

RAJAGOPAL FSD55WD2

The Product documents are store in a JASzha Collection.

```
>use JASzha
```

1. Find all the information about each product:

```
> db.products.find()
```

```

// products
// new 10kts
// converted to 10 20kts
// @products final()
{
  // @productId="45f3d3c2a6d070736f4ee67f",
  // 10 10",
  product: {name: "Essential Fresh Onions",
    product: price 400,
    product: {material: "Concrete",
      product: color "lime green"
    }
  },

  // @productId="45f3d3c2a6d070736f4ee67f",
  // 10 10",
  product: {name: "Practical Fresh Onions",
    product: price 510,
    product: {material: "Cotton",
      product: color "orange"
    }
  },

  // @productId="45f3d3c2a6d070736f4ee67f",
  // 10 10",
  product: {name: "Refined Steel Car",
    product: price 800,
    product: {material: "Rubber",
      product: color "pink"
    }
  }
}

```

```

- @Injectable() @Inject('mongoose')
  private mongoose: Mongoose = null;

  ngOnInit(): void {
    this.mongoose.connect('mongodb://localhost:27020/');
    this.mongoose.Promise = Promise;
    this.mongoose.connection.on('error', console.log);
    this.mongoose.connection.on('open', () => console.log('MongoDB Connected'));
  }

  async createProduct(): Promise<Product> {
    const product = new Product({
      name: 'Sunglass',
      price: 40,
      material: 'Soft',
      color: 'Pink'
    });
    return await product.save();
  }

  async createProduct2(): Promise<Product> {
    const product = new Product({
      name: 'Sneak Cotton Shoes',
      price: 30,
      material: 'Firm',
      color: 'Black'
    });
    return await product.save();
  }

  async createProduct3(): Promise<Product> {
    const product = new Product({
      name: 'Denim Modern T-shirt',
      price: 40,
      material: 'Flastic',
      color: 'Orange'
    });
    return await product.save();
  }
}

```

```
<code></code>
```

```

        _HMODULE

    _M2 {ObjectOf(SOFTWARE\0077\Software)},
    M1 101',
    product_name "Unbranded Model Case",
    product_price 20,
    product_exterior["dark"],
    product_color "blue"
}

_M3 {ObjectOf(SOFTWARE\0077\Software)},
M1 101',
product_name "Unbranded Plastic Table",
product_price 30,
product_exterior["wooden"],
product_color "pink"
}

_M4 {ObjectOf(SOFTWARE\0077\Software)},
M1 101',
product_name "Garguous Center Keyboard",
product_price 35,
product_exterior["Concrete"],
product_color "sky blue"
}

_M5 {ObjectOf(SOFTWARE\0077\Software)},

```

```

}, JSON.stringify(
  {
    _id: ObjectId('5f59a7c2e017378af5e47e'),
    title: 'Chair',
    product_name: 'Decorative Steel Chair',
    product_price: 54,
    product_sku: 'Chair',
    product_color: 'white'
  }
)
{
  _id: ObjectId('5f59a7c2e017378af5e47e'),
  title: 'Chair',
  product_name: 'Ergonomic Cotton Mat',
  product_price: 45,
  product_sku: 'Chair',
  product_color: 'black'
}
{
  _id: ObjectId('5f59a7c2e017378af5e47e'),
  title: 'Chair',
  product_name: 'Small Sofa Chair',
  product_price: 47,
  product_sku: 'Chair',
  product_color: 'black'
}
{
  _id: ObjectId('5f59a7c2e017378af5e47e'),

```

[illegible]

```

1  #KONOSHI
2
3  ,let 0,jscl("6f996c9ae6777ba7aeac1"),
4  id "21",
5  product.name: "6Brand Brand Coffee",
6  product.price 0,
7  product.material: "Wood",
8  product.color: "gold"
9
10
11
12
13
14
15
16
17 ,let 0,jscl("6f996c9ae6777ba7aeac1"),
18 id "22",
19 product.name: "Ergonomic Soft Hat",
20 product.price 0,
21 product.material: "Nubuck",
22 product.color: "black"
23
24
25
26
27
28
29
30
31 ,let 0,jscl("6f996c9ae6777ba7aeac1"),
32 id "23",
33 product.name: "Full-grain Steel Pizza",
34 product.price 0,
35 product.material: "Cotton",
36 product.color: "green"
37
38
39
40
41
42
43
44
45 ,let 0,jscl("6f996c9ae6777ba7aeac1"),

