1. **Find all the information about each products**

**Solution:**

**Query:**

1. use products;
2. db.products.insertMany([{productJSONData]});
3. db.products.find();

**Result:**

[{

\_id: ObjectId("65e02f24ba1d37b70a2088bf"),

id: '1',

product\_name: 'Intelligent Fresh Chips',

product\_price: 655,

product\_material: 'Concrete',

product\_color: 'mint green'

},

{

\_id: ObjectId("65e02f24ba1d37b70a2088c0"),

id: '2',

product\_name: 'Practical Fresh Sausages',

product\_price: 911,

product\_material: 'Cotton',

product\_color: 'indigo'

},

{

\_id: ObjectId("65e02f24ba1d37b70a2088c1"),

id: '3',

product\_name: 'Refined Steel Car',

product\_price: 690,

product\_material: 'Rubber',

product\_color: 'gold'

}, ….] (25products)

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

**Query:**

db.product.find(

{

'product\_price':{$gt:400,$lt:800}

});

**Solution:**

[ {

\_id: ObjectId("65e02f24ba1d37b70a2088bf"),

id: '1',

product\_name: 'Intelligent Fresh Chips',

product\_price: 655,

product\_material: 'Concrete',

product\_color: 'mint green'

},

{

\_id: ObjectId("65e02f24ba1d37b70a2088c1"),

id: '3',

product\_name: 'Refined Steel Car',

product\_price: 690,

product\_material: 'Rubber',

product\_color: 'gold'

},

{

\_id: ObjectId("65e02f24ba1d37b70a2088c2"),

id: '4',

product\_name: 'Gorgeous Plastic Pants',

product\_price: 492,

product\_material: 'Soft',

product\_color: 'plum'

},

{

\_id: ObjectId("65e02f24ba1d37b70a2088c4"),

id: '6',

product\_name: 'Awesome Wooden Towels',

product\_price: 474,

product\_material: 'Plastic',

product\_color: 'orange'

},

{

\_id: ObjectId("65e02f24ba1d37b70a2088c5"),

id: '7',

product\_name: 'Practical Soft Shoes',

product\_price: 500,

product\_material: 'Rubber',

product\_color: 'pink'

}]

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

**Query:**

db.product.find(

{

$or:[{'product\_price':{$lt:400}},{'product\_price':{$gt:600}}]

});

**Solution:**

[{

\_id: ObjectId("65e02f24ba1d37b70a2088bf"),

id: '1',

product\_name: 'Intelligent Fresh Chips',

product\_price: 655,

product\_material: 'Concrete',

product\_color: 'mint green'

},

{

\_id: ObjectId("65e02f24ba1d37b70a2088c0"),

id: '2',

product\_name: 'Practical Fresh Sausages',

product\_price: 911,

product\_material: 'Cotton',

product\_color: 'indigo'

},

{

\_id: ObjectId("65e02f24ba1d37b70a2088c1"),

id: '3',

product\_name: 'Refined Steel Car',

product\_price: 690,

product\_material: 'Rubber',

product\_color: 'gold'

},

{

\_id: ObjectId("65e02f24ba1d37b70a2088c3"),

id: '5',

product\_name: 'Sleek Cotton Chair',

product\_price: 33,

product\_material: 'Fresh',

product\_color: 'black'

},

{

\_id: ObjectId("65e02f24ba1d37b70a2088c6"),

id: '8',

product\_name: 'Incredible Steel Hat',

product\_price: 78,

product\_material: 'Rubber',

product\_color: 'violet'

},

{

\_id: ObjectId("65e02f24ba1d37b70a2088c7"),

id: '9',

product\_name: 'Awesome Wooden Ball',

product\_price: 28,

product\_material: 'Soft',

product\_color: 'azure'

},

{

\_id: ObjectId("65e02f24ba1d37b70a2088c8"),

id: '10',

product\_name: 'Generic Wooden Pizza',

product\_price: 84,

product\_material: 'Frozen',

product\_color: 'indigo'

},

{

\_id: ObjectId("65e02f24ba1d37b70a2088c9"),

id: '11',

product\_name: 'Unbranded Wooden Cheese',

product\_price: 26,

product\_material: 'Soft',

product\_color: 'black'

