**Queries and Results for Product collection of mongodbDay1Task Database:**

use mongodbDay1Task;

switched to db mongodbDay1Task

db.product.insertMany([{"product\_name": "Intelligent Fresh Chips",

"product\_price": 655.00,

"product\_material": "Concrete",

"product\_color": "mint green"},{"product\_name": "Practical Fresh Sausages",

"product\_price": 911.0,

"product\_material": "Cotton",

"product\_color": "indigo"},{"product\_name": "Refined Steel Car",

"product\_price": 690.00,

"product\_material": "Rubber",

"product\_color": "gold"},{"product\_name": "Gorgeous Plastic Pants",

"product\_price": 492.00,

"product\_material": "Soft",

"product\_color": "plum"},{"product\_name": "Sleek Cotton Chair",

"product\_price": 33.00,

"product\_material": "Fresh",

"product\_color": "black"},{ "product\_name": "Awesome Wooden Towels",

"product\_price": 474.00,

"product\_material": "Plastic",

"product\_color": "orange"},{"product\_name": "Practical Soft Shoes",

"product\_price": 500.00,

"product\_material": "Rubber",

"product\_color": "pink"},{ "product\_name": "Incredible Steel Hat",

"product\_price": 78.00,

"product\_material": "Rubber",

"product\_color": "violet"},{"product\_name": "Awesome Wooden Ball",

"product\_price": 28.00,

"product\_material": "Soft",

"product\_color": "azure"},{"product\_name": "Generic Wooden Pizza",

"product\_price": 84.00,

"product\_material": "Frozen",

"product\_color": "indigo"},{ "product\_name": "Unbranded Wooden Cheese",

"product\_price":26.00,

"product\_material": "Soft",

"product\_color": "black"},{"product\_name": "Unbranded Plastic Salad",

"product\_price": 89.00,

"product\_material": "Wooden",

"product\_color": "pink"},{"product\_name": "Gorgeous Cotton Keyboard",

"product\_price": 37.00,

"product\_material": "Concrete",

"product\_color": "sky blue"},{"product\_name": "Incredible Steel Shirt",

"product\_price": 54.00,

"product\_material": "Metal",

"product\_color": "white"},{"product\_name": "Ergonomic Cotton Hat",

"product\_price": 43.00,

"product\_material": "Rubber",

"product\_color": "mint green"},{"product\_name": "Small Soft Chair",

"product\_price": 47.00,

"product\_material": "Cotton",

"product\_color": "teal"},{"product\_name": "Incredible Metal Car",

"product\_price":36.00,

"product\_material": "Fresh",

"product\_color": "indigo"},{ "product\_name": "Licensed Plastic Bacon",

"product\_price":88.00,

"product\_material": "Steel",

"product\_color": "yellow"},{ "product\_name": "Intelligent Cotton Chips",

"product\_price": 46.00,

"product\_material": "Soft",

"product\_color": "azure"},{"product\_name": "Handcrafted Wooden Bacon",

"product\_price": 36.00,

"product\_material": "Concrete",

"product\_color": "lime"},{"product\_name": "Unbranded Granite Chicken",

"product\_price": 90.00,

"product\_material": "Metal",

"product\_color": "gold"},{ "product\_name": "Ergonomic Soft Hat",

"product\_price": 99.00,

"product\_material": "Rubber",

"product\_color": "black"},{"product\_name": "Intelligent Steel Pizza",

"product\_price": 95.00,

"product\_material": "Cotton",

"product\_color": "azure"},{"product\_name": "Tasty Rubber Cheese",

"product\_price":47.00,

"product\_material": "Frozen",

"product\_color": "orchid"},{"product\_name": "Licensed Steel Car",

"product\_price":20.00,

"product\_material": "Cotton",

"product\_color": "indigo"}]);

1. Find all the information about each products

Query:

db.product.find();

Result:

{

\_id: ObjectId('65e08d8308c8711eff887110'),

product\_name: 'Intelligent Fresh Chips',

product\_price: 655,

product\_material: 'Concrete',

product\_color: 'mint green'