```

[illegible]

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

```
> db.products.find( { product_price:{ $gt: 400, $lt:800 } } )
```

```
> MONQOSH
> db.products.find({product_price: { $gt: 400, $lt: 800 } })
< [
  {
    _id: ObjectId('65f58a2dae657577bbfeae4f'),
    id: '1',
    product_name: 'Intelligent Fresh Chips',
    product_price: 655,
    product_material: 'Concrete',
    product_color: 'mint green'
  },
  {
    _id: ObjectId('65f58ac0ae657577bbfeae51'),
    id: '3',
    product_name: 'Refined Steel Car',
    product_price: 690,
    product_material: 'Rubber',
    product_color: 'gold'
  },
  {
    _id: ObjectId('65f58b05ae657577bbfeae52'),
    id: '4',
    product_name: 'Gorgeous Plastic Pants',
    product_price: 492,
    product_material: 'Soft',
    product_color: 'plum'
  }
]
```

```
{
  _id: ObjectId('65f58b76ae657577bbfeae54'),
  id: '6',
  product_name: 'Awesome Wooden Towel',
  product_price: 474,
  product_material: 'Plastic',
  product_color: 'orange'
}
{
  _id: ObjectId('65f58d29ae657577bbfeae55'),
  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

```
> db.products.find( { $or : [ { product_price:{ $lt:400 } } , { product_price :
{ $gt:600 } } ] } ) .sort( { product_price:-1 } )
> it
```

```
> db.products.find( { $or : [ {product_price:{ $lt:400 } } , {product_price:{ $gt:600 } } ] } ) .sort({product_price:-1})
< [
  {
    _id: ObjectId('65f58a2dae657577bbfeae50'),
    id: '2',
    product_name: 'Practical Fresh Sausages',
    product_price: 911,
    product_material: 'Cotton',
    product_color: 'Indigo'
  },
  {
    _id: ObjectId('65f58ac0ae657577bbfeae51'),
    id: '3',
    product_name: 'Refined Steel Car',
    product_price: 690,
    product_material: 'Rubber',
    product_color: 'gold'
  },
  {
    _id: ObjectId('65f58a2dae657577bbfeae4f'),
    id: '1',
    product_name: 'Intelligent Fresh Chips',
    product_price: 655,
    product_material: 'Concrete',
    product_color: 'mint green'
  }
]
```

```
{
  _id: ObjectId('65f595c0ae657577bbfeae64'),
  id: '22',
  product_name: 'Ergonomic Soft Mat',
  product_price: 99,
  product_material: 'Rubber',
  product_color: 'black'
}
{
  _id: ObjectId('65f595c0ae657577bbfeae65'),
  id: '23',
  product_name: 'Intelligent Steel Pizza',
  product_price: 95,
  product_material: 'Cotton',
  product_color: 'azure'
}
{
  _id: ObjectId('65f595c0ae657577bbfeae63'),
  id: '21',
  product_name: 'Unbranded Granite Chicken',
  product_price: 90,
  product_material: 'Metal',
  product_color: 'gold'
}
```

```

{
  _id: ObjectId('65f5937cae657577bbfeae5a'),
  id: '12',
  product_name: 'Unbranded Plastic Salad',
  product_price: 89,
  product_material: 'Wooden',
  product_color: 'pink'
}
{
  _id: ObjectId('65f594c2ae657577bbfeae60'),
  id: '18',
  product_name: 'Licensed Palstic Bacon',
  product_price: 88,
  product_material: 'Steel',
  product_color: 'yellow'
}
{
  _id: ObjectId('65f58e37ae657577bbfeae58'),
  id: '10',
  product_name: 'Generic Wooden Pizza',
  product_price: 84,
  product_material: 'Frozen',
  product_color: 'indigo'
}
}

