

MONGODB

DELETION OF RECORD:

```
package connection;

import com.mongodb.client.*;
import com.mongodb.client.model.Filters;
import org.bson.Document;

public class Create {
    public static void main(String[] args) {
        // Creating a Mongo client
        MongoClient mongoClient = MongoClient.create("mongodb://localhost:27017");

        // Accessing the database
        MongoDBDatabase database = mongoClient.getDatabase("myDb");

        // Getting the collection
        MongoCollection<Document> collection = database.getCollection("sampleCollection");

        // Delete a document with First_Name = "Mahesh"
        collection.deleteOne(Filters.eq("First_Name", "Mahesh"));
        System.out.println("Document deleted.");

        // Find and print all remaining documents
        FindIterable<Document> documents = collection.find();
        System.out.println("Documents:");
        for (Document document : documents) {
            System.out.println(document.toJson());
        }
    }
}
```

```

    }

    // Closing the client connection
    mongoClient.close();
}
}

```

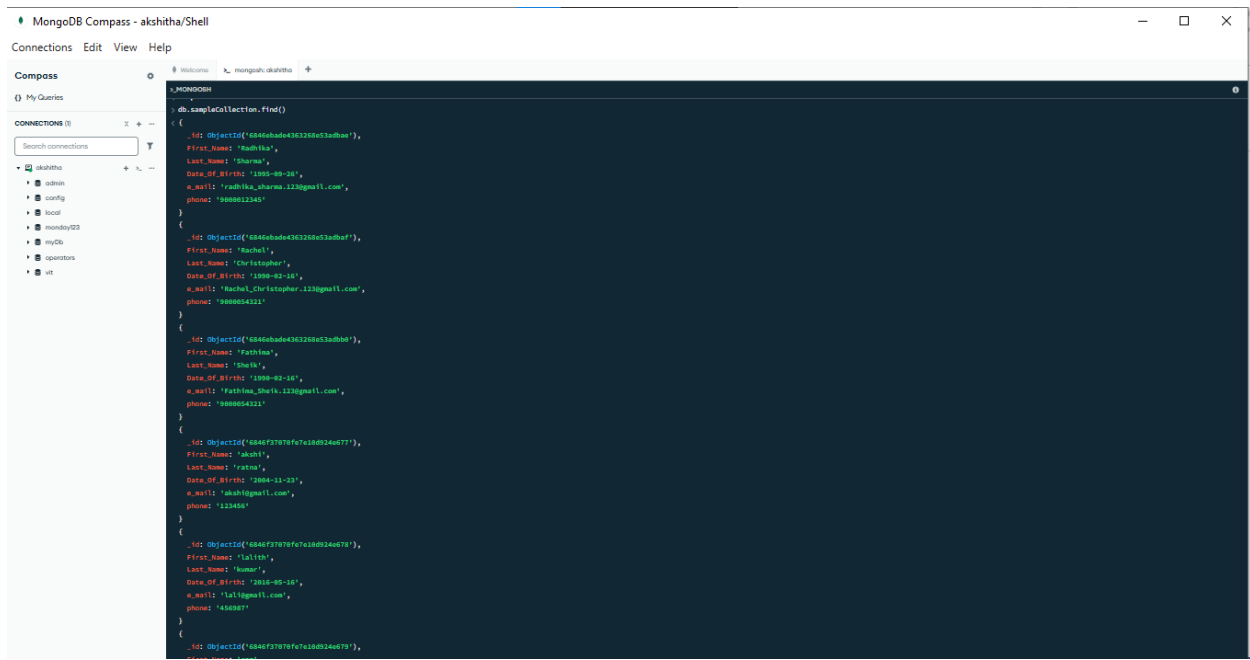
```

1 package connection;
2
3 import com.mongodb.client.*;
4 import com.mongodb.client.model.Filters;
5 import org.bson.Document;
6
7 public class Create {
8     public static void main(String[] args) {
9         // Creating a Mongo client
10        MongoClient mongoClient = MongoClient.create("mongodb://localhost:27017");
11
12        // Accessing the database
13        MongoDB database = mongoClient.getDatabase("myDb");
14
15        // Getting the collection
16        MongoCollection<Document> collection = database.getCollection("sampleCollection");
17
18        // Delete a document with First Name = "Mahesh"
19        collection.deleteOne(Filters.eq("First Name", "Mahesh"));
20        System.out.println("Document deleted.");
21    }
22 }