}

{

\_id: ObjectId('65e08d8308c8711eff887111'),

product\_name: 'Practical Fresh Sausages',

product\_price: 911,

product\_material: 'Cotton',

product\_color: 'indigo'

}

{

\_id: ObjectId('65e08d8308c8711eff887112'),

product\_name: 'Refined Steel Car',

product\_price: 690,

product\_material: 'Rubber',

product\_color: 'gold'

}

{

\_id: ObjectId('65e08d8308c8711eff887113'),

product\_name: 'Gorgeous Plastic Pants',

product\_price: 492,

product\_material: 'Soft',

product\_color: 'plum'

}

{

\_id: ObjectId('65e08d8308c8711eff887114'),

product\_name: 'Sleek Cotton Chair',

product\_price: 33,

product\_material: 'Fresh',

product\_color: 'black'

}

{

\_id: ObjectId('65e08d8308c8711eff887115'),

product\_name: 'Awesome Wooden Towels',

product\_price: 474,

product\_material: 'Plastic',

product\_color: 'orange'

}

{

\_id: ObjectId('65e08d8308c8711eff887116'),

product\_name: 'Practical Soft Shoes',

product\_price: 500,

product\_material: 'Rubber',

product\_color: 'pink'

}

{

\_id: ObjectId('65e08d8308c8711eff887117'),

product\_name: 'Incredible Steel Hat',

product\_price: 78,

product\_material: 'Rubber',

product\_color: 'violet'

}

{

\_id: ObjectId('65e08d8308c8711eff887118'),

product\_name: 'Awesome Wooden Ball',

product\_price: 28,

product\_material: 'Soft',

product\_color: 'azure'

}

{

\_id: ObjectId('65e08d8308c8711eff887119'),

product\_name: 'Generic Wooden Pizza',

product\_price: 84,

product\_material: 'Frozen',

product\_color: 'indigo'

}

{

\_id: ObjectId('65e08d8308c8711eff88711a'),

product\_name: 'Unbranded Wooden Cheese',

product\_price: 26,

product\_material: 'Soft',

product\_color: 'black'

}

{

\_id: ObjectId('65e08d8308c8711eff88711b'),

product\_name: 'Unbranded Plastic Salad',

product\_price: 89,

product\_material: 'Wooden',

product\_color: 'pink'

}

{

\_id: ObjectId('65e08d8308c8711eff88711c'),

product\_name: 'Gorgeous Cotton Keyboard',

product\_price: 37,

product\_material: 'Concrete',

product\_color: 'sky blue'

}

{

\_id: ObjectId('65e08d8308c8711eff88711d'),

product\_name: 'Incredible Steel Shirt',

product\_price: 54,

product\_material: 'Metal',

product\_color: 'white'

}

{

\_id: ObjectId('65e08d8308c8711eff88711e'),

product\_name: 'Ergonomic Cotton Hat',

product\_price: 43,

product\_material: 'Rubber',

product\_color: 'mint green'

}

{

\_id: ObjectId('65e08d8308c8711eff88711f'),

product\_name: 'Small Soft Chair',

product\_price: 47,

product\_material: 'Cotton',

product\_color: 'teal'

}

{

\_id: ObjectId('65e08d8308c8711eff887120'),

product\_name: 'Incredible Metal Car',

product\_price: 36,

product\_material: 'Fresh',

product\_color: 'indigo'

}

{

\_id: ObjectId('65e08d8308c8711eff887121'),

product\_name: 'Licensed Plastic Bacon',

product\_price: 88,

product\_material: 'Steel',

product\_color: 'yellow'

}

{

\_id: ObjectId('65e08d8308c8711eff887122'),

product\_name: 'Intelligent Cotton Chips',

product\_price: 46,

product\_material: 'Soft',

product\_color: 'azure'

}

{

\_id: ObjectId('65e08d8308c8711eff887123'),

product\_name: 'Handcrafted Wooden Bacon',

product\_price: 36,

product\_material: 'Concrete',

product\_color: 'lime'

