**INPUT DATA:**

[

{

"id": "1",

"product\_name": "Intelligent Fresh Chips",

"product\_price": 655.00,

"product\_material": "Concrete",

"product\_color": "mint green"

},

{

"id": "2",

"product\_name": "Practical Fresh Sausages",

"product\_price": 911.0,

"product\_material": "Cotton",

"product\_color": "indigo"

},

{

"id": "3",

"product\_name": "Refined Steel Car",

"product\_price": 690.00,

"product\_material": "Rubber",

"product\_color": "gold"

},

{

"id": "4",

"product\_name": "Gorgeous Plastic Pants",

"product\_price": 492.00,

"product\_material": "Soft",

"product\_color": "plum"

},

{

"id": "5",

"product\_name": "Sleek Cotton Chair",

"product\_price": 33.00,

"product\_material": "Fresh",

"product\_color": "black"

},

{

"id": "6",

"product\_name": "Awesome Wooden Towels",

"product\_price": 474.00,

"product\_material": "Plastic",

"product\_color": "orange"

},

{

"id": "7",

"product\_name": "Practical Soft Shoes",

"product\_price": 500.00,

"product\_material": "Rubber",

"product\_color": "pink"

},

{

"id": "8",

"product\_name": "Incredible Steel Hat",

"product\_price": 78.00,

"product\_material": "Rubber",

"product\_color": "violet"

},

{

"id": "9",

"product\_name": "Awesome Wooden Ball",

"product\_price": 28.00,

"product\_material": "Soft",

"product\_color": "azure"

},

{

"id": "10",

"product\_name": "Generic Wooden Pizza",

"product\_price": 84.00,

"product\_material": "Frozen",

"product\_color": "indigo"

},

{

"id": "11",

"product\_name": "Unbranded Wooden Cheese",

"product\_price":26.00,

"product\_material": "Soft",

"product\_color": "black"

},

{

"id": "12",

"product\_name": "Unbranded Plastic Salad",

"product\_price": 89.00,

"product\_material": "Wooden",

"product\_color": "pink"

},

{

"id": "13",

"product\_name": "Gorgeous Cotton Keyboard",

"product\_price": 37.00,

"product\_material": "Concrete",

"product\_color": "sky blue"

},

{

"id": "14",

"product\_name": "Incredible Steel Shirt",

"product\_price": 54.00,

"product\_material": "Metal",

"product\_color": "white"

},

{

"id": "15",

"product\_name": "Ergonomic Cotton Hat",

"product\_price": 43.00,

"product\_material": "Rubber",

"product\_color": "mint green"

},

{

"id": "16",

"product\_name": "Small Soft Chair",

"product\_price": 47.00,

"product\_material": "Cotton",

"product\_color": "teal"

},

{

"id": "17",

"product\_name": "Incredible Metal Car",

"product\_price":36.00,

"product\_material": "Fresh",

"product\_color": "indigo"

},

{

"id": "18",

"product\_name": "Licensed Plastic Bacon",

"product\_price":88.00,

"product\_material": "Steel",

"product\_color": "yellow"

},

{

"id": "19",

"product\_name": "Intelligent Cotton Chips",

"product\_price": 46.00,

"product\_material": "Soft",

"product\_color": "azure"

},

{

"id": "20",

"product\_name": "Handcrafted Wooden Bacon",

"product\_price": 36.00,

"product\_material": "Concrete",

"product\_color": "lime"

},

{

"id": "21",

"product\_name": "Unbranded Granite Chicken",

"product\_price": 90.00,

"product\_material": "Metal",

"product\_color": "gold"

},

{

"id": "22",

"product\_name": "Ergonomic Soft Hat",

"product\_price": 99.00,

"product\_material": "Rubber",

"product\_color": "black"

},

{

"id": "23",

"product\_name": "Intelligent Steel Pizza",

"product\_price": 95.00,

"product\_material": "Cotton",

"product\_color": "azure"

