

RAJAGOPAL FSD55WD2

The Product documents are store in a JASzha Collection.

```
>use JASzha
```

1.Find all the information about each product:

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

[illegible]

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

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

```
> MONGODB
> 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('65f58a82ae657577bbfeae50'),
  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 Hat',
  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
```

```
>_MONOGOSH
> 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

JASzha > db.products.find({ id : "10" }) // id data type is string

```
> 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