import com.mongodb.client.MongoClient;

import com.mongodb.client.MongoClients;

import com.mongodb.client.MongoCollection;

import com.mongodb.client.MongoDatabase;

import org.bson.Document;

public class ProductPriceFilter {

public static void main(String[] args) {

MongoClient mongoClient = MongoClients.create();

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

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

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

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

for (Document product : products) {

System.out.println(product.toJson());

}

mongoClient.close();

}

}

import com.mongodb.client.AggregateIterable;

import com.mongodb.client.MongoClients;

import com.mongodb.client.MongoClient;

import com.mongodb.client.MongoDatabase;

import com.mongodb.client.MongoCollection;

import org.bson.Document;

import java.util.Arrays;

public class AveragePriceAggregation {

public static void main(String[] args) {

MongoClient mongoClient = MongoClients.create();

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

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

AggregateIterable<Document> avgResult = collection.aggregate(Arrays.asList(

new Document("$group", new Document("\_id", null)

.append("averagePrice", new Document("$avg", "$price")))

));

for (Document doc : avgResult) {

System.out.println("Average Price: " + doc.getDouble("averagePrice"));

}

mongoClient.close();

}

}

package connection;

import org.bson.Document;

import com.mongodb.client.MongoClient;

import com.mongodb.client.MongoClients;

import com.mongodb.client.MongoCollection;

import com.mongodb.client.MongoDatabase;

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

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

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

import java.util.Arrays;

public class MongoDB {

public static void main(String[] args) {

try (MongoClient mongo = MongoClients.create("mongodb://localhost:27017")) {

MongoDatabase db = mongo.getDatabase("vit");

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

sales.aggregate(Arrays.asList(

group("$item",

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

addToSet("sizes", "$size")

),

sort(descending("maxPrice"))

)).forEach((Document doc) -> {

System.out.printf("%-10s: $%2d (Sizes: %s)%n",

doc.getString("\_id"),

doc.getInteger("maxPrice"),

doc.getList("sizes", String.class));

});

}

}

}