# **MONGO DB**

# **Assignment-2**

Name: P CHARAN RAGAVENDRA Reg No: 21BCE1932

# **Questions:**

1. Find products released in the same year as "SmartTablet".

#### Code:

```
🗗 🔬 javamongoclient.java 🗵
     1 package javamongo;
     3@ import com.mongodb.client.MongoCollection;
     import com.mongodb.client.MongoCursor;
import com.mongodb.client.MongoDatabase;
import com.boon.Document;
import com.mongodb.MongoClient;
  0 9 import java.util.Arrays;
  11 public class javamongoclient {
            public static void main(String[] args) {
                  // Establish connection to MongoDB server
                 MongoClient mongoClient = new MongoClient("localhost", 27017);
System.out.println("Connected to MongoDB server successfully");
                  // Accessing the database
                 MongoDatabase database = mongoClient.getDatabase("mongodbjava");
System.out.println("Database 'mongodbjava' accessed successfully");
                  MongoCollection<Document> collection = database.getCollection("products");
                 String releaseYear = smartTablet.getString("releaseDate").substring(0, 4);
                  Document query = new Document("releaseDate", new Document("$regex", releaseYear));
                  MongoCursor<Document> cursor = collection.find(query).iterator();
                  while (cursor.hasNext()) {
  Document product = cursor.next();
  System.out.println(product.toJson());
                  cursor.close();
```

```
javamongoclient.java ×
                                                                                                                                                                                                                                                                                                                                                                                              # javamongo
   11 public class javamongoclient {
                                                                                                                                                                                                                                                                                                                                                                                     ✓ 🏖 javamongoclient

ø s main(String[]): void
                          public static void main(String[] args) {
                                      // Establish connection to MongoDB server
MongoClient mongoClient = new MongoClient("localhost", 27017);
System.out.println("Connected to MongoDB server successfully");
                                      // Accessing the database
MongoDatabase database = mongoClient.getDatabase("mongodbjava");
System.out.println("Database 'mongodbjava' accessed successfully");
                                      MongoCollection<Document> collection = database.getCollection("products");
                                     Document query = new Document("releaseDate", new Document("$regex", releaseYear));
                                      MongoCursor<Document> cursor = collection.find(query).iterator();
while (cursor.hasNext()) {
    Document product = cursor.next();
    System.out.println(product.tolson());
}
                                      cursor.close();
                                                                                                                                                                                                                                                                                                                                                                                     | Problems | Javadoc | Declaration | Console x | Conso
Jun 19, 2024 12:39:87 PM com.mongodb.diagnostics.logging.JULlogger log
IMFO: Opened connection [connectionId(localValue:2, serverValue:40)] to localhost:27017
{_id': 3, 'name': "Smartfablet", 'price': 899, 'releaseDate': "2015-01-14", 'spec': ("ram": 12, "screen": 9.7, "cpu": 3.66}, "color": ["blue"], "storage": [
```

2. Find products where the price is between 600 and 900, inclusive

### Code:

#### **Output:**

3. Find all products that have "white" as a color and a CPU speed greater than the average CPU speed of all products.

# Code:

```
🗗 🗾 javamongoclient.java 🗵
      package javamongo;
package javamongo;
import com.mongodb.client.MongoCollection;
import com.mongodb.client.MongoCursor;
import com.mongodb.client.MongoDatabase;
import org.bson.Document;
import com.mongodb.MongoClient;
       8 import java.util.Arrays;
      10 public class javamongoclient {
                 public static void main(String[] args) {
                       // Establish connection to MongoDB server
MongoClient mongoClient = new MongoClient("localhost", 27017);
System.out.println("Connected to MongoDB server successfully");
                        // Accessing the database
                        MongoDatabase database = mongoClient.getDatabase("mongodbjava");
System.out.println("Database 'mongodbjava' accessed successfully");
                        MongoCollection<Document> collection = database.getCollection("products");
                        Colcutate average cro speed proposed bocument ("$group", new Document ("id", null).append ("avgCpu", new Document ("$avg", "$spec.cpu")));

Document avgCpuResult = collection.aggregate(Arrays.asList(avgCpuQuery)).first();

double avgCpuResult.getDouble("avgCpu");
                        // Query for products with "white" color and CPU speed greater than average
Document whiteColorQuery = new Document("color", "white");
Document cpuGreaterThanAvgQuery = new Document("spec.cpu", new Document("$gt", avgCpuSpeed));
                        Document query = new Document("$and", Arrays.asList(whiteColorOuery, cpuGreaterThanAvgOuery));
                        MongoCursor<Document> cursor = collection.find(query).iterator();
                        rongo.ursorvoocument> cursor = collection.fino(query).fterator();
while (cursor.hasNext()) {
    Document product = cursor.next();
    System.out.println(product.toJson()); // Output or process the matching products
                        cursor.close();
```

