**ANSWERS:**

**Short:**

1. db.products.find()
2. db.products.find({ "product\_price" : {$gt: 399, $lt:801}})
3. db.products.find({"product\_price": {$not:{$gt:399, $lt:601}}})
4. db.products.find({"product\_price" :{$gt:500}}).limit(4)
5. db.products.find({},{product\_name:1,product\_material:1})
6. db.products.find({id:'10'})
7. db.products.find({},{product\_name:1,product\_material:1,\_id:0})
8. db.products.find({product\_material: {$in: ['Soft']}})
9. db.products.find({product\_price:492,product\_color:"Indigo"})
10. db.products.aggregate([{$group: {\_id:{price:'$product\_price'}, product\_ids: {$addToSet:'$id'},count:{$sum:1}}}, {$match:{count:{$gte:2}}}]).forEach(row => {print('Products with Duplicate price : ' , row.product\_ids); row.product\_ids.shift(); print('Product Id to be removed :',row.product\_ids); db.products.remove({id:{$in: row.product\_ids}})})

**1. db.products.find()**

[

{

\_id: ObjectId("64439f9aa1277ab1cd2c79d0"),

id: '1',

product\_name: 'Intelligent Fresh Chips',

product\_price: 655,

product\_material: 'Concrete',

product\_color: 'mint green'

},

{

\_id: ObjectId("64439f9aa1277ab1cd2c79d1"),

id: '2',

product\_name: 'Practical Fresh Sausages',

product\_price: 911,

product\_material: 'Cotton',

product\_color: 'indigo'

},

{

\_id: ObjectId("64439f9aa1277ab1cd2c79d2"),

id: '3',

product\_name: 'Refined Steel Car',

product\_price: 690,

product\_material: 'Rubber',

product\_color: 'gold'

},

{

\_id: ObjectId("64439f9aa1277ab1cd2c79d3"),

id: '4',

product\_name: 'Gorgeous Plastic Pants',

product\_price: 492,

product\_material: 'Soft',

product\_color: 'plum'

},

{

\_id: ObjectId("64439f9aa1277ab1cd2c79d4"),

id: '5',

product\_name: 'Sleek Cotton Chair',

product\_price: 33,

product\_material: 'Fresh',

product\_color: 'black'

},

{

\_id: ObjectId("64439f9aa1277ab1cd2c79d5"),

id: '6',

product\_name: 'Awesome Wooden Towels',

product\_price: 474,

product\_material: 'Plastic',

product\_color: 'orange'

},

{

\_id: ObjectId("64439f9aa1277ab1cd2c79d6"),

id: '7',

product\_name: 'Practical Soft Shoes',

product\_price: 500,

product\_material: 'Rubber',

product\_color: 'pink'

},

{

\_id: ObjectId("64439f9aa1277ab1cd2c79d7"),

id: '8',

product\_name: 'Incredible Steel Hat',

product\_price: 78,

product\_material: 'Rubber',

product\_color: 'violet'

},

{

\_id: ObjectId("64439f9aa1277ab1cd2c79d8"),

id: '9',

product\_name: 'Awesome Wooden Ball',

product\_price: 28,

product\_material: 'Soft',

product\_color: 'azure'

},

{

\_id: ObjectId("64439f9aa1277ab1cd2c79d9"),

id: '10',

product\_name: 'Generic Wooden Pizza',

product\_price: 84,

product\_material: 'Frozen',

product\_color: 'indigo'

},

{

\_id: ObjectId("64439f9aa1277ab1cd2c79da"),

id: '11',

product\_name: 'Unbranded Wooden Cheese',

product\_price: 26,

product\_material: 'Soft',

product\_color: 'black'

},

{

\_id: ObjectId("64439f9aa1277ab1cd2c79db"),

id: '12',

product\_name: 'Unbranded Plastic Salad',

product\_price: 89,

product\_material: 'Wooden',

product\_color: 'pink'

},

{

\_id: ObjectId("64439f9aa1277ab1cd2c79dc"),

id: '13',

product\_name: 'Gorgeous Cotton Keyboard',

product\_price: 37,

product\_material: 'Concrete',

product\_color: 'sky blue'

},

{

\_id: ObjectId("64439f9aa1277ab1cd2c79dd"),

id: '14',

product\_name: 'Incredible Steel Shirt',

product\_price: 54,

product\_material: 'Metal',

product\_color: 'white'

},

{

\_id: ObjectId("64439f9aa1277ab1cd2c79de"),

id: '15',

product\_name: 'Ergonomic Cotton Hat',

product\_price: 43,

product\_material: 'Rubber',

product\_color: 'mint green'