}

{

\_id: ObjectId('65e08d8308c8711eff887124'),

product\_name: 'Unbranded Granite Chicken',

product\_price: 90,

product\_material: 'Metal',

product\_color: 'gold'

}

{

\_id: ObjectId('65e08d8308c8711eff887125'),

product\_name: 'Ergonomic Soft Hat',

product\_price: 99,

product\_material: 'Rubber',

product\_color: 'black'

}

{

\_id: ObjectId('65e08d8308c8711eff887126'),

product\_name: 'Intelligent Steel Pizza',

product\_price: 95,

product\_material: 'Cotton',

product\_color: 'azure'

}

{

\_id: ObjectId('65e08d8308c8711eff887127'),

product\_name: 'Tasty Rubber Cheese',

product\_price: 47,

product\_material: 'Frozen',

product\_color: 'orchid'

}

{

\_id: ObjectId('65e08d8308c8711eff887128'),

product\_name: 'Licensed Steel Car',

product\_price: 20,

product\_material: 'Cotton',

product\_color: 'indigo'

}

1. Find the product price which are between 400 to 800

Query:

db.product.find({ product\_price: { $gte: 400, $lte: 800 } })

Result:

{

\_id: ObjectId('65e08d8308c8711eff887110'),

product\_name: 'Intelligent Fresh Chips',

product\_price: 655,

product\_material: 'Concrete',

product\_color: 'mint green'

}

{

\_id: ObjectId('65e08d8308c8711eff887112'),

product\_name: 'Refined Steel Car',

product\_price: 690,

product\_material: 'Rubber',

product\_color: 'gold'

}

{

\_id: ObjectId('65e08d8308c8711eff887113'),

product\_name: 'Gorgeous Plastic Pants',

product\_price: 492,

product\_material: 'Soft',

product\_color: 'plum'

}

{

\_id: ObjectId('65e08d8308c8711eff887115'),

product\_name: 'Awesome Wooden Towels',

product\_price: 474,

product\_material: 'Plastic',

product\_color: 'orange'

}

{

\_id: ObjectId('65e08d8308c8711eff887116'),

product\_name: 'Practical Soft Shoes',

product\_price: 500,

product\_material: 'Rubber',

product\_color: 'pink'

}

1. Find the product price which are not between 400 to 600

Query:

db.product.find({ product\_price: { $not: { $gte: 400, $lte: 600 } } })

Result:

{

\_id: ObjectId('65e08d8308c8711eff887110'),

product\_name: 'Intelligent Fresh Chips',

product\_price: 655,

product\_material: 'Concrete',

product\_color: 'mint green'

}

{

\_id: ObjectId('65e08d8308c8711eff887111'),

product\_name: 'Practical Fresh Sausages',

product\_price: 911,

product\_material: 'Cotton',

product\_color: 'indigo'

}

{

\_id: ObjectId('65e08d8308c8711eff887112'),

product\_name: 'Refined Steel Car',

product\_price: 690,

product\_material: 'Rubber',

product\_color: 'gold'

}

{

\_id: ObjectId('65e08d8308c8711eff887114'),

product\_name: 'Sleek Cotton Chair',

product\_price: 33,

product\_material: 'Fresh',

product\_color: 'black'

}………….

1. List the four product which are greater than 500 in price

Query:

db.product.find({ product\_price: { $gt: 500 } }).limit(4)

Result:

{

\_id: ObjectId('65e08d8308c8711eff887110'),

product\_name: 'Intelligent Fresh Chips',

product\_price: 655,

product\_material: 'Concrete',

product\_color: 'mint green'

}

{

\_id: ObjectId('65e08d8308c8711eff887111'),

product\_name: 'Practical Fresh Sausages',

product\_price: 911,

product\_material: 'Cotton',

product\_color: 'indigo'

}

{

\_id: ObjectId('65e08d8308c8711eff887112'),

product\_name: 'Refined Steel Car',

product\_price: 690,

product\_material: 'Rubber',

product\_color: 'gold'