# **Output:**

```
# Problems # Javadoc & Declaration Console X

* terminated: javamongocient [Java Application] C:\Program Files\Java]dk:\Problems we [1] Jun 2024, 12:49:40 pm - 12:49:40 pm - 12:49:41 pm) [pid: 21524]
Jun 19, 2024 12:49:41 Pm (one.mongods daignostics.logging. JULlogger log
INFO: Cluster created with settings (hosts=[localhost:27017], mode-SINGLE, requiredClusterType=UNKNOWN, serverSelectionTimeout='30000 ms', maxWaitQueueSize=500)
Connected to MongodB server successfully
Database 'mongodbjava' accessed successfu
```

4.find name, price, storage if price is 699 or storage is 1024.

#### Code:

```
🗗 💹 javamongoclient.java 🗡
       package javamongo;
     20 import com.mongodb.client.MongoCollection;
3 import com.mongodb.client.MongoCursor;
     4 import com.mongodb.client.MongoDatabase;
    5 import org.bson.Document;
    6 import com.mongodb.MongoClient;
    8 import java.util.Arrays;
   10 public class javamongoclient {
  12⊝
            public static void main(String[] args) {
   14
                 // Establish connection to MongoDB server
                MongoClient mongoClient = new MongoClient("localhost", 27017);
  15
                System.out.println("Connected to MongoDB server successfully");
   17
   18
                 // Accessing the database
                MongoDatabase database = mongoClient.getDatabase("mongodbjava");
   20
                System.out.println("Database 'mongodbjava' accessed successfully");
   21
                MongoCollection<Document> collection = database.getCollection("products");
   23
                Document query = new Document("$or", Arrays.asList(
    new Document("price", 699),
    new Document("storage", 1024)
   24
                     ));
    28
                Document projection = new Document("name", 1)
                              .append("price", 1)
.append("storage", 1);
    30
                MongoCursor<Document> cursor = collection.find(query)
   34
                                                 .projection(projection)
    35
                                                 .iterator();
                 while (cursor.hasNext()) {
                     Document product = cursor.next();
System.out.println(product.toJson()); // Output or process the matching products
    38
   40
                cursor.close();
 43 }
```

```
cterminated>javamongocient[Java Application] C\Program files\Java\]dk-22\bin\Javawexexe (19 Jun 2024, 12:52:39 pm - 12:52:31 pm) [pid: 10:892]
Jun 19, 20:24 12:52:30 PM com.mongodb. diagnostics.logging.JULlogger log
INFO: Cluster created with settings (hosts=[localhost:27017], mode=SINGLE, requiredClusterType=UNKNOWN, serverSelectionTimeout='30000 ms', maxWaitQueueSize=500)
Connected to MongoOB server successfully
Database 'mongodbiava' accessed successfully
Jun 19, 2024 12:52:30 PM com.mongodb. diagnostics.logging.JULlogger log
INFO: Cluster description not yet available. Waiting for 30000 ms before timing out
Jun 19, 2024 12:52:30 PM com.mongodb.diagnostics.logging.JULlogger log
INFO: Opened connection [connectionid[localValue:1, serverValue:45]] to localhost:27017
Jun 19, 2024 12:52:30 PM com.mongodb.diagnostics.logging.JULlogger log
INFO: Monitor thread successfully connected to server with description ServerDescription(address=localhost:27017, type=STANDALONE, state=CONNECTED, ok=true, version=ServerVersion(versionList=[7, 0, 11]), m:
Jun 19, 2024 12:52:30 PM com.mongodb.diagnostics.logging.JULlogger log
INFO: Monitor thread successfully connected to server with description ServerDescription(address=localhost:27017, type=STANDALONE, state=CONNECTED, ok=true, version=ServerVersion(versionList=[7, 0, 11]), m:
Jun 19, 2024 12:52:30 PM com.mongodb.diagnostics.logging.JULlogger log
INFO: Opened connection [connectionInd[localValue:2, serverValue:46]] to localhost:27017
{"_id": 4, "name": "SmartPad", "price": 699, "storage": [128, 256, 1024]}
```