```

<terminated> Create [Java Application] C:\Users\lalith.p2\pool\plugins\org.eclipse.justi.openjdk-hotspot.jre.full.win32.x86_64.21.0.7.v20230502-0916\jre\bin\javaw.exe (10-Jun-2023 6:26:22 pm - 6:26:22 pm)
 Jun 18, 2023 6:26:48 PM com.mongodb.diagnostics.logging.Logger shouldSubclass()<4>
 WARNING: SLF4J not found on the classpath. Logging is disabled for the 'org.mongodb.driver' component
 Document deleted.
 Documents:
 [{"_id": {"\$oid": "6846ebade4363268e53adbae"}, "First Name": "Radhika", "Last Name": "Sharma", "Date Of Birth": "1995-09-26", "e_mail": "radhika_sharma.1"}, {"_id": {"\$oid": "6846ebade4363268e53adbae"}, "First Name": "Rachel", "Last Name": "Christopher", "Date Of Birth": "1998-02-16", "e_mail": "Rachel_Chris"}, {"_id": {"\$oid": "6846ebade4363268e53adbae"}, "First Name": "Fathima", "Last Name": "Sheik", "Date Of Birth": "1998-02-16", "e_mail": "Fathima_Sheik.123"}, {"_id": {"\$oid": "6846f37070fe7e10d924e679"}, "First Name": "akshi", "Last Name": "ratna", "Date Of Birth": "2004-11-23", "e_mail": "akshi@gmail.com"}, {"_id": {"\$oid": "6846f37070fe7e10d924e678"}, "First Name": "lalith", "Last Name": "kumar", "Date Of Birth": "2016-05-16", "e_mail": "lali@gmail.com"}, {"_id": {"\$oid": "6846f37070fe7e10d924e679"}, "First Name": "ram", "Last Name": "sitha", "Date Of Birth": "1973-12-22", "e_mail": "ram@gmail.com", "phon

MONGODB:



Deleting many records where there is a cappuccino:

package connection;

import org.bson.Document;

import com.mongodb.client.*;

import com.mongodb.client.model.Filters;

import java.time.Instant;

import java.util.Arrays;

public class Create {

 public static void main(String[] args) {

 // Connect to MongoDB

 MongoClient mongoClient = MongoClient.create("mongodb://localhost:27017");

 // Access the database

```

MongoDatabase database = mongoClient.getDatabase("myDb");

// Access the sales collection
MongoCollection<Document> salesCollection = database.getCollection("sales");

// Insert data (only if needed — comment this block out if already inserted)
salesCollection.insertMany(Arrays.asList(

    new Document("_id", 1).append("item", "Americanos").append("price",
5).append("size", "Short").append("quantity", 22).append("date", Instant.parse("2022-01-
15T08:00:00Z")),

    new Document("_id", 2).append("item", "Cappuccino").append("price",
6).append("size", "Short").append("quantity", 12).append("date", Instant.parse("2022-01-
16T09:00:00Z")),

    new Document("_id", 3).append("item", "Lattes").append("price", 15).append("size",
"Grande").append("quantity", 25).append("date", Instant.parse("2022-01-16T09:05:00Z")),

    new Document("_id", 4).append("item", "Mochas").append("price", 25).append("size",
"Tall").append("quantity", 11).append("date", Instant.parse("2022-02-17T08:00:00Z")),

    new Document("_id", 5).append("item", "Americanos").append("price",
10).append("size", "Grande").append("quantity", 12).append("date", Instant.parse("2022-02-
18T21:06:00Z")),

    new Document("_id", 6).append("item", "Cappuccino").append("price",
7).append("size", "Tall").append("quantity", 20).append("date", Instant.parse("2022-02-
20T10:07:00Z")),

    new Document("_id", 7).append("item", "Lattes").append("price", 25).append("size",
"Tall").append("quantity", 30).append("date", Instant.parse("2022-02-21T10:08:00Z")),

    new Document("_id", 8).append("item", "Americanos").append("price",
10).append("size", "Grande").append("quantity", 21).append("date", Instant.parse("2022-02-
22T14:09:00Z")),

    new Document("_id", 9).append("item", "Cappuccino").append("price",
10).append("size", "Grande").append("quantity", 17).append("date", Instant.parse("2022-02-
23T14:09:00Z")),

    new Document("_id", 10).append("item", "Americanos").append("price",
8).append("size", "Tall").append("quantity", 15).append("date", Instant.parse("2022-02-
25T14:09:00Z"))