},

{

"id": "24",

"product\_name": "Tasty Rubber Cheese",

"product\_price":47.00,

"product\_material": "Frozen",

"product\_color": "orchid"

},

{

"id": "25",

"product\_name": "Licensed Steel Car",

"product\_price":20.00,

"product\_material": "Cotton",

"product\_color": "indigo"

}

]

1. Find all the information about each products

db.product.find()

|  |
| --- |
| { \_id: ObjectId(**"63076b04475cf823f12f956b"**), |
| id: **'1'**, |
| product\_name: **'Intelligent Fresh Chips'**, |
| product\_price: 655, |
| product\_material: **'Concrete'**, |
| product\_color: **'mint green'** } |
| { \_id: ObjectId(**"63076b04475cf823f12f956c"**), |
| id: **'2'**, |
| product\_name: **'Practical Fresh Sausages'**, |
| product\_price: 911, |
| product\_material: **'Cotton'**, |
| product\_color: **'indigo'** } |

|  |
| --- |
| { \_id: ObjectId(**"63076b04475cf823f12f956d"**), |
| id: **'3'**, |
| product\_name: **'Refined Steel Car'**, |
| product\_price: 690, |
| product\_material: **'Rubber'**, |
| product\_color: **'gold'** } |
| { \_id: ObjectId(**"63076b04475cf823f12f956e"**), |
| id: **'4'**, |
| product\_name: **'Gorgeous Plastic Pants'**, |
| product\_price: 492, |
| product\_material: **'Soft'**, |
| product\_color: **'plum'** } |

|  |
| --- |
| { \_id: ObjectId(**"63076b04475cf823f12f956f"**), |
| id: **'5'**, |
| product\_name: **'Sleek Cotton Chair'**, |
| product\_price: 33, |
| product\_material: **'Fresh'**, |
| product\_color: **'black'** } |
| { \_id: ObjectId(**"63076b04475cf823f12f9570"**), |
| id: **'6'**, |
| product\_name: **'Awesome Wooden Towels'**, |
| product\_price: 474, |
| product\_material: **'Plastic'**, |
| product\_color: **'orange'** } |

|  |
| --- |
| { \_id: ObjectId(**"63076b04475cf823f12f9571"**), |
| id: **'7'**, |
| product\_name: **'Practical Soft Shoes'**, |
| product\_price: 500, |
| product\_material: **'Rubber'**, |
| product\_color: **'pink'** } |
| { \_id: ObjectId(**"63076b04475cf823f12f9572"**), |
| id: **'8'**, |
| product\_name: **'Incredible Steel Hat'**, |
| product\_price: 78, |
| product\_material: **'Rubber'**, |
| product\_color: **'violet'** } |

|  |
| --- |
| { \_id: ObjectId(**"63076b04475cf823f12f9573"**), |
| id: **'9'**, |
| product\_name: **'Awesome Wooden Ball'**, |
| product\_price: 28, |
| product\_material: **'Soft'**, |
| product\_color: **'azure'** } |
| { \_id: ObjectId(**"63076b04475cf823f12f9574"**), |
| id: **'10'**, |
| product\_name: **'Generic Wooden Pizza'**, |
| product\_price: 84, |
| product\_material: **'Frozen'**, |
| product\_color: **'indigo'** } |

|  |
| --- |
| { \_id: ObjectId(**"63076b04475cf823f12f9575"**), |
| id: **'11'**, |
| product\_name: **'Unbranded Wooden Cheese'**, |
| product\_price: 26, |
| product\_material: **'Soft'**, |
| product\_color: **'black'** } |
| { \_id: ObjectId(**"63076b04475cf823f12f9576"**), |
| id: **'12'**, |
| product\_name: **'Unbranded Plastic Salad'**, |
| product\_price: 89, |
| product\_material: **'Wooden'**, |
| product\_color: **'pink'** } |