},

{

\_id: ObjectId("64439f9aa1277ab1cd2c79df"),

id: '16',

product\_name: 'Small Soft Chair',

product\_price: 47,

product\_material: 'Cotton',

product\_color: 'teal'

},

{

\_id: ObjectId("64439f9aa1277ab1cd2c79e0"),

id: '17',

product\_name: 'Incredible Metal Car',

product\_price: 36,

product\_material: 'Fresh',

product\_color: 'indigo'

},

{

\_id: ObjectId("64439f9aa1277ab1cd2c79e1"),

id: '18',

product\_name: 'Licensed Plastic Bacon',

product\_price: 88,

product\_material: 'Steel',

product\_color: 'yellow'

},

{

\_id: ObjectId("64439f9aa1277ab1cd2c79e2"),

id: '19',

product\_name: 'Intelligent Cotton Chips',

product\_price: 46,

product\_material: 'Soft',

product\_color: 'azure'

},

{

\_id: ObjectId("64439f9aa1277ab1cd2c79e3"),

id: '20',

product\_name: 'Handcrafted Wooden Bacon',

product\_price: 36,

product\_material: 'Concrete',

product\_color: 'lime'

}

]

**2. db.products.find({ "product\_price" : {$gt: 399, $lt:801}})**

[

{

\_id: ObjectId("64439f9aa1277ab1cd2c79d0"),

id: '1',

product\_name: 'Intelligent Fresh Chips',

product\_price: 655,

product\_material: 'Concrete',

product\_color: 'mint green'

},

{

\_id: ObjectId("64439f9aa1277ab1cd2c79d2"),

id: '3',

product\_name: 'Refined Steel Car',

product\_price: 690,

product\_material: 'Rubber',

product\_color: 'gold'

},

{

\_id: ObjectId("64439f9aa1277ab1cd2c79d3"),

id: '4',

product\_name: 'Gorgeous Plastic Pants',

product\_price: 492,

product\_material: 'Soft',

product\_color: 'plum'

},

{

\_id: ObjectId("64439f9aa1277ab1cd2c79d5"),

id: '6',

product\_name: 'Awesome Wooden Towels',

product\_price: 474,

product\_material: 'Plastic',

product\_color: 'orange'

},

{

\_id: ObjectId("64439f9aa1277ab1cd2c79d6"),

id: '7',

product\_name: 'Practical Soft Shoes',

product\_price: 500,

product\_material: 'Rubber',

product\_color: 'pink'

}

]

1. db.products.find({"product\_price": {$not:{$gt:399, $lt:601}}})

[

{

\_id: ObjectId("64439f9aa1277ab1cd2c79d0"),

id: '1',

product\_name: 'Intelligent Fresh Chips',

product\_price: 655,

product\_material: 'Concrete',

product\_color: 'mint green'

},

{

\_id: ObjectId("64439f9aa1277ab1cd2c79d1"),

id: '2',

product\_name: 'Practical Fresh Sausages',

product\_price: 911,

product\_material: 'Cotton',

product\_color: 'indigo'

},

{

\_id: ObjectId("64439f9aa1277ab1cd2c79d2"),

id: '3',

product\_name: 'Refined Steel Car',

product\_price: 690,

product\_material: 'Rubber',

product\_color: 'gold'

},

{

\_id: ObjectId("64439f9aa1277ab1cd2c79d4"),

id: '5',

product\_name: 'Sleek Cotton Chair',

product\_price: 33,

product\_material: 'Fresh',

product\_color: 'black'

},

{

\_id: ObjectId("64439f9aa1277ab1cd2c79d7"),

id: '8',

product\_name: 'Incredible Steel Hat',

product\_price: 78,

product\_material: 'Rubber',

product\_color: 'violet'

},

{

\_id: ObjectId("64439f9aa1277ab1cd2c79d8"),

id: '9',

product\_name: 'Awesome Wooden Ball',

product\_price: 28,

product\_material: 'Soft',

product\_color: 'azure'

},

{

\_id: ObjectId("64439f9aa1277ab1cd2c79d9"),

id: '10',

product\_name: 'Generic Wooden Pizza',

product\_price: 84,

product\_material: 'Frozen',

product\_color: 'indigo'

},

{

\_id: ObjectId("64439f9aa1277ab1cd2c79da"),

id: '11',

product\_name: 'Unbranded Wooden Cheese',

product\_price: 26,

product\_material: 'Soft',

product\_color: 'black'