},

{

\_id: ObjectId("65e02f24ba1d37b70a2088ca"),

id: '12',

product\_name: 'Unbranded Plastic Salad',

product\_price: 89,

product\_material: 'Wooden',

product\_color: 'pink'

},

{

\_id: ObjectId("65e02f24ba1d37b70a2088cb"),

id: '13',

product\_name: 'Gorgeous Cotton Keyboard',

product\_price: 37,

product\_material: 'Concrete',

product\_color: 'sky blue'

},

{

\_id: ObjectId("65e02f24ba1d37b70a2088cc"),

id: '14',

product\_name: 'Incredible Steel Shirt',

product\_price: 54,

product\_material: 'Metal',

product\_color: 'white'

},

{

\_id: ObjectId("65e02f24ba1d37b70a2088cd"),

id: '15',

product\_name: 'Ergonomic Cotton Hat',

product\_price: 43,

product\_material: 'Rubber',

product\_color: 'mint green'

},

{

\_id: ObjectId("65e02f24ba1d37b70a2088ce"),

id: '16',

product\_name: 'Small Soft Chair',

product\_price: 47,

product\_material: 'Cotton',

product\_color: 'teal'

},

{

\_id: ObjectId("65e02f24ba1d37b70a2088cf"),

id: '17',

product\_name: 'Incredible Metal Car',

product\_price: 36,

product\_material: 'Fresh',

product\_color: 'indigo'

},

{

\_id: ObjectId("65e02f24ba1d37b70a2088d0"),

id: '18',

product\_name: 'Licensed Plastic Bacon',

product\_price: 88,

product\_material: 'Steel',

product\_color: 'yellow'

},

{

\_id: ObjectId("65e02f24ba1d37b70a2088d1"),

id: '19',

product\_name: 'Intelligent Cotton Chips',

product\_price: 46,

product\_material: 'Soft',

product\_color: 'azure'

},

{

\_id: ObjectId("65e02f24ba1d37b70a2088d2"),

id: '20',

product\_name: 'Handcrafted Wooden Bacon',

product\_price: 36,

product\_material: 'Concrete',

product\_color: 'lime'

},

{

\_id: ObjectId("65e02f24ba1d37b70a2088d3"),

id: '21',

product\_name: 'Unbranded Granite Chicken',

product\_price: 90,

product\_material: 'Metal',

product\_color: 'gold'

},

{

\_id: ObjectId("65e02f24ba1d37b70a2088d4"),

id: '22',

product\_name: 'Ergonomic Soft Hat',

product\_price: 99,

product\_material: 'Rubber',

product\_color: 'black'

},

{

\_id: ObjectId("65e02f24ba1d37b70a2088d5"),

id: '23',

product\_name: 'Intelligent Steel Pizza',

product\_price: 95,

product\_material: 'Cotton',

product\_color: 'azure'

},

{

\_id: ObjectId("65e02f24ba1d37b70a2088d6"),

id: '24',

product\_name: 'Tasty Rubber Cheese',

product\_price: 47,

product\_material: 'Frozen',

product\_color: 'orchid'

},

{

\_id: ObjectId("65e02f24ba1d37b70a2088d7"),

id: '25',

product\_name: 'Licensed Steel Car',

product\_price: 20,

product\_material: 'Cotton',

product\_color: 'indigo'

}

]

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

**Query:**

db.product.find

({

'product\_price':{$gte:500}}

).limit(4);

**Output:**

­­ [

{

\_id: ObjectId("65e02f24ba1d37b70a2088bf"),

id: '1',

product\_name: 'Intelligent Fresh Chips',

product\_price: 655,

product\_material: 'Concrete',

product\_color: 'mint green'

},

{

\_id: ObjectId("65e02f24ba1d37b70a2088c0"),

id: '2',

product\_name: 'Practical Fresh Sausages',

product\_price: 911,

product\_material: 'Cotton',

product\_color: 'indigo'

},

{

\_id: ObjectId("65e02f24ba1d37b70a2088c1"),

id: '3',

product\_name: 'Refined Steel Car',

product\_price: 690,

product\_material: 'Rubber',

product\_color: 'gold'