```

```
));
```

```
System.out.println("Documents inserted.");
```

```
// Delete all documents where item is "Cappuccino"
```

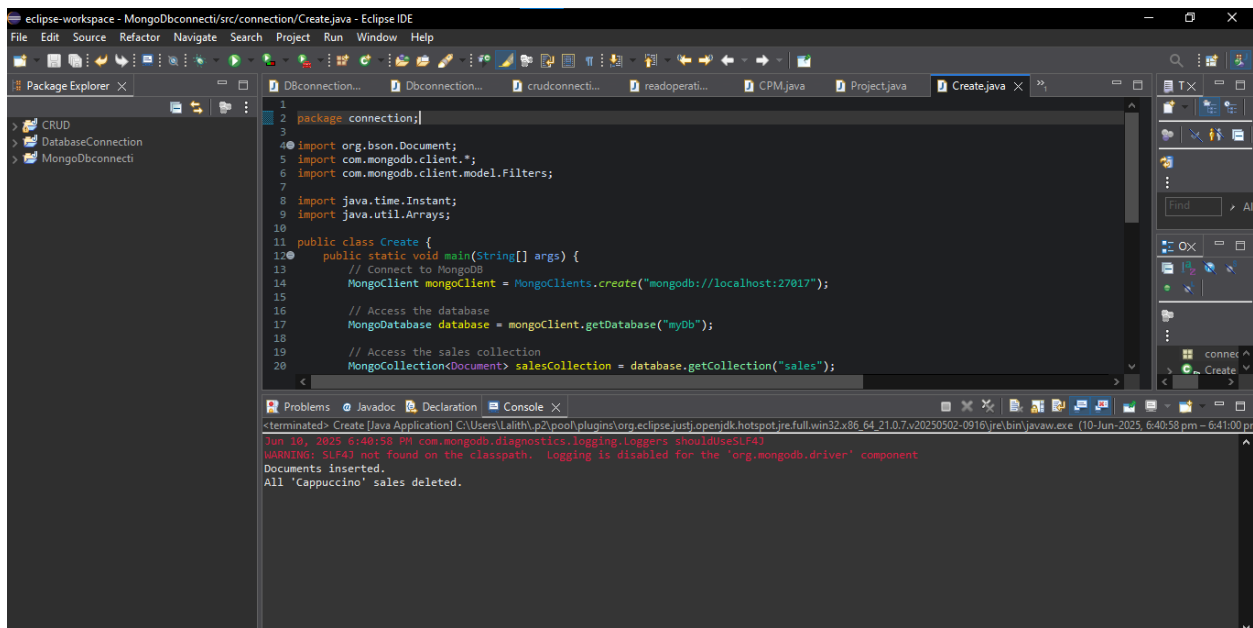
```
salesCollection.deleteMany(Filters.eq("item", "Cappuccino"));
```

```
System.out.println("All 'Cappuccino' sales deleted.");
```

```
mongoClient.close();
```

```
}
```

```
}
```