},

{

\_id: ObjectId("64439f9aa1277ab1cd2c79db"),

id: '12',

product\_name: 'Unbranded Plastic Salad',

product\_price: 89,

product\_material: 'Wooden',

product\_color: 'pink'

},

{

\_id: ObjectId("64439f9aa1277ab1cd2c79dc"),

id: '13',

product\_name: 'Gorgeous Cotton Keyboard',

product\_price: 37,

product\_material: 'Concrete',

product\_color: 'sky blue'

},

{

\_id: ObjectId("64439f9aa1277ab1cd2c79dd"),

id: '14',

product\_name: 'Incredible Steel Shirt',

product\_price: 54,

product\_material: 'Metal',

product\_color: 'white'

},

{

\_id: ObjectId("64439f9aa1277ab1cd2c79de"),

id: '15',

product\_name: 'Ergonomic Cotton Hat',

product\_price: 43,

product\_material: 'Rubber',

product\_color: 'mint green'

},

{

\_id: ObjectId("64439f9aa1277ab1cd2c79df"),

id: '16',

product\_name: 'Small Soft Chair',

product\_price: 47,

product\_material: 'Cotton',

product\_color: 'teal'

},

{

\_id: ObjectId("64439f9aa1277ab1cd2c79e0"),

id: '17',

product\_name: 'Incredible Metal Car',

product\_price: 36,

product\_material: 'Fresh',

product\_color: 'indigo'

},

{

\_id: ObjectId("64439f9aa1277ab1cd2c79e1"),

id: '18',

product\_name: 'Licensed Plastic Bacon',

product\_price: 88,

product\_material: 'Steel',

product\_color: 'yellow'

},

{

\_id: ObjectId("64439f9aa1277ab1cd2c79e2"),

id: '19',

product\_name: 'Intelligent Cotton Chips',

product\_price: 46,

product\_material: 'Soft',

product\_color: 'azure'

},

{

\_id: ObjectId("64439f9aa1277ab1cd2c79e3"),

id: '20',

product\_name: 'Handcrafted Wooden Bacon',

product\_price: 36,

product\_material: 'Concrete',

product\_color: 'lime'

},

{

\_id: ObjectId("64439f9aa1277ab1cd2c79e4"),

id: '21',

product\_name: 'Unbranded Granite Chicken',

product\_price: 90,

product\_material: 'Metal',

product\_color: 'gold'

},

{

\_id: ObjectId("64439f9aa1277ab1cd2c79e5"),

id: '22',

product\_name: 'Ergonomic Soft Hat',

product\_price: 99,

product\_material: 'Rubber',

product\_color: 'black'

},

{

\_id: ObjectId("64439f9aa1277ab1cd2c79e6"),

id: '23',

product\_name: 'Intelligent Steel Pizza',

product\_price: 95,

product\_material: 'Cotton',

product\_color: 'azure'

}

]

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

[

{

\_id: ObjectId("64439f9aa1277ab1cd2c79d0"),

id: '1',

product\_name: 'Intelligent Fresh Chips',

product\_price: 655,

product\_material: 'Concrete',

product\_color: 'mint green'

},

{

\_id: ObjectId("64439f9aa1277ab1cd2c79d1"),

id: '2',

product\_name: 'Practical Fresh Sausages',

product\_price: 911,

product\_material: 'Cotton',

product\_color: 'indigo'

},

{

\_id: ObjectId("64439f9aa1277ab1cd2c79d2"),

id: '3',

product\_name: 'Refined Steel Car',

product\_price: 690,

product\_material: 'Rubber',

product\_color: 'gold'

}

]

5.db.products.find({},{product\_name:1,product\_material:1})

[

{

\_id: ObjectId("64439f9aa1277ab1cd2c79d0"),

product\_name: 'Intelligent Fresh Chips',

product\_material: 'Concrete'

},

{

\_id: ObjectId("64439f9aa1277ab1cd2c79d1"),

product\_name: 'Practical Fresh Sausages',

product\_material: 'Cotton'

},

{

\_id: ObjectId("64439f9aa1277ab1cd2c79d2"),

product\_name: 'Refined Steel Car',

product\_material: 'Rubber'

},

{

\_id: ObjectId("64439f9aa1277ab1cd2c79d3"),

product\_name: 'Gorgeous Plastic Pants',

product\_material: 'Soft'

},

{

\_id: ObjectId("64439f9aa1277ab1cd2c79d4"),

product\_name: 'Sleek Cotton Chair',

product\_material: 'Fresh'