},

{

\_id: ObjectId("65e02f24ba1d37b70a2088c5"),

id: '7',

product\_name: 'Practical Soft Shoes',

product\_price: 500,

product\_material: 'Rubber',

product\_color: 'pink'

}

]

**5.Find the product name and product material of each products**

**Query:**

**db.product.find(**

**{},**

**{'product\_name':1,'product\_material':1}**

**);**

**Solution:**

[

{

\_id: ObjectId("65e02f24ba1d37b70a2088bf"),

product\_name: 'Intelligent Fresh Chips',

product\_material: 'Concrete'

},

{

\_id: ObjectId("65e02f24ba1d37b70a2088c0"),

product\_name: 'Practical Fresh Sausages',

product\_material: 'Cotton'

},

{

\_id: ObjectId("65e02f24ba1d37b70a2088c1"),

product\_name: 'Refined Steel Car',

product\_material: 'Rubber'

},

{

\_id: ObjectId("65e02f24ba1d37b70a2088c2"),

product\_name: 'Gorgeous Plastic Pants',

product\_material: 'Soft'

},

{

\_id: ObjectId("65e02f24ba1d37b70a2088c3"),

product\_name: 'Sleek Cotton Chair',

product\_material: 'Fresh'

},

{

\_id: ObjectId("65e02f24ba1d37b70a2088c4"),

product\_name: 'Awesome Wooden Towels',

product\_material: 'Plastic'

},

{

\_id: ObjectId("65e02f24ba1d37b70a2088c5"),

product\_name: 'Practical Soft Shoes',

product\_material: 'Rubber'

},

{

\_id: ObjectId("65e02f24ba1d37b70a2088c6"),

product\_name: 'Incredible Steel Hat',

product\_material: 'Rubber'

},

{

\_id: ObjectId("65e02f24ba1d37b70a2088c7"),

product\_name: 'Awesome Wooden Ball',

product\_material: 'Soft'

},

{

\_id: ObjectId("65e02f24ba1d37b70a2088c8"),

product\_name: 'Generic Wooden Pizza',

product\_material: 'Frozen'

},

{

\_id: ObjectId("65e02f24ba1d37b70a2088c9"),

product\_name: 'Unbranded Wooden Cheese',

product\_material: 'Soft'

},

{

\_id: ObjectId("65e02f24ba1d37b70a2088ca"),

product\_name: 'Unbranded Plastic Salad',

product\_material: 'Wooden'

},

{

\_id: ObjectId("65e02f24ba1d37b70a2088cb"),

product\_name: 'Gorgeous Cotton Keyboard',

product\_material: 'Concrete'

},

{

\_id: ObjectId("65e02f24ba1d37b70a2088cc"),

product\_name: 'Incredible Steel Shirt',

product\_material: 'Metal'

},

{

\_id: ObjectId("65e02f24ba1d37b70a2088cd"),

product\_name: 'Ergonomic Cotton Hat',

product\_material: 'Rubber'

},

{

\_id: ObjectId("65e02f24ba1d37b70a2088ce"),

product\_name: 'Small Soft Chair',

product\_material: 'Cotton'

},

{

\_id: ObjectId("65e02f24ba1d37b70a2088cf"),

product\_name: 'Incredible Metal Car',

product\_material: 'Fresh'

},

{

\_id: ObjectId("65e02f24ba1d37b70a2088d0"),

product\_name: 'Licensed Plastic Bacon',

product\_material: 'Steel'

},

{

\_id: ObjectId("65e02f24ba1d37b70a2088d1"),

product\_name: 'Intelligent Cotton Chips',

product\_material: 'Soft'

},

{

\_id: ObjectId("65e02f24ba1d37b70a2088d2"),

product\_name: 'Handcrafted Wooden Bacon',

product\_material: 'Concrete'

}, {

\_id: ObjectId("65e02f24ba1d37b70a2088d3"),

product\_name: 'Unbranded Granite Chicken',

product\_material: 'Metal'

},

{

\_id: ObjectId("65e02f24ba1d37b70a2088d4"),

product\_name: 'Ergonomic Soft Hat',

product\_material: 'Rubber'

},

{

\_id: ObjectId("65e02f24ba1d37b70a2088d5"),

product\_name: 'Intelligent Steel Pizza',

product\_material: 'Cotton'

