte" : 1504454399000}},{$group : {_id : "$
um_tutorial : {$sum : "$currency_money"}}}}])
69. println(DB.getCollection('currency_log').aggregate(object1,object2))
70.
71. }

```

## java 调用 shell.groovy 文件

```

[java]
1. package test;
2.
3. import groovy.lang.GroovyClassLoader;
4. import groovy.lang.GroovyObject;
5. import javafx.application.Application;
6. import javafx.stage.Stage;
7.
8. import java.io.File;
9. import java.text.SimpleDateFormat;
10. import java.util.Date;
11. import java.util.HashMap;
12. import java.util.Map;
13.
14. public class Shell extends Application {
15.
16.     public static void main(String[] args) {
17.         launch(args);
18.     }
19.
20.     @Override
21.     public void start(Stage primaryStage) {
22.         try {
23.
24.             GroovyClassLoader loader = new GroovyClassLoader();
25.             Class groovyClass = loader.parseClass(new File(Shell.class.getClassLoader().getResource("db/shell.groovy").getPath()));
26.             GroovyObject object = (GroovyObject) groovyClass.newInstance();
27.
28.             SimpleDateFormat format = new SimpleDateFormat("yyyy-MM-dd HH:mm:ss");
29.
30.             String[] timeStart = new String[]{"2017-08-28 00:00:00","2017-08-29 00:00:00","2017-08-30 00:00:00","2017-08-31 00:00:00"};
31.             String[] timeEnd = new String[]{"2017-08-28 23:59:59","2017-08-29 23:59:59","2017-08-30 23:59:59","2017-08-31 23:59:59"};
32.
33.             for (int i=0 ;i<7; i++) {
34.                 Date start = format.parse(timeStart[i]);
35.                 Date end = format.parse(timeEnd[i]);
36.
37.                 Map<String,Long> params = new HashMap<>();
38.                 params.put("$gte",start.getTime());
39.                 params.put("$lte",end.getTime());
40.
41.                 // topics 是 shell.groovy 中的方法名, params 是传给 topics 的参数, 执行下面语句完成 topics 方法脚本的调用
42.                 object.invokeMethod("topics",params);
43.             }
44.
45.             /*GroovyScriptEngine engine = new GroovyScriptEngine(Shell.class.getClassLoader().getResource("db").getPath());
46.             Binding binding = new Binding();
47.             binding.setVariable("language","Groovy");
48.             engine.run("studenttopicdata.groovy",binding);*/
49.
50.         } catch (Exception e) {
51.             e.printStackTrace();
52.             System.out.println("Exception e = " + e.toString());
53.         }
54.     }
55. }

```

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