How to access nested element of mongo query result using Java and R?

I am using Java and R to fetch data from my database and implement prediction. My `json` in mongodb is like:

```
{
 "Server" : [
    {
         "deviceName" : "NEWSCVMM",
         "availability" : 100,
         "osVersion" : "6.3.9600",
         "averageResponseTime" : 0.422,
         "useswapmemory" : "983040",
         "freeswapmemory" : "983040",
         "model" : "Virtual Machine",
         "numberOfCpu" : "1",
         "vendor" : "Microsoft Corporation",
         "vmList" : [ ],
         "macadd" : [ ],
         "cpuInfo" : "Intel(R) Xeon(R) CPU         X5670  @ 2.93GHz",
         "memory" : "6188596",
         "serialNo" : "00252-00000-00000-AA228",
         "cpuUtilization" : 0,
 }]

}
```
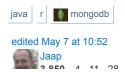
I want to access `cpuUtilization` from that json. I tried to access nested values using (.) but get result as NULL. I also tried to execute same on R shell but get result as NULL.

Here is what I have tried so far:

```
c.eval("query <- dbGetQuery(db,'   mycollection','{\"hostId\":\"0.0.0.0\",\"windowsSe
 c.eval("date <- query$runtimeMillis");
 c.eval("host_id <- query$hostId");
 c.eval("cpu <- query$Server.cpuUtilization");

 c.eval("all_data<-data.frame(cpu,date)");
 c.eval("training<- all_data");
 c.eval("rf_fit<-randomForest(cpu~date,data=training,ntree=500)");
 c.eval("new <- data.frame(date="+my_predicted_date+ ")");
 c.eval("predictions<-predict(rf_fit,newdata=new)");
 REXP memory_predictions= c.eval("predictions");
```

How do I access nested elements on either R shell or using java?

java | r | mongodb

edited May 7 at 10:52   asked May 7 at 10:01
Jaap   Vishwas
3,850   4   11   28   521   2   13

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1 Answer

Dot notation should work in Java, I have been using it for quite a while now. Check your code carefully, there might be a slight mistake somewhere.

Can you please post a part of your code here? I can then take a look and comment.

Here is what I normally do - Lets say my document is like this -

```
{_id:0, start : {x:10, y:50}, end : {x:20, y:100}}
{_id:1, start : {x:20, y:50}, end : {x:30, y:100}}
{_id:2, start : {x:30, y:50}, end : {x:40, y:100}}
```

If I want to query based on "x" value in start field, I would write something like this:

```java
MongoClient client = new MongoClient();
DB db = client.getDB("YourDBNAME");
DBCollection collection = db.getCollection("YOURCOLLECTIONNAME");
QueryBuilder builder =  QueryBuilder().start("start.x").greaterThan("20");
DBCursor cur = collection.find(builder.get());

while(cursor.hasNext())
{
  System.out.println(cursor.next());
}
```

Compare this code snippet with yours and see. You should get it working fine. Let me know if this helps or you need more help on this.

answered Jun 11 at 23:32

Deadman
60   13

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