{
  _id: ObjectId('65f58d29ae657577bbfeae56'),
  id: '8',
  product_name: 'Incredible Steel Hat',
  product_price: 75,
  product_material: 'Rubber',
  product_color: 'violet'
}
{
  _id: ObjectId('65f5937cae657577bbfeae5c'),
  id: '14',
  product_name: 'Incredible Steel Shirt',
  product_price: 54,
  product_material: 'Metal',
  product_color: 'white'
}
{
  _id: ObjectId('65f594c2ae657577bbfeae5e'),
  id: '16',
  product_name: 'Small Soft Chair',
  product_price: 47,
  product_material: 'Cotton',
  product_color: 'teal'
}
}

{
  _id: ObjectId('65f595c0ae657577bbfeae66'),
  id: '24',
  product_name: 'Tasty Rubber Cheese',
  product_price: 47,
  product_material: 'Frozen',
  product_color: 'orchid'
}
{
  _id: ObjectId('65f594c2ae657577bbfeae61'),
  id: '19',
  product_name: 'Intelligent Cotton Chips',
  product_price: 46,
  product_material: 'Soft',
  product_color: 'azure'
}
{
  _id: ObjectId('65f5937cae657577bbfeae5d'),
  id: '15',
  product_name: 'Ergonomic Cotton Hat',
  product_price: 43,
  product_material: 'Rubber',
  product_color: 'mint green'
}
}

{
  _id: ObjectId('65f5937cae657577bbfeae5b'),
  id: '13',
  product_name: 'Gorgeous Cotton keyboard',
  product_price: 37,
  product_material: 'Concrete',
  product_color: 'sky blue'
}
{
  _id: ObjectId('65f594c2ae657577bbfeae5f'),
  id: '17',
  product_name: 'Incredible Metal Car',
  product_price: 36,
  product_material: 'Fresh',
  product_color: 'indigo'
}
{
  _id: ObjectId('65f594c2ae657577bbfeae62'),
  id: '20',
  product_name: 'Handcrafted Wooden Bacon',
  product_price: 36,
  product_material: 'Concrete',
  product_color: 'lime'
}
}

{
  _id: ObjectId('65f58b36ae657577bbfeae53'),
  id: '5',
  product_name: 'Sleek Cotton Chair',
  product_price: 33,
  product_material: 'Fresh',
  product_color: 'black'
}
{
  _id: ObjectId('65f58e37ae657577bbfeae57'),
  id: '9',
  product_name: 'Awesome Wooden Ball',
  product_price: 28,
  product_material: 'Soft',
  product_color: 'azure'
}
}

{
  _id: ObjectId('65f58e37ae657577bbfeae59'),
  id: '11',
  product_name: 'Unbranded Wooden Cheese',
  product_price: 26,
  product_material: 'Soft',
  product_color: 'black'
}
{
  _id: ObjectId('65f595c0ae657577bbfeae67'),
  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

```
> db.products.find( { product_price: { $gt: 500 } } )
.sort({product_price:1}).limit(4)
```

```

> db.products.find({product_price:{$gt:500}}).sort({product_price:1}).limit(4)
<
[
  {
    _id: ObjectId('65f58a2dae657577bbfeae4f'),
    id: '1',
    product_name: 'Intelligent Fresh Chips',
    product_price: 655,
    product_material: 'Concrete',
    product_color: 'mint green'
  },
  {
    _id: ObjectId('65f58ac0ae657577bbfeae51'),
    id: '3',
    product_name: 'Refined Steel Car',
    product_price: 690,
    product_material: 'Rubber',
    product_color: 'gold'
  },
  {
    _id: ObjectId('65f58a82ae657577bbfeae50'),
    id: '2',
    product_name: 'Practical Fresh Sausages',
    product_price: 911,
    product_material: 'Cotton',
    product_color: 'indigo'
  }
]

