// Range Queries

package connection;

import org.bson.Document;

import com.mongodb.BasicDBObject;

import com.mongodb.client.FindIterable;

import com.mongodb.client.MongoClient;

import com.mongodb.client.MongoClients;

import com.mongodb.client.MongoCollection;

import com.mongodb.client.MongoDatabase;

import com.mongodb.client.model.Filters;

public class MongoDB {

public static void main(String[] args) {

// Creating a Mongo client

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

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

// Get the collection

MongoCollection<Document> collection = database.getCollection("products");

Document priceRangeQuery = new Document("price", new Document("$gte", 700).append("$lte", 900));

FindIterable<Document> documents = collection.find(priceRangeQuery);

for(Document document: documents)

System.out.println(document);

}

}

//Aggregation

**package** connection;

**import** java.util.Arrays;

**import** org.bson.Document;

**import** com.mongodb.BasicDBObject;

**import** com.mongodb.client.AggregateIterable;

**import** com.mongodb.client.FindIterable;

**import** com.mongodb.client.MongoClient;

**import** com.mongodb.client.MongoClients;

**import** com.mongodb.client.MongoCollection;

**import** com.mongodb.client.MongoDatabase;

**import** com.mongodb.client.model.Filters;

**import** **static** com.mongodb.client.model.Aggregates.*group*;

**import** **static** com.mongodb.client.model.Accumulators.*avg*;

**public** **class** MongoDB {

**public** **static** **void** main(String[] args) {

// Creating a Mongo client

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

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

// Get the collection

MongoCollection<Document> collection = database.getCollection("products");

AggregateIterable<Document> documents = collection.aggregate(Arrays.*asList*(

*group*(**null**, *avg*("avgPrice", "$price"))

));

**for**(Document document: documents)

System.***out***.println(document);

}

}

//Aggregation 2

**package** connection;

**import** java.util.Arrays;

**import** org.bson.Document;

**import** com.mongodb.BasicDBObject;

**import** com.mongodb.client.AggregateIterable;

**import** com.mongodb.client.FindIterable;

**import** com.mongodb.client.MongoClient;

**import** com.mongodb.client.MongoClients;

**import** com.mongodb.client.MongoCollection;

**import** com.mongodb.client.MongoDatabase;

**import** com.mongodb.client.model.Filters;

**import** **static** com.mongodb.client.model.Sorts.\*;

**import** **static** com.mongodb.client.model.Aggregates.\*;

**import** **static** com.mongodb.client.model.Accumulators.\*;

**public** **class** MongoDB {

**public** **static** **void** main(String[] args) {

// Creating a Mongo client

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

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

// Get the collection

MongoCollection<Document> collection = database.getCollection("sales");

AggregateIterable <Document> documents= collection.aggregate(Arrays.*asList*(

*group*("$item",

*max*("maxPrice", "$price"),

*addToSet*("sizes", "$size")

),

*sort*(*descending*("maxPrice"))

));

**for**(Document document: documents)

System.***out***.println(document);

}

}