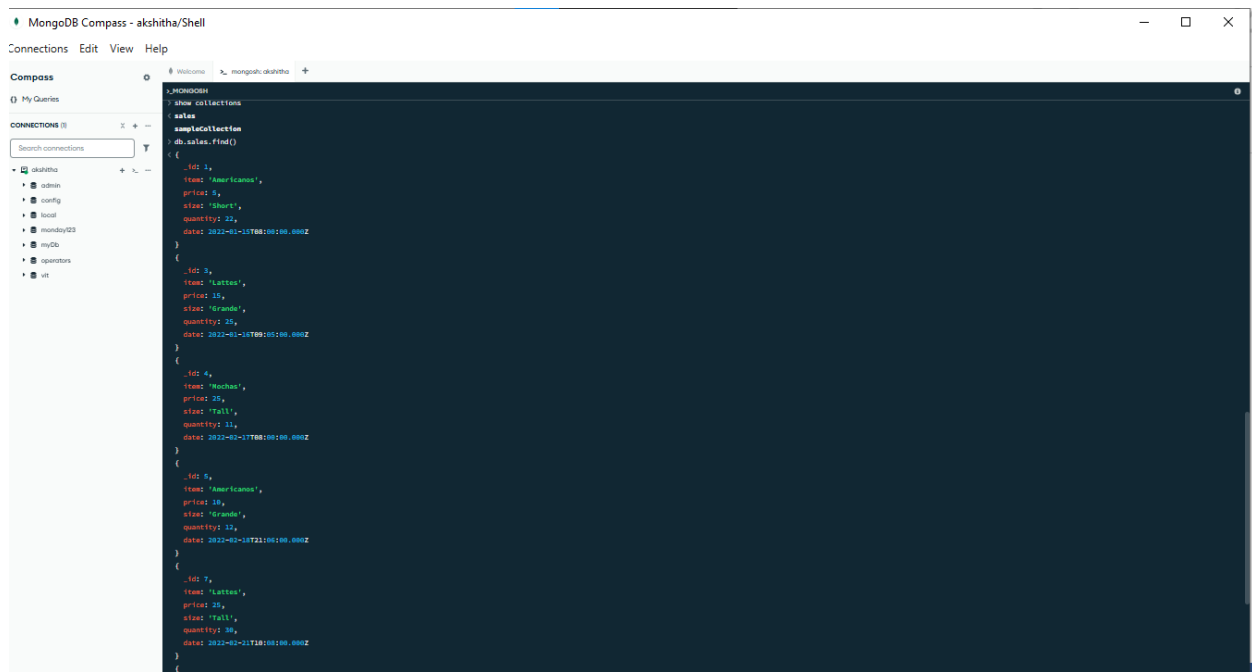
```
eclipse-workspace - MongoDBconnect/src/connection/Create.java - Eclipse IDE
File Edit Source Refactor Navigate Search Project Run Window Help

Package Explorer
> CRUD
> DatabaseConnection
> MongoDBconnect

1 package connection;
2
3
4 import org.bson.Document;
5 import com.mongodb.client.*;
6 import com.mongodb.client.model.Filters;
7
8 import java.time.Instant;
9 import java.util.Arrays;
10
11 public class Create {
12     public static void main(String[] args) {
13         // Connect to MongoDB
14         MongoClient mongoClient = MongoClient.create("mongodb://localhost:27017");
15
16         // Access the database
17         MongoDBDatabase database = mongoClient.getDatabase("myDb");
18
19         // Access the sales collection
20         MongoCollection<Document> salesCollection = database.getCollection("sales");
21
22         // Insert documents
23         List<Document> documents = Arrays.asList(
24             new Document("item", "Cappuccino", "price", 1.5),
25             new Document("item", "Latte", "price", 2.0),