5. Find products with either cpu is greater than 2gb or ram is between 4 and 12.

### Code:

```
🛑 eclipse-workspace - javamongo/src/main/java/javamongo/javamongoclient.java - Eclipse IDE
File Edit Source Refactor Source Navigate Search Project Run Window Help
| 🗂 ▾ 🔡 🔞 | 🛷 🐤 | ‡> 🕡 ▾ 🚱 ▾ 😘 ▾ 🖼 ❤ 🕒 ▾ | 😭 🍪 ❤ ▾ | 🖳 🎉 👂 🗸 ▼ | 🔛 | 🎉 🎻 👂 🔻 🗎 🗎 🛣 💮 ▼ | 🛃
 🗗 \coprod javamongoclient.java 🗵
     1 package javamongo;
     20 import com.mongodb.client.MongoCollection;
     3 import com.mongodb.client.MongoCursor;
     4 import com.mongodb.client.MongoDatabase;
     5 import org.bson.Document;
     6 import com.mongodb.MongoClient;
     8 import java.util.Arrays;
    10 public class javamongoclient {
   129
            public static void main(String[] args) {
                  // Establish connection to MongoDB server
                 MongoClient mongoClient = new MongoClient("localhost", 27017);
System.out.println("Connected to MongoDB server successfully");
                 // Accessing the database
                 MongoDatabase database = mongoClient.getDatabase("mongodbjava");
                 System.out.println("Database 'mongodbjava' accessed successfully");
                 MongoCollection<Document> collection = database.getCollection("products");
                 Document query = new Document("$or", Arrays.asList(
    new Document("spec.cpu", new Document("$gt", 2)),
    new Document("spec.ram", new Document("$gte", 4).append("$lte", 12))
    24
                      ));
    28
    29
                 MongoCursor<Document> cursor = collection.find(query).iterator();
    30
                 while (cursor.hasNext()) {
    Document product = cursor.next();
                      System.out.println(product.toJson());
    35
                 cursor.close();
    36
            }
38 }
39
```

```
Problems @ Javadoc @ Declaration @ Console X

** <a href="ternimated-javamongoclient [Java Application] CyProgram Files/Java]ydk-22\bin/Javaw.exe (19 Jun 2024, 1255:19 pm] [pid: 2604]

Jun 19, 2024 12:55:18 PM com.ongodb. diagnostics.logging. JULLogger log
INFO: Cluster created with settings (hosts=[localhosts:27017], mode=SINGLE, requiredClusterType=UNKNOWN, serverSelectionTimeout='30000 ms', maxWaitQueueSize=500)

Connected to MongoB server successfully
Jun 19, 2024 12:55:18 PM com.ongodb.diagnostics.logging. JULLogger log
INFO: Cluster description not yet available. Waiting for 30000 ms before timing out
Jun 19, 2024 12:55:18 PM com.ongodb.diagnostics.logging. JULLogger log
INFO: Opened connection [connectionId[localValue12, serverValue47]] to localhost:27017

Jun 19, 2024 12:55:18 PM com.ongodb.diagnostics.logging. JULLogger log
INFO: Opened connection [connectionId[localValue12, serverValue48]] to localhost:27017

Jun 19, 2024 12:55:19 PM com.ongodb.diagnostics.logging. JULLogger log
INFO: Opened connection [connectionId[localValue12, serverValue48]] to localhost:27017

Jun 19, 2024 12:55:19 PM com.ongodb.diagnostics.logging. JULLogger log
INFO: Opened connection [connectionId[localValue12, serverValue48]] to localhost:27017

{".id": 1, "name": "APhone", "price": 799, "releaseDate": "2011-09-01", "spec": ("ram": 4, "screen": 6.5, "cpu": 2.66), "color": ["white", "black"], "storage": [64, 128, 256]]

{".id": 2, "name": "SmartPalot", "price": 899, "releaseDate": "2011-09-01", "spec": ("ram": 12, "screen": 9.7, "cpu": 3.66), "color": ["white", "black"], "storage": [18, 256, 1024]]

{".id": 4, "name": "SmartPalot", "price": 599, "releaseDate": "2011-09-014", "spec": ("ram": 8, "screen": 9.7, "cpu": 3.66), "color": ["white", "orange", "gold", "gray"], "storage": [128, 256, 1024]]

{".id": 5, "name": "SmartPhone", "price": 599, "releaseDate": "2021-09-14", "spec": ("ram": 4, "screen": 9.7, "cpu": 1.66), "color": ["white", "orange", "gold", "gray"], "storage": [128, 256, 1024]]

{".id": 5, "name": "SmartPhone", "
```