},

{

\_id: ObjectId("65e02f24ba1d37b70a2088d6"),

product\_name: 'Tasty Rubber Cheese',

product\_material: 'Frozen'

},

{

\_id: ObjectId("65e02f24ba1d37b70a2088d7"),

product\_name: 'Licensed Steel Car',

product\_material: 'Cotton'

}

]

**6.Find the product with a row id of 10**

**Query:**

**db.products.findOne({'id':'10'});**

**Output;**

{

\_id: ObjectId("65e02f24ba1d37b70a2088c8"),

id: '10',

product\_name: 'Generic Wooden Pizza',

product\_price: 84,

product\_material: 'Frozen',

product\_color: 'indigo'

}

**7.Find only the product name and product material**

**QUERY:**

**db.products.find(**

**{},**

**{'\_id':0,'product\_name':1,'product\_material':1}**

**);**

**Soluttion:**

[

{

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: 'Gorgeous Plastic Pants', product\_material: 'Soft' },

{ 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: }

{ product\_name: 'Sleek Cotton Chair', product\_material: 'F

{ product\_name: 'Unbranded Granite Chicken' },

{ product\_name: 'Ergonomic Soft Hat' },

{ product\_name: 'Intelligent Steel Pizza' },

{ product\_name: 'Tasty Rubber Cheese' },

{ product\_name: 'Licensed Steel Car' }

{ product\_name: 'Practical Soft Shoes', product\_material:}

]

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

**QUERY:**

**db.products.find({'product\_material':'Soft'});**

**OUTPUT:**

[

{

\_id: ObjectId("65e02f24ba1d37b70a2088c2"),

id: '4',

product\_name: 'Gorgeous Plastic Pants',

product\_price: 492,

product\_material: 'Soft',

product\_color: 'plum'

},

products>

\_id: ObjectId("65e02f24ba1d37b70a2088c7"),

id: '9',

product\_name: 'Awesome Wooden Ball',

product\_price: 28,

product\_material: 'Soft',

product\_color: 'azure'

},

{

\_id: ObjectId("65e02f24ba1d37b70a2088c9"),

id: '11',

product\_name: 'Unbranded Wooden Cheese',

product\_price: 26,

product\_material: 'Soft',

product\_color: 'black'

},

{

\_id: ObjectId("65e02f24ba1d37b70a2088d1"),

id: '19',

product\_name: 'Intelligent Cotton Chips',

product\_price: 46,

product\_material: 'Soft',

product\_color: 'azure'

}

]

**9. Find products which contain product color indigo  and product price 492.00**

**Query:**

db.products.find({$or:[{'product\_color':'indigo'},{'product\_price':492}]});

**OUTPUT:**

[

{

\_id: ObjectId("65e02f24ba1d37b70a2088c0"),

id: '2',

product\_name: 'Practical Fresh Sausages',

product\_price: 911,

product\_material: 'Cotton',

product\_color: 'indigo'

},

{

\_id: ObjectId("65e02f24ba1d37b70a2088c2"),

id: '4',

product\_name: 'Gorgeous Plastic Pants',

product\_price: 492,

product\_material: 'Soft',

product\_color: 'plum'

},

{

\_id: ObjectId("65e02f24ba1d37b70a2088c8"),

id: '10',

product\_name: 'Generic Wooden Pizza',

product\_price: 84,

product\_material: 'Frozen',

product\_color: 'indigo'

},

{

\_id: ObjectId("65e02f24ba1d37b70a2088cf"),

id: '17',

product\_name: 'Incredible Metal Car',

product\_price: 36,

product\_material: 'Fresh',

product\_color: 'indigo'

},

{

\_id: ObjectId("65e02f24ba1d37b70a2088d7"),

id: '25',

product\_name: 'Licensed Steel Car',

product\_price: 20,

product\_material: 'Cotton',

product\_color: 'indigo'

}

]

**10. Delete the products which product price value are same**

**QUERY:**

**let repeat =db.products\_new.distinct('product\_price');**

**repeat.forEach((price)=>{**

**let repeatPrice = db.products\_new.find({product\_price:price}).sort({'id':1}).skip(1);**

**repeatPrice.forEach((delDoc)=>**

**db.products.deleteOne({'id':delDoc.id})**

**)**

**})**