26             new Document("item", "Espresso", "price", 1.0),
27             new Document("item", "Mocha", "price", 2.5),
28             new Document("item", "Americano", "price", 1.5),
29             new Document("item", "Cappuccino", "price", 1.5)
30         );
31         salesCollection.insertMany(documents);
32
33         // Delete documents
34         salesCollection.deleteMany(Filters.eq("item", "Cappuccino"));
35
36         // Print the result
37         System.out.println("Documents inserted.");
38         System.out.println("All 'Cappuccino' sales deleted.");
39
40         mongoClient.close();
41     }
42 }

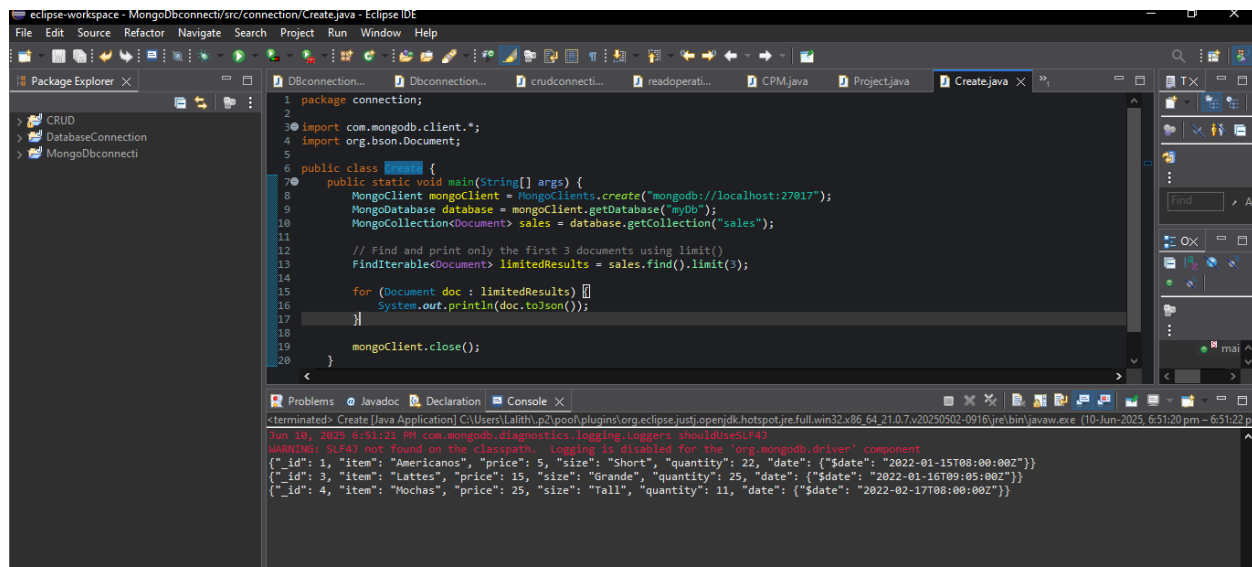
Problems Javadoc Declaration Console
<terminated> Create [Java Application] C:\Users\lalith.p2\poo\plugins\org.eclipse.justi.openjdk-hotspot-jre.full.win32.x86_64.21.0.7.v20250502-0916\jre\bin\javaw.exe (10-Jun-2025, 6:40:58 pm - 6:41:00 pm)
Jun 10, 2025 6:40:58 PM com.mongodb.diagnostics.logging.Loggers shouldUseSLF4J
WARNING: SLF4J not found on the classpath. Logging is disabled for the 'org.mongodb.driver' component
Documents inserted.
All 'Cappuccino' sales deleted.
```