|  |
| --- |
| { \_id: ObjectId(**"63076b04475cf823f12f9577"**), |
| id: **'13'**, |
| product\_name: **'Gorgeous Cotton Keyboard'**, |
| product\_price: 37, |
| product\_material: **'Concrete'**, |
| product\_color: **'sky blue'** } |
| { \_id: ObjectId(**"63076b04475cf823f12f9578"**), |
| id: **'14'**, |
| product\_name: **'Incredible Steel Shirt'**, |
| product\_price: 54, |
| product\_material: **'Metal'**, |
| product\_color: **'white'** } |

|  |
| --- |
| { \_id: ObjectId(**"63076b04475cf823f12f9579"**), |
| id: **'15'**, |
| product\_name: **'Ergonomic Cotton Hat'**, |
| product\_price: 43, |
| product\_material: **'Rubber'**, |
| product\_color: **'mint green'** } |
| { \_id: ObjectId(**"63076b04475cf823f12f957a"**), |
| id: **'16'**, |
| product\_name: **'Small Soft Chair'**, |
| product\_price: 47, |
| product\_material: **'Cotton'**, |
| product\_color: **'teal'** } |

|  |
| --- |
| { \_id: ObjectId(**"63076b04475cf823f12f957b"**), |
| id: **'17'**, |
| product\_name: **'Incredible Metal Car'**, |
| product\_price: 36, |
| product\_material: **'Fresh'**, |
| product\_color: **'indigo'** } |
| { \_id: ObjectId(**"63076b04475cf823f12f957c"**), |
| id: **'18'**, |
| product\_name: **'Licensed Plastic Bacon'**, |
| product\_price: 88, |
| product\_material: **'Steel'**, |
| product\_color: **'yellow'** } |

|  |
| --- |
| { \_id: ObjectId(**"63076b04475cf823f12f957d"**), |
| id: **'19'**, |
| product\_name: **'Intelligent Cotton Chips'**, |
| product\_price: 46, |
| product\_material: **'Soft'**, |
| product\_color: **'azure'** } |
| { \_id: ObjectId(**"63076b04475cf823f12f957e"**), |
| id: **'20'**, |
| product\_name: **'Handcrafted Wooden Bacon'**, |
| product\_price: 36, |
| product\_material: **'Concrete'**, |
| product\_color: **'lime'** } |

1. db.product.find()
2. Find the product price which are between 400 to 800

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

|  |
| --- |
| { \_id: ObjectId(**"63076b04475cf823f12f956b"**), |
| id: **'1'**, |
| product\_name: **'Intelligent Fresh Chips'**, |
| product\_price: 655, |
| product\_material: **'Concrete'**, |
| product\_color: **'mint green'** } |
| { \_id: ObjectId(**"63076b04475cf823f12f956d"**), |
| id: **'3'**, |
| product\_name: **'Refined Steel Car'**, |
| product\_price: 690, |
| product\_material: **'Rubber'**, |
| product\_color: **'gold'** } |

|  |
| --- |
| { \_id: ObjectId(**"63076b04475cf823f12f956e"**), |
| id: **'4'**, |
| product\_name: **'Gorgeous Plastic Pants'**, |
| product\_price: 492, |
| product\_material: **'Soft'**, |
| product\_color: **'plum'** } |
| { \_id: ObjectId(**"63076b04475cf823f12f9570"**), |
| id: **'6'**, |
| product\_name: **'Awesome Wooden Towels'**, |
| product\_price: 474, |
| product\_material: **'Plastic'**, |
| product\_color: **'orange'** } |

|  |
| --- |
| { \_id: ObjectId(**"63076b04475cf823f12f9571"**), |
| id: **'7'**, |
| product\_name: **'Practical Soft Shoes'**, |
| product\_price: 500, |
| product\_material: **'Rubber'**, |
| product\_color: **'pink'** } |