}

1. Find the product name and product material of each products

Query:

db.product.find({}, { 'product\_name': 1, 'product\_material': 1, \_id: 0 });

Result:

{

product\_name: 'Intelligent Fresh Chips',

product\_material: 'Concrete'

}

{

product\_name: 'Practical Fresh Sausages',

product\_material: 'Cotton'

}

{

product\_name: 'Refined Steel Car',

product\_material: 'Rubber'

}

{

product\_name: 'Refined Steel Car',

product\_material: 'Rubber'

}

{

product\_name: 'Sleek Cotton Chair',

product\_material: 'Fresh'

}

{

product\_name: 'Awesome Wooden Towels',

product\_material: 'Plastic'

}

{

product\_name: 'Practical Soft Shoes',

product\_material: 'Rubber'

}

{

product\_name: 'Incredible Steel Hat',

product\_material: 'Rubber'

}

{

product\_name: 'Awesome Wooden Ball',

product\_material: 'Soft'

}

{

product\_name: 'Generic Wooden Pizza',

product\_material: 'Frozen'

}

{

product\_name: 'Unbranded Wooden Cheese',

product\_material: 'Soft'

}

{

product\_name: 'Unbranded Plastic Salad',

product\_material: 'Wooden'

}

{

product\_name: 'Gorgeous Cotton Keyboard',

product\_material: 'Concrete'

}

{

product\_name: 'Incredible Steel Shirt',

product\_material: 'Metal'

}

{

product\_name: 'Ergonomic Cotton Hat',

product\_material: 'Rubber'

}

{

product\_name: 'Small Soft Chair',

product\_material: 'Cotton'

}

{

product\_name: 'Incredible Metal Car',

product\_material: 'Fresh'

}

{

product\_name: 'Licensed Plastic Bacon',

product\_material: 'Steel'

}

{

product\_name: 'Intelligent Cotton Chips',

product\_material: 'Soft'

}

{

product\_name: 'Handcrafted Wooden Bacon',

product\_material: 'Concrete'

}

1. Find the product with a row id of 10

Query:

db.product.findOne({ \_id: ObjectId("65e08d8308c8711eff887119") });

Result:

{

\_id: ObjectId('65e08d8308c8711eff887119'),

product\_name: 'Generic Wooden Pizza',

product\_price: 84,

product\_material: 'Frozen',

product\_color: 'indigo'

}

1. Find only the product name and product material

Query:

db.product.find({}, { 'product\_name': 1, 'product\_material': 1, \_id: 0 });

Result:

{

product\_name: 'Intelligent Fresh Chips',

product\_material: 'Concrete'

}

{

product\_name: 'Practical Fresh Sausages',

product\_material: 'Cotton'

}

……

1. Find all products which contain the value of soft in product material

Query:

db.product.find({ product\_material: { $regex: /soft/i } })

Result:

{

\_id: ObjectId('65e08d8308c8711eff887113'),

product\_name: 'Gorgeous Plastic Pants',

product\_price: 492,

product\_material: 'Soft',

product\_color: 'plum'

}

{

\_id: ObjectId('65e08d8308c8711eff887118'),

product\_name: 'Awesome Wooden Ball',

product\_price: 28,

product\_material: 'Soft',

product\_color: 'azure'

}

{

\_id: ObjectId('65e08d8308c8711eff88711a'),

product\_name: 'Unbranded Wooden Cheese',

product\_price: 26,

product\_material: 'Soft',

product\_color: 'black'

}

…..

1. Find products which contain product color indigo  and product price 492.00

Query:

db.product.find({ product\_color: "indigo", product\_price: 492.00 })

Result:

-----

1. Delete the products which product price value are same

Query:

db.product.aggregate([

{

$group: {

\_id: "$product\_price",

count: { $sum: 1 },

ids: { $push: "$\_id" }

}

},

{

$match: {

count: { $gt: 1 }

}

}

]).forEach(doc => {

// Step 3:

doc.ids.shift();

db.product.deleteMany({ \_id: { $in: doc.ids } });

});

Result:

----