6. Find products with niether price is between 600 and 900 nor is it white or black.

### Code:

```
🛭 javamongoclient.java 🗵
 1 package javamongo;
 2 import com.mongodb.client.MongoCollection;
 3 import com.mongodb.client.MongoCursor;
 4 import com.mongodb.client.MongoDatabase;
 5 import org.bson.Document;
 6 import com.mongodb.MongoClient;
 8 import java.util.Arrays;
10 public class javamongoclient {
11
12⊝
        public static void main(String[] args) {
13
14
             // Establish connection to MongoDB server
15
             MongoClient mongoClient = new MongoClient("localhost", 27017);
             System.out.println("Connected to MongoDB server successfully");
16
17
18
             // Accessing the database
19
            MongoDatabase database = mongoClient.getDatabase("mongodbjava");
             System.out.println("Database 'mongodbjava' accessed successfully");
20
21
22
            MongoCollection<Document> collection = database.getCollection("products");
23
24
             Document query = new Document("$nor", Arrays.asList(
                     new Document("price", new Document("$gte", 600).append("$lte", 900)),
new Document("color", new Document("$in", Arrays.asList("white", "black")))
25
26
27
                ));
28
29
            MongoCursor<Document> cursor = collection.find(query).iterator();
30
            while (cursor.hasNext()) {
31
                 Document product = cursor.next();
32
                 System.out.println(product.toJson());
33
             }
34
35
             cursor.close();
        }
36
37 }
```

#### **Output:**

```
# Problems @ Javadoc @ Declaration @ Console ×

| Cerminated | javamongoclient | Java Application | CAProgram Files | Java | Jav
```

(No information is displayed.)

7. Find products where price exists and there is no gray in the colours.

#### Code:

```
🛭 javamongoclient.java 🗵
  package javamongo;
 20 import com.mongodb.client.MongoCollection;
 3 import com.mongodb.client.MongoCursor;
 4 import com.mongodb.client.MongoDatabase;
 5 import org.bson.Document;
 6 import com.mongodb.MongoClient;
 8 import java.util.Arrays;
 10 public class javamongoclient {
11
12⊝
        public static void main(String[] args) {
13
 14
             // Establish connection to MongoDB server
            MongoClient mongoClient = new MongoClient("localhost", 27017);
15
16
            System.out.println("Connected to MongoDB server successfully");
 17
 18
             // Accessing the database
 19
            MongoDatabase database = mongoClient.getDatabase("mongodbjava");
 20
            System.out.println("Database 'mongodbjava' accessed successfully");
 21
 22
            MongoCollection<Document> collection = database.getCollection("products");
 23
 24
            Document query = new Document("$and", Arrays.asList(
 25
                     new Document("price", new Document("$exists", true)),
new Document("color", new Document("$not", new Document("$in", Arrays.asList("gray"))))
 26
 27
                ));
 28
 29
            MongoCursor<Document> cursor = collection.find(query).iterator();
 30
             while (cursor.hasNext()) {
 31
                Document product = cursor.next();
 32
                 System.out.println(product.toJson()); // Output or process the matching products
 33
 34
            cursor.close();
35
36 }
37
```