```

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

```
> db.products.find({"id":{"exists":1}}, {product_name:1,
product_material:1}).sort({product_name:1})
> it
```

```
>_MONGOOSH
> db.products.find({"id":{"exists":1}}, {product_name:1, product_material:1}).sort({product_name:1})
< {
  _id: ObjectId('65f58e37ae657577bbfeae57'),
  product_name: 'Awesome Wooden Ball',
  product_material: 'Soft'
}
{
  _id: ObjectId('65f58b76ae657577bbfeae54'),
  product_name: 'Awesome Wooden Towel',
  product_material: 'Plastic'
}
{
  _id: ObjectId('65f5937cae657577bbfeae5d'),
  product_name: 'Ergonomic Cotton Hat',
  product_material: 'Rubber'
}
{
  _id: ObjectId('65f595c0ae657577bbfeae64'),
  product_name: 'Ergonomic Soft Hat',
  product_material: 'Rubber'
}
{
  _id: ObjectId('65f58e37ae657577bbfeae58'),
  product_name: 'Generic Wooden Pizza',
  product_material: 'Frozen'
}
```

```
{
  _id: ObjectId('65f5937cae657577bbfeae5b'),
  product_name: 'Gorgeous Cotton keyboard',
  product_material: 'Concrete'
}
{
  _id: ObjectId('65f58b05ae657577bbfeae52'),
  product_name: 'Gorgeous Plastic Pants',
  product_material: 'Soft'
}
{
  _id: ObjectId('65f594c2ae657577bbfeae62'),
  product_name: 'Handcrafted Wooden Bacon',
  product_material: 'Concrete'
}
{
  _id: ObjectId('65f594c2ae657577bbfeae5f'),
  product_name: 'Incredible Metal Car',
  product_material: 'Fresh'
}
{
  _id: ObjectId('65f58d29ae657577bbfeae56'),
  product_name: 'Incredible Steel Hat',
  product_material: 'Rubber'
}
```

```
{
  _id: ObjectId('65f5937cae657577bbfeae5c'),
  product_name: 'Incredible Steel Shirt',
  product_material: 'Metal'
}
{
  _id: ObjectId('65f594c2ae657577bbfeae61'),
  product_name: 'Intelligent Cotton Chips',
  product_material: 'Soft'
}
{
  _id: ObjectId('65f58a2dae657577bbfeae4f'),
  product_name: 'Intelligent Fresh Chips',
  product_material: 'Concrete'
}
{
  _id: ObjectId('65f595c0ae657577bbfeae65'),
  product_name: 'Intelligent Steel Pizza',
  product_material: 'Cotton'
}
{
  _id: ObjectId('65f594c2ae657577bbfeae60'),
  product_name: 'Licensed Palstic Bacon',
  product_material: 'Steel'
}
```

```
{
  _id: ObjectId('65f595c0ae657577bbfeae67'),
  product_name: 'Licensed Steel Car',
  product_material: 'Cotton'
}
{
  _id: ObjectId('65f58a82ae657577bbfeae50'),
  product_name: 'Practical Fresh Sausages',
  product_material: 'Cotton'
}
{
  _id: ObjectId('65f58d29ae657577bbfeae55'),
  product_name: 'Practical Soft Shoes',
  product_material: 'Rubber'
}
{
  _id: ObjectId('65f58ac0ae657577bbfeae51'),
  product_name: 'Refined Steel Car',
  product_material: 'Rubber'
}
{
  _id: ObjectId('65f58b36ae657577bbfeae53'),
  product_name: 'Sleek Cotton Chair',
  product_material: 'Fresh'
}
```

```
> it
< {
  _id: ObjectId('65f594c2ae657577bbfeae5e'),
  product_name: 'Small Soft Chair',
  product_material: 'Cotton'
}
{
  _id: ObjectId('65f595c0ae657577bbfeae66'),
  product_name: 'Tasty Rubber Cheese',
  product_material: 'Frozen'
}
{
  _id: ObjectId('65f595c0ae657577bbfeae63'),
  product_name: 'Unbranded Granite Chicken',
  product_material: 'Metal'
}
{
  _id: ObjectId('65f5937cae657577bbfeae5a'),
  product_name: 'Unbranded Plastic Salad',
  product_material: 'Wooden'
}
{
  _id: ObjectId('65f58e37ae657577bbfeae59'),
  product_name: 'Unbranded Wooden Cheese',
  product_material: 'Soft'
}
```