MONGODB:



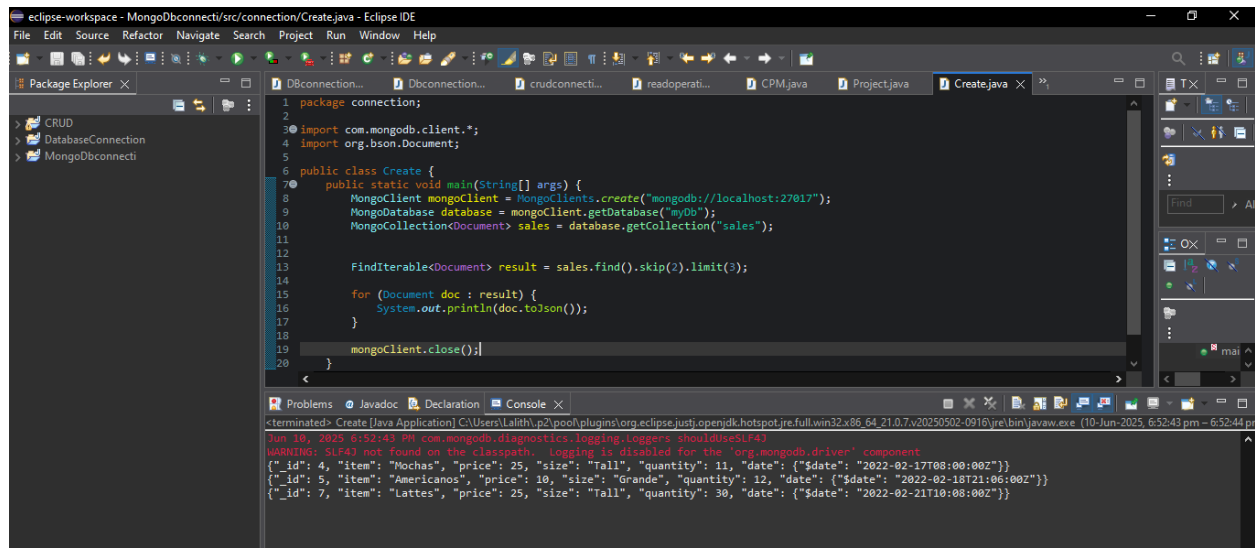
Limit method:

FindIterable<Document> limitedResults = sales.find().limit(3);



SKIP:

FindIterable<Document> result = sales.find().skip(2).limit(3);



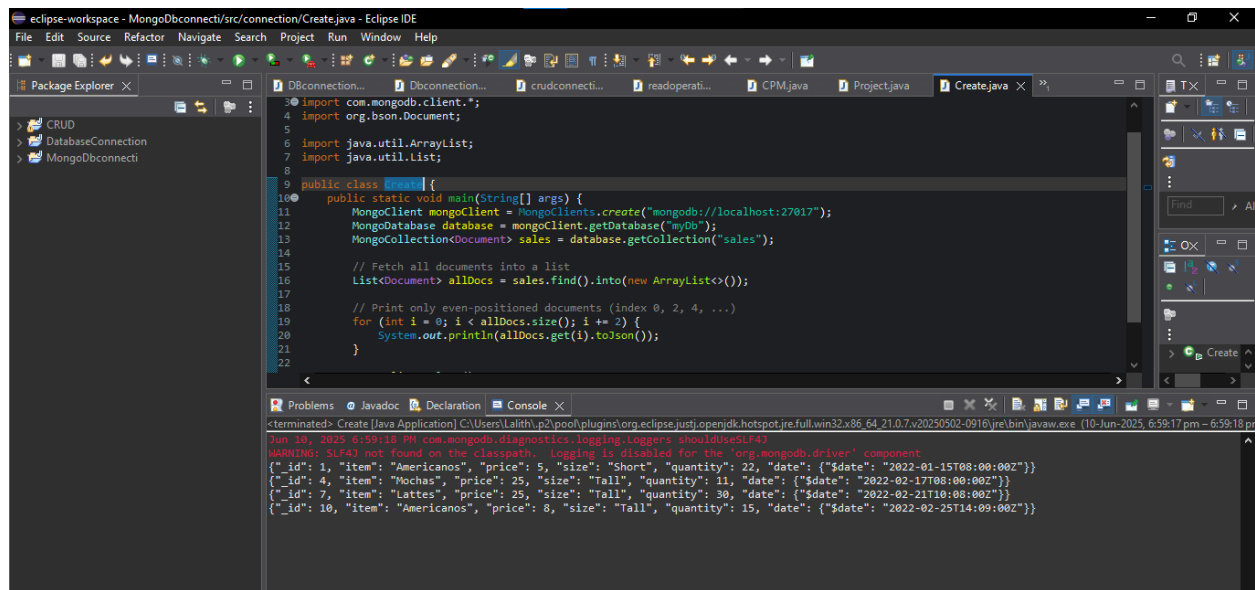
The screenshot shows the Eclipse IDE with a Java project named 'MongoDbconnect'. The 'Package Explorer' on the left shows the project structure. The 'Main' window displays the 'Create.java' file with the following code:

```
1 package connection;
2
3 import com.mongodb.client.*;
4 import org.bson.Document;
5
6 public class Create {
7     public static void main(String[] args) {
8         MongoClient mongoClient = MongoClient.create("mongodb://localhost:27017");
9         MongoDBDatabase database = mongoClient.getDatabase("myDb");
10        MongoCollection<Document> sales = database.getCollection("sales");
11
12
13        FindIterable<Document> result = sales.find().skip(2).limit(3);
14
15        for (Document doc : result) {
16            System.out.println(doc.toJson());
17        }
18
19        mongoClient.close();
20    }
21 }
```