8. Find products that have either "white" or "black" as a color option and are priced below 800.

### Code:

```
🚭 eclipse-workspace - javamongo/src/main/java/javamongo/javamongoclient.java - Eclipse IDE
File Edit Source Refactor Source Navigate Search Project Run Window Help
| 😭 ▼ 🔚 🐚 : 💝 ♡ : ‡> ▼ 🚺 ▼ 🛂 ▼ 😘 ▼ : 👚 🍪 ▼ : 🈁 😥 🔗 ▼ : 🖳 : ७ : १९ 📝 ७ 🕬 📵 🗇 🖷 : 🔄 🔻 🔻 🗸 💝 🗁 🗡 🗡
🗗 🕖 *javamongoclient.java 🗡
    1 package javamongo;
    2@import com.mongodb.client.MongoCollection;
    3 import com.mongodb.client.MongoCursor;
    4 import com.mongodb.client.MongoDatabase;
    5 import org.bson.Document;
    6 import com.mongodb.MongoClient;
    8 import java.util.Arrays;
   10 public class javamongoclient {
   11
   12⊝
           public static void main(String[] args) {
   13
   14
                // Establish connection to MongoDB server
   15
               MongoClient mongoClient = new MongoClient("localhost", 27017);
               System.out.println("Connected to MongoDB server successfully");
    17
    18
                // Accessing the database
    19
               MongoDatabase database = mongoClient.getDatabase("mongodbjava");
   20
               System.out.println("Database 'mongodbjava' accessed successfully");
    21
    22
               MongoCollection<Document> collection = database.getCollection("products");
    23
    24
               Document query = new Document("$and", Arrays.asList(
    25
                        new Document("price", new Document("$1t", 800)),
new Document("color", new Document("$in", Arrays.asList("white", "black")))
    26
    27
                    )):
    28
    29
               MongoCursor<Document> cursor = collection.find(query).iterator();
   30
               while (cursor.hasNext()) {
    31
                    Document product = cursor.next();
    32
                    System.out.println(product.toJson()); // Output or process the matching products
    33
   34
    35
               cursor.close();
   36
           }
   37
```

```
** Problems ** Javadoc & Declaration Console ×

** Terminated-javamonogoclient [Java Application] Console *

** Terminated-javamonogoclient [Java Applicati
```

9. Find products that do not have "gold" as a color and are priced below 700 or have a storage option of 512GB.

#### Code:

```
 eclipse-workspace - javamongo/src/main/java/javamongo/javamongoclient.java - Eclipse IDE
<u>F</u>ile <u>E</u>dit <u>S</u>ource Refac<u>t</u>or <u>S</u>ource <u>N</u>avigate Se<u>a</u>rch <u>P</u>roject <u>R</u>un <u>W</u>indow <u>H</u>elp
-
    package javamongo;
    20 import com.mongodb.client.MongoCollection;
    3 import com.mongodb.client.MongoCursor;
    4 import com.mongodb.client.MongoDatabase;
    5 import org.bson.Document;
    6 import com.mongodb.MongoClient;
    8 import java.util.Arrays;
    10 public class javamongoclient {
   11
   12⊝
           public static void main(String[] args) {
    13
               // Establish connection to MongoDB server
   14
               MongoClient mongoClient = new MongoClient("localhost", 27017);
    15
    16
               System.out.println("Connected to MongoDB server successfully");
    17
   18
               // Accessing the database
    19
               MongoDatabase database = mongoClient.getDatabase("mongodbjava");
    20
               System.out.println("Database 'mongodbjava' accessed successfully");
    21
    22
               MongoCollection<Document> collection = database.getCollection("products");
    23
               Document query = new Document("$or", Arrays.asList(
    24
                       new Document("$and", Arrays.asList(
                           new Document("price", new Document("$1t", 700)),
new Document("color", new Document("$not", new Document("$eq", "gold")))
    26
    28
    29
                       new Document("storage", 512)
    30
                   ));
    31
    32
               MongoCursor<Document> cursor = collection.find(query).iterator();
    33
               while (cursor.hasNext()) {
    34
                   Document product = cursor.next();
    35
                   System.out.println(product.toJson()); // Output or process the matching products
    36
               }
    37
    38
               cursor.close();
    39
           }
    40 }
```

```
# Cerminated: javanonogoclient [Java Application] C.(Program Filest/Java)dic 22\tempinated: javanonogoclient [Java Application] javanogoclient [Javano
```