},

{

\_id: ObjectId("64439f9aa1277ab1cd2c79d5"),

product\_name: 'Awesome Wooden Towels',

product\_material: 'Plastic'

},

{

\_id: ObjectId("64439f9aa1277ab1cd2c79d6"),

product\_name: 'Practical Soft Shoes',

product\_material: 'Rubber'

},

{

\_id: ObjectId("64439f9aa1277ab1cd2c79d7"),

product\_name: 'Incredible Steel Hat',

product\_material: 'Rubber'

},

{

\_id: ObjectId("64439f9aa1277ab1cd2c79d8"),

product\_name: 'Awesome Wooden Ball',

product\_material: 'Soft'

},

{

\_id: ObjectId("64439f9aa1277ab1cd2c79d9"),

product\_name: 'Generic Wooden Pizza',

product\_material: 'Frozen'

},

{

\_id: ObjectId("64439f9aa1277ab1cd2c79da"),

product\_name: 'Unbranded Wooden Cheese',

product\_material: 'Soft'

},

{

\_id: ObjectId("64439f9aa1277ab1cd2c79db"),

product\_name: 'Unbranded Plastic Salad',

product\_material: 'Wooden'

},

{

\_id: ObjectId("64439f9aa1277ab1cd2c79dc"),

product\_name: 'Gorgeous Cotton Keyboard',

product\_material: 'Concrete'

},

{

\_id: ObjectId("64439f9aa1277ab1cd2c79dd"),

product\_name: 'Incredible Steel Shirt',

product\_material: 'Metal'

},

{

\_id: ObjectId("64439f9aa1277ab1cd2c79de"),

product\_name: 'Ergonomic Cotton Hat',

product\_material: 'Rubber'

},

{

\_id: ObjectId("64439f9aa1277ab1cd2c79df"),

product\_name: 'Small Soft Chair',

product\_material: 'Cotton'

},

{

\_id: ObjectId("64439f9aa1277ab1cd2c79e0"),

product\_name: 'Incredible Metal Car',

product\_material: 'Fresh'

},

{

\_id: ObjectId("64439f9aa1277ab1cd2c79e1"),

product\_name: 'Licensed Plastic Bacon',

product\_material: 'Steel'

},

{

\_id: ObjectId("64439f9aa1277ab1cd2c79e2"),

product\_name: 'Intelligent Cotton Chips',

product\_material: 'Soft'

},

{

\_id: ObjectId("64439f9aa1277ab1cd2c79e3"),

product\_name: 'Handcrafted Wooden Bacon',

product\_material: 'Concrete'

}

]

6. db.products.find({id:'10'})

[

{

\_id: ObjectId("64439f9aa1277ab1cd2c79d9"),

id: '10',

product\_name: 'Generic Wooden Pizza',

product\_price: 84,

product\_material: 'Frozen',

product\_color: 'indigo'

}

]

7.db.products.find({},{product\_name:1,product\_material:1,\_id:0})

[

{

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'

}

]

8. db.products.find({product\_material: {$in:['Soft']}})

[

{

\_id: ObjectId("64439f9aa1277ab1cd2c79d3"),

id: '4',

product\_name: 'Gorgeous Plastic Pants',

product\_price: 492,

product\_material: 'Soft',

product\_color: 'plum'

},

{

\_id: ObjectId("64439f9aa1277ab1cd2c79d8"),

id: '9',

product\_name: 'Awesome Wooden Ball',

product\_price: 28,

product\_material: 'Soft',

product\_color: 'azure'

},

{

\_id: ObjectId("64439f9aa1277ab1cd2c79da"),

id: '11',

product\_name: 'Unbranded Wooden Cheese',

product\_price: 26,

product\_material: 'Soft',

product\_color: 'black'

},

{

\_id: ObjectId("64439f9aa1277ab1cd2c79e2"),

id: '19',

product\_name: 'Intelligent Cotton Chips',

product\_price: 46,

product\_material: 'Soft',

product\_color: 'azure'

}

]

9.db.products.find({product\_price:492,product\_color:"Indigo"})

No products were found

10. db.products.aggregate([{$group: {\_id:{price:'$product\_price'}, product\_ids: {$addToSet:'$id'},count:{$sum:1}}}, {$match:{count:{$gte:2}}}]).forEach(row => {print('Products with Duplicate price : ' , row.product\_ids); row.product\_ids.shift(); print('Product Id to be removed :',row.product\_ids); db.products.remove({id:{$in: row.product\_ids}})})