The 'Console' window at the bottom shows the output of the program:

```
<terminated> Create [Java Application] C:\Users\Laith\p2\pool\plugins\org.eclipse.justi.openjdk.hotspot.jre.full.win32.x86_64.21.0.7.v20250502-0910\jre\bin\javaw.exe (10-Jun-2025, 6:52:43 pm - 6:52:44 pm)
Jun 10, 2025 6:52:43 PM com.mongodb.diagnostics.logging.Loggers shouldUseSLF4J
WARNING: SLF4J not found on the classpath. Logging is disabled for the 'org.mongodb.driver' component
{"_id": 4, "item": "Mochas", "price": 25, "size": "Tall", "quantity": 11, "date": {"$date": "2022-02-17T08:00:00Z"}}
{"_id": 5, "item": "Americanos", "price": 10, "size": "Grande", "quantity": 12, "date": {"$date": "2022-02-18T21:00:00Z"}}
{"_id": 7, "item": "Lattes", "price": 25, "size": "Tall", "quantity": 30, "date": {"$date": "2022-02-21T10:08:00Z"}}
```

Even position:



The screenshot shows the Eclipse IDE with a Java project named 'MongoDbconnect'. The 'Package Explorer' on the left shows the project structure. The 'Main' window displays the 'Create.java' file with the following code:

```
3 import com.mongodb.client.*;
4 import org.bson.Document;
5
6 import java.util.ArrayList;
7 import java.util.List;
8
9 public class Create {
10     public static void main(String[] args) {
11         MongoClient mongoClient = MongoClient.create("mongodb://localhost:27017");
12         MongoDBDatabase database = mongoClient.getDatabase("myDb");
13         MongoCollection<Document> sales = database.getCollection("sales");
14
15         // Fetch all documents into a list
16         List<Document> allDocs = sales.find().into(new ArrayList<>());
17
18         // Print only even-positioned documents (index 0, 2, 4, ...)
19         for (int i = 0; i < allDocs.size(); i += 2) {
20             System.out.println(allDocs.get(i).toJson());
21         }
22     }
23 }
```

The 'Console' window at the bottom shows the output of the program:

```
<terminated> Create [Java Application] C:\Users\Laith\p2\pool\plugins\org.eclipse.justi.openjdk.hotspot.jre.full.win32.x86_64.21.0.7.v20250502-0910\jre\bin\javaw.exe (10-Jun-2025, 6:59:17 pm - 6:59:18 pm)
Jun 10, 2025 6:59:18 PM com.mongodb.diagnostics.logging.Loggers shouldUseSLF4J
WARNING: SLF4J not found on the classpath. Logging is disabled for the 'org.mongodb.driver' component
{"_id": 1, "item": "Americanos", "price": 5, "size": "Short", "quantity": 22, "date": {"$date": "2022-01-15T08:00:00Z"}}
{"_id": 4, "item": "Mochas", "price": 25, "size": "Tall", "quantity": 11, "date": {"$date": "2022-02-17T08:00:00Z"}}
{"_id": 7, "item": "Lattes", "price": 25, "size": "Tall", "quantity": 30, "date": {"$date": "2022-02-21T10:08:00Z"}}
{"_id": 10, "item": "Americanos", "price": 8, "size": "Tall", "quantity": 15, "date": {"$date": "2022-02-25T14:09:00Z"}}
```