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

db.product.find({product\_price:{$gt:500}}).sort({product\_price:1}).limit(4)

|  |
| --- |
| { \_id: ObjectId(**"63076b04475cf823f12f956b"**), |
| id: **'1'**, |
| product\_name: **'Intelligent Fresh Chips'**, |
| product\_price: 655, |
| product\_material: **'Concrete'**, |
| product\_color: **'mint green'** } |
| { \_id: ObjectId(**"63076b04475cf823f12f956d"**), |
| id: **'3'**, |
| product\_name: **'Refined Steel Car'**, |
| product\_price: 690, |
| product\_material: **'Rubber'**, |
| product\_color: **'gold'** } |

|  |
| --- |
| { \_id: ObjectId(**"63076b04475cf823f12f956c"**), |
| id: **'2'**, |
| product\_name: **'Practical Fresh Sausages'**, |
| product\_price: 911, |
| product\_material: **'Cotton'**, |
| product\_color: **'indigo'** } |

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

const title = [];

db.product.find().forEach(({product\_name,product\_material}) => (title.push(`product\_name:${product\_name},product\_material:${product\_material}`)));

console.log(title)

|  |
| --- |
| [ **'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:Concrete'**, |
| **'product\_name:Unbranded Granite Chicken,product\_material:Metal'**, |
| **'product\_name:Ergonomic Soft Hat,product\_material:Rubber'**, |
| **'product\_name:Intelligent Steel Pizza,product\_material:Cotton'**, |
| **'product\_name:Tasty Rubber Cheese,product\_material:Frozen'**, |
| **'product\_name:Licensed Steel Car,product\_material:Cotton'** ] |

1. Find the product with a row id of 10

db.product.find({id:"10"})

|  |
| --- |
| { \_id: ObjectId(**"63076b04475cf823f12f9574"**), |
| id: **'10'**, |
| product\_name: **'Generic Wooden Pizza'**, |
| product\_price: 84, |
| product\_material: **'Frozen'**, |
| product\_color: **'indigo'** } |

1. Find only the product name and product material

const title = [];

db.product.find().forEach(({product\_name,product\_material}) => (title.push(`product\_name:${product\_name},product\_material:${product\_material}`)));

console.log(title)

|  |
| --- |
| [ **'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:Concrete'**, |
| **'product\_name:Unbranded Granite Chicken,product\_material:Metal'**, |
| **'product\_name:Ergonomic Soft Hat,product\_material:Rubber'**, |
| **'product\_name:Intelligent Steel Pizza,product\_material:Cotton'**, |
| **'product\_name:Tasty Rubber Cheese,product\_material:Frozen'**, |
| **'product\_name:Licensed Steel Car,product\_material:Cotton'** ] |

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

db.product.find({product\_material:"Soft"})

|  |
| --- |
| { \_id: ObjectId(**"63076b04475cf823f12f956e"**), |
| id: **'4'**, |
| product\_name: **'Gorgeous Plastic Pants'**, |
| product\_price: 492, |
| product\_material: **'Soft'**, |
| product\_color: **'plum'** } |
| { \_id: ObjectId(**"63076b04475cf823f12f9573"**), |
| id: **'9'**, |
| product\_name: **'Awesome Wooden Ball'**, |
| product\_price: 28, |
| product\_material: **'Soft'**, |
| product\_color: **'azure'** } |

|  |
| --- |
| { \_id: ObjectId(**"63076b04475cf823f12f9575"**), |
| id: **'11'**, |
| product\_name: **'Unbranded Wooden Cheese'**, |
| product\_price: 26, |
| product\_material: **'Soft'**, |
| product\_color: **'black'** } |
| { \_id: ObjectId(**"63076b04475cf823f12f957d"**), |
| id: **'19'**, |
| product\_name: **'Intelligent Cotton Chips'**, |
| product\_price: 46, |
| product\_material: **'Soft'**, |
| product\_color: **'azure'** } |

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

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