RAJAGOPAL FSD55WD2
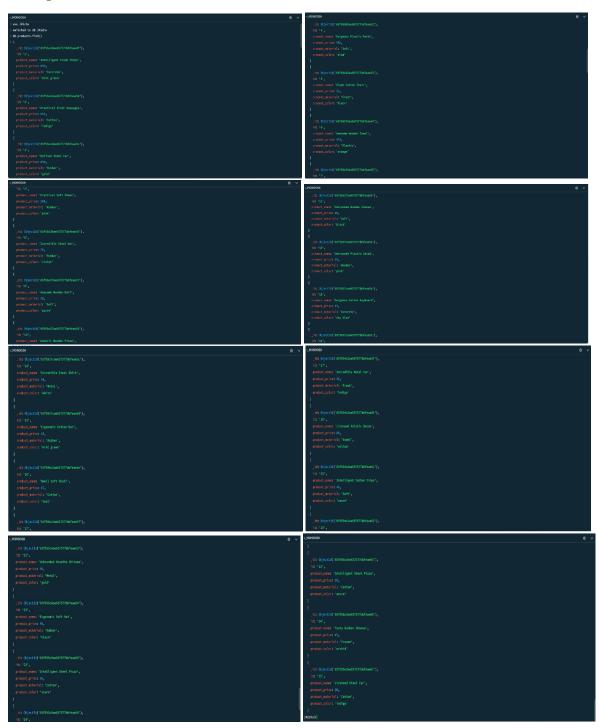
The Product documents are store in a JASzha Collection.

1.Find all the information about each product:

> db.products.find()

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

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

```
>_MONGOSH

> 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
```

```
>_MONGOSH
> 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