6. Find the product with a row id of 10

```
> db.products.find( { id : "10" } )
```

```
> db.products.find({id:"10"})
< {
  _id: ObjectId('65f58e37ae657577bbfeae58'),
  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

```
> db.products.find( { }, {product_name:1,product_material:1,_id:0})
```

```
>_MONGOSH
> db.products.find({}, { "product_name": 1, "product_material": 1, "_id": 0 }).sort({product_name:1})
< {
  product_name: 'Awesome Wooden Ball',
  product_material: 'Soft'
}
{
  product_name: 'Awesome Wooden Towel',
  product_material: 'Plastic'
}
{
  product_name: 'Ergonomic Cotton Hat',
  product_material: 'Rubber'
}
{
  product_name: 'Ergonomic Soft Hat',
  product_material: 'Rubber'
}
{
  product_name: 'Generic Wooden Pizza',
  product_material: 'Frozen'
}
{
  product_name: 'Gorgeous Cotton keyboard',
  product_material: 'Concrete'
}
```

```
>_MONGOSH
{
  product_name: 'Gorgeous Plastic Pants',
  product_material: 'Soft'
}
{
  product_name: 'Handcrafted Wooden Bacon',
  product_material: 'Concrete'
}
{
  product_name: 'Incredible Metal Car',
  product_material: 'Fresh'
}
{
  product_name: 'Incredible Steel Hat',
  product_material: 'Rubber'
}
{
  product_name: 'Incredible Steel Shirt',
  product_material: 'Metal'
}
{
  product_name: 'Intelligent Cotton Chips',
  product_material: 'Soft'
}
```



```

>_MONGOSH
{
  product_name: 'Intelligent Fresh Chips',
  product_material: 'Concrete'
}
{
  product_name: 'Intelligent Steel Pizza',
  product_material: 'Cotton'
}
{
  product_name: 'Licensed Palstic Bacon',
  product_material: 'Steel'
}
{
  product_name: 'Licensed Steel Car',
  product_material: 'Cotton'
}
{
  product_name: 'Practical Fresh Sausages',
  product_material: 'Cotton'
}
{
  product_name: 'Practical Soft Shoes',
  product_material: 'Rubber'
}
{
  product_name: 'Refined Steel Car',
  product_material: 'Rubber'
}
}

>_MONGOSH
{
  product_name: 'Sleek Cotton Chair',
  product_material: 'Fresh'
}
}
Type "it" for more
> it
< {
  product_name: 'Small Soft Chair',
  product_material: 'Cotton'
}
{
  product_name: 'Tasty Rubber Cheese',
  product_material: 'Frozen'
}
{
  product_name: 'Unbranded Granite Chicken',
  product_material: 'Metal'
}
{
  product_name: 'Unbranded Plastic Salad',
  product_material: 'Wooden'
}
{
  product_name: 'Unbranded Wooden Cheese',
  product_material: 'Soft'
}
}
JASzha>

```

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

> db.products.find({ product_material : "Soft" })

```

> db.products.find({product_material:"Soft"})
< {
  _id: ObjectId('65f58b05ae657577bbfeae52'),
  id: '4',
  product_name: 'Gorgeous Plastic Pants',
  product_price: 492,
  product_material: 'Soft',
  product_color: 'plum'
}
{
  _id: ObjectId('65f58e37ae657577bbfeae57'),
  id: '9',
  product_name: 'Awesome Wooden Ball',
  product_price: 28,
  product_material: 'Soft',
  product_color: 'azure'
}
}

{
  _id: ObjectId('65f58e37ae657577bbfeae59'),
  id: '11',
  product_name: 'Unbranded Wooden Cheese',
  product_price: 26,
  product_material: 'Soft',
  product_color: 'black'
}
{
  _id: ObjectId('65f594c2ae657577bbfeae61'),
  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

```
> db.products.find ( { product_color: "indigo", product_price:492 } )
```

No one product not available color in indigo and price 492

```
>_MONGOSH
```

```
> db.products.find( { product_price:492 , product_color:"indigo" } )  
<  
JASzha >
```

10. Delete the products which product price value are same