#### **MONGODB**

# Making a solution in mongodb and verifying it in eclipse:

### **MONGODB:**

```
Eclipse:
package connection;
import org.bson.Document;
import com.mongodb.client.*;
import com.mongodb.client.model.Filters;
import com.mongodb.client.model.Projections;
import com.mongodb.client.model.Sorts;
public class Create {
  public static void main(String[] args) {
    MongoClient mongoClient = MongoClients. create("mongodb://localhost:27017");
    MongoDatabase database = mongoClient.getDatabase("vit");
    MongoCollection<Document> productsCollection = database.getCollection("products");
    FindIterable < Document > result = products Collection.find(
            Filters.and(
```

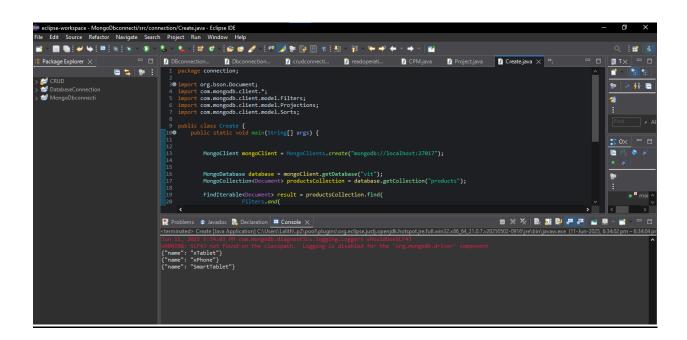
```
Filters.gte("price", 700),
Filters.lte("price", 900)

))
.sort(Sorts.descending("name"))
.projection(Projections.fields(
Projections.include("name"),
Projections.excludeId()

));

for (Document doc : result) {
    System.out.println(doc.toJson());
}

mongoClient.close();
}
```



## **AGREEGATE FUNCTION(AVG):**

```
package connection;
import org.bson.Document;
import com.mongodb.client.*;
import static com.mongodb.client.model.Aggregates.*;
import static com.mongodb.client.model.Accumulators.*;
import java.util.Arrays;
public class Create {
  public static void main(String[] args) {
    MongoClient mongoClient = MongoClients. create("mongodb://localhost:27017");
    MongoDatabase database = mongoClient.getDatabase("vit");
    MongoCollection<Document> productsCollection = database.getCollection("products");
    AggregateIterable<Document> result = productsCollection.aggregate(Arrays.asList(
       group(null, avg("averagePrice", "$price"))
    ));
    for (Document doc : result) {
       System.out.println(doc.toJson());
     }
    mongoClient.close();
}
```

### **ECLLIPSE:**

# **MONGODB:**

Items and that contains maximum price:

### **MONGODB:**

```
    MongoDB Compass - akshitha/Shell

Connections Edit View Help
Compass
{} My Queries
CONNECTIONS (1)
                                          db.sales.aggregate([
                                  T
                                                _id: "$item",
    🕨 🍔 admin
                                                 maxPrice: { $max: "$price" }
    ▶ ■ coffeeShop
    ▶ 3 config
    ▶ 🛢 local
                                               $project: {
    ▶ 🛢 myDb
                                                item: "$_id",
    ▶ ⊜ operators
    ▶ ≘ vit
                                                maxPrice: 1
                                             item: 'Americanos'
```

### **ECLLIPSE:**

```
package connection;
import com.mongodb.client.*;
import org.bson.Document;
import java.util.Arrays;
public class Create {
  public static void main(String[] args) {
    MongoClient mongoClient = MongoClients. create("mongodb://localhost:27017");
    MongoDatabase database = mongoClient.getDatabase("vit");
    MongoCollection<Document> salesCollection = database.getCollection("sales");
    AggregateIterable<Document> result = salesCollection.aggregate(Arrays.asList(
       new Document("$group", new Document(" id", "$item")
```