Sort method:

FindIterable<Document> sortedItems = salesCollection.find() .sort(Sorts.ascending("item"))
.limit(3);

The screenshot shows the Eclipse IDE with a project named 'MongoDbconnecti'. The 'Package Explorer' on the left shows the project structure. The 'DBConnection...' package contains 'DatabaseConnection' and 'MongoDbconnecti'. The 'Create.java' file is open, showing the following code:

```
1 package connection;
2
3 import org.bson.Document;
4 import com.mongodb.client.*;
5 import com.mongodb.client.model.Sorts;
6
7 public class Create {
8     public static void main(String[] args) {
9
10         MongoClient mongoClient = MongoClient.create("mongodb://localhost:27017");
11
12         MongoDB database = mongoClient.getDatabase("myDb");
13         MongoCollection<Document> salesCollection = database.getCollection("sales");
14
15
16         FindIterable<Document> sortedItems = salesCollection.find()
17             .sort(Sorts.ascending("item"))
18             .limit(3);
19
20         // Print the results
21     }
22 }
```

The 'Console' at the bottom shows the output of the application:

```
<terminated> Create [Java Application] C:\Users\Lalith\p2\pool\plugins\org.eclipse.justi.openjdk.hotspot.jre.full.win32.x86_64.21.0.7.v20230502-0916\jre\bin\javaw.exe (10-Jun-2023, 7:24:16 pm - 7:24:17 pm)
Jun 10, 2023 7:24:16 PM com.mongodb.diagnostics.logging.loggers.shouldUseSlf4j
WARNING: Slf4j not found on the classpath. Logging is disabled for the 'org.mongodb.driver' component
{"_id": 8, "item": "Americanos", "price": 10, "size": "Grande", "quantity": 21, "date": {"$date": "2022-02-22T14:09:00Z"}}
{"_id": 5, "item": "Americanos", "price": 10, "size": "Grande", "quantity": 12, "date": {"$date": "2022-02-18T21:06:00Z"}}
{"_id": 1, "item": "Americanos", "price": 5, "size": "Short", "quantity": 22, "date": {"$date": "2022-01-15T08:00:00Z"}}
```

Descending:

The screenshot shows the Eclipse IDE with the same project. The 'Create.java' file is open, showing the following code:

```
9
10 public static void main(String[] args) {
11
12     MongoClient mongoClient = MongoClient.create("mongodb://localhost:27017");
13
14     MongoDB database = mongoClient.getDatabase("myDb");
15     MongoCollection<Document> salesCollection = database.getCollection("sales");
16
17
18     FindIterable<Document> sortedItems = salesCollection.find()
19         .sort(Sorts.descending("item"))
20         .limit(3);
21
22     // Print the results
23     for (Document doc : sortedItems) {
24         System.out.println(doc.toJson());
25     }
26
27     mongoClient.close();
28 }
```

The 'Console' at the bottom shows the output of the application:

```
<terminated> Create [Java Application] C:\Users\Lalith\p2\pool\plugins\org.eclipse.justi.openjdk.hotspot.jre.full.win32.x86_64.21.0.7.v20230502-0916\jre\bin\javaw.exe (10-Jun-2023, 7:28:55 pm - 7:28:58 pm)
Jun 10, 2023 7:28:57 PM com.mongodb.diagnostics.logging.loggers.shouldUseSlf4j
WARNING: Slf4j not found on the classpath. Logging is disabled for the 'org.mongodb.driver' component
{"_id": 4, "item": "Mochas", "price": 25, "size": "Tall", "quantity": 11, "date": {"$date": "2022-02-17T08:00:00Z"}}
{"_id": 7, "item": "Lattes", "price": 25, "size": "Tall", "quantity": 30, "date": {"$date": "2022-02-21T10:08:00Z"}}
{"_id": 3, "item": "Lattes", "price": 15, "size": "Grande", "quantity": 25, "date": {"$date": "2022-01-16T09:05:00Z"}}
```