10. Find products released before 2019.

### Code:

```
🚭 eclipse-workspace - javamongo/src/main/java/javamongo/javamongoclient.java - Eclipse IDE
\underline{\text{File}} \quad \underline{\text{E}}\text{dit} \quad \underline{\text{S}}\text{ource} \quad \text{Refactor} \quad \underline{\text{S}}\text{ource} \quad \underline{\text{N}}\text{avigate} \quad \text{Se}\underline{\text{arch}} \quad \underline{\text{Project}} \quad \underline{\text{R}}\text{un} \quad \underline{\text{W}}\text{indow} \quad \underline{\text{H}}\text{elp}
| 🗂 ▾ 🗒 🐚 | 💸 ♡ ♥ 😘 ▾ ◑ ▼ 💁 ▾ 😘 ❤ 💮 ❤ । 🥵 છું 🔗 ٽ ! 👰 🍃 🎉 🤡 📵 🏾 🟗 倒 🔻 ী ▾ 🎁 ▾ 🌣 🗘 ▾ 🗗 🕏
🗗 🔝 javamongoclient.java 🗵
     1 package javamongo;
     2@import com.mongodb.client.MongoCollection;
     3 import com.mongodb.client.MongoCursor;
     4 import com.mongodb.client.MongoDatabase;
     5 import org.bson.Document;
     6 import com.mongodb.MongoClient;
   🔈 8 import java.util.Arrays;
    10 public class javamongoclient {
    11
    12⊝
              public static void main(String[] args) {
     13
    14
                   // Establish connection to MongoDB server
     15
                  MongoClient mongoClient = new MongoClient("localhost", 27017);
                  System.out.println("Connected to MongoDB server successfully");
    16
     17
                   // Accessing the database
    18
                  MongoDatabase database = mongoClient.getDatabase("mongodbjava");
    19
     20
                  System.out.println("Database 'mongodbjava' accessed successfully");
     21
     22
                  MongoCollection<Document> collection = database.getCollection("products");
    23
                  Document query = new Document("releaseDate", new Document("$1t", java.time.LocalDate.of(2019, 1, 1)));
    24
    26
                  MongoCursor<Document> cursor = collection.find(query).iterator();
     27
                  while (cursor.hasNext()) {
     28
                       Document product = cursor.next();
     29
                        System.out.println(product.toJson());
     30
    31
     32
                   cursor.close();
             }
    34 }
    35
    36
```

# **Output:**

(No information displayed)

11. List products with a screen size greater than 9.5 inches.

#### Code:

```
🤤 eclipse-workspace - javamongo/src/main/java/javamongo/javamongoclient.java - Eclipse IDE
File Edit Source Refactor Source Navigate Search Project Run Window Help
| 📸 ▾ 🔚 🕼 | 🤣 🐤 | ‡> ▾ 💽 ▾ 🥵 ▾ 🥵 ▾ | 🖶 ❤ 👺 🍅 🔗 ▼ | 🖳 ७ | 👽 💋 ఫ> 🚱 📵 👖 । 🔄 ▼ 🙌 ▼ 🚾 ♥
🗗 \coprod javamongoclient.java 🗡
   1 package javamongo;
    2 import com.mongodb.client.MongoCollection;
    3 import com.mongodb.client.MongoCursor;
    4 import com.mongodb.client.MongoDatabase;
    5 import org.bson.Document;
    6 import com.mongodb.MongoClient;
  8 import java.util.Arrays;
   10 public class javamongoclient {
   11
   12⊝
           public static void main(String[] args) {
   13
   14
               // Establish connection to MongoDB server
               MongoClient mongoClient = new MongoClient("localhost", 27017);
  15
   16
               System.out.println("Connected to MongoDB server successfully");
   17
               // Accessing the database
   18
   19
               MongoDatabase database = mongoClient.getDatabase("mongodbjava");
   20
               System.out.println("Database 'mongodbjava' accessed successfully");
   21
   22
               MongoCollection<Document> collection = database.getCollection("products");
   23
   24
               Document query = new Document("spec.screen", new Document("$gt", 9.5));
   25
   26
               MongoCursor<Document> cursor = collection.find(query).iterator();
   27
               while (cursor.hasNext()) {
   28
                   Document product = cursor.next();
   29
                   System.out.println(product.toJson());
   30
   31
   32
               cursor.close();
   33
           }
   34 }
```

```
# Indept of property of the pr
```

12. Retrieve products with storage options including 512 GB.

#### Code:

```
🚭 eclipse-workspace - javamongo/src/main/java/javamongo/javamongoclient.java - Eclipse IDE
File Edit Source Refactor Source Navigate Search Project Run Window Help
🗗 🔑 javamongoclient.java 🗵
    1 package javamongo;
    2 import com.mongodb.client.MongoCollection;
    3 import com.mongodb.client.MongoCursor;
    4 import com.mongodb.client.MongoDatabase;
    5 import org.bson.Document;
    6 import com.mongodb.MongoClient;
  🔈 8 import java.util.Arrays;
   10 public class javamongoclient {
   11
   12⊝
          public static void main(String[] args) {
   13
   14
              // Establish connection to MongoDB server
              MongoClient mongoClient = new MongoClient("localhost", 27017);
   15
   16
              System.out.println("Connected to MongoDB server successfully");
   17
   18
              // Accessing the database
   19
              MongoDatabase database = mongoClient.getDatabase("mongodbjava");
   20
              System.out.println("Database 'mongodbjava' accessed successfully");
   21
   22
              MongoCollection<Document> collection = database.getCollection("products");
   23
   24
              Document query = new Document("storage", 512);
   25
   26
              MongoCursor<Document> cursor = collection.find(query).iterator();
   27
              while (cursor.hasNext()) {
   28
                  Document product = cursor.next();
   29
                  System.out.println(product.toJson()); // Output or process the matching products
   30
   31
   32
              cursor.close();
   33
          }
34 }
```

```
# Cerminated: javamonogoclient [Java Application] Console ×

# cerminated: javamonogoclient [Java Application] CNProgram Files/Javalyids-22/bin/javaw.exe (19 Jun 2024, 1:17:43 pm | pid: 19224]

| Jun 19, 2024 1:17:42 PM com.mongodb. diagnostics. logging. JULLogger log
| IMFO: Cluster created with settings (hosts=[localhost:27017], mode=SINGLE, requiredClusterType=UNKNOWN, serverSelectionTimeout='30000 ms', maxWaitQueueSize=500}

| Connected to MongoDB server successfully Database 'mongodbjava' accessed successfully Jun 19, 2024 1:17:43 PM com.mongodb. diagnostics. logging. JULLogger log
| IMFO: Cluster description not yet available. Maiting for 30000 ms before timing out Jun 19, 2024 1:17:43 PM com.mongodb. diagnostics. logging. JULlogger log
| IMFO: Opened connection [connectionId[localValue:1, serverValue:61]] to localhost:27017
| Jun 19, 2024 1:17:43 PM com.mongodb. diagnostics. logging. JULlogger log
| IMFO: Opened connection [connectionId[localValue:2, serverValue:62]] to localhost:27017
| IMFO: Opened connection [connectionId[localVal
```