

# MONGODB TASK

**db.products.find():**The command db.products.find() retrieves all documents from the products collection in the current database.

```
student          56.00 KiB
bookstore> db.products.find()
[
  {
    _id: ObjectId('67553eea2b044e0ae2893bfd'),
    id: 1,
    product_name: 'Intelligent Fresh Chips',
    product_price: 655,
    product_material: 'Concrete',
    product_color: 'mint green'
  },
  {
    _id: ObjectId('67553eea2b044e0ae2893bfe'),
    id: 2,
    product_name: 'Practical Fresh Sausages',
    product_price: 911,
    product_material: 'Cotton',
    product_color: 'indigo'
  },
  {
    _id: ObjectId('67553eea2b044e0ae2893bff'),
    id: 3,
    product_name: 'Refined Steel Car',
    product_price: 690,
    product_material: 'Rubber',
    product_color: 'gold'
  },
  {
    _id: ObjectId('67553eea2b044e0ae2893c00'),
    id: 4,
    product_name: 'Gorgeous Plastic Pants',
    product_price: 492,
    product_material: 'Soft',
    product_color: 'plum'
  }
]
```

# MONGODB TASK

```
{,
{
  _id: ObjectId('67553eea2b044e0ae2893c01'),
  id: 5,
  product_name: 'Sleek Cotton Chair',
  product_price: 33,
  product_material: 'Fresh',
  product_color: 'black'
},
{
  _id: ObjectId('67553eea2b044e0ae2893c02'),
  id: 6,
  product_name: 'Awesome Wooden Towels',
  product_price: 474,
  product_material: 'Plastic',
  product_color: 'orange'
},
{
  _id: ObjectId('67553eea2b044e0ae2893c03'),
  id: 7,
  product_name: 'Practical Soft Shoes',
  product_price: 500,
  product_material: 'Rubber',
  product_color: 'pink'
},
{
  _id: ObjectId('67553eea2b044e0ae2893c04'),
  id: 8,
  product_name: 'Incredible Steel Hat',
  product_price: 78,
  product_material: 'Rubber',
  product_color: 'violet'
},
{
  _id: ObjectId('67553eea2b044e0ae2893c05'),
  id: 9,
  product_name: 'Awesome Wooden Ball',
  product_price: 28,
  product_material: 'Soft',
  product_color: 'azure'
},
},
```

# MONGODB TASK

```
{
  _id: ObjectId('67553eea2b044e0ae2893c06'),
  id: 10,
  product_name: 'Generic Wooden Pizza',
  product_price: 84,
  product_material: 'Frozen',
  product_color: 'indigo'
},
{
  _id: ObjectId('67553eea2b044e0ae2893c07'),
  id: 11,
  product_name: 'Unbranded Wooden Cheese',
  product_price: 26,
  product_material: 'Soft',
  product_color: 'black'
},
{
  _id: ObjectId('67553eea2b044e0ae2893c08'),
  id: 12,
  product_name: 'Unbranded Plastic Salad',
  product_price: 89,
  product_material: 'Wooden',
  product_color: 'pink'
},
{
  _id: ObjectId('67553eea2b044e0ae2893c09'),
  id: 13,
  product_name: 'Gorgeous Cotton Keyboard',
  product_price: 37,
  product_material: 'Concrete',
  product_color: 'sky blue'
},
{
  _id: ObjectId('67553eea2b044e0ae2893c0a'),
  id: 14,
  product_name: 'Incredible Steel Shirt',
  product_price: 54,
  product_material: 'Metal',
  product_color: 'white'
},
}
```

# MONGODB TASK

```
},
{
  _id: ObjectId('67553eea2b044e0ae2893c0b'),
  id: 15,
  product_name: 'Ergonomic Cotton Hat',
  product_price: 43,
  product_material: 'Rubber',
  product_color: 'mint green'
},
{
  _id: ObjectId('67553eea2b044e0ae2893c0c'),
  id: 16,
  product_name: 'Small Soft Chair',
  product_price: 47,
  product_material: 'Cotton',
  product_color: 'teal'
},
{
  _id: ObjectId('67553eea2b044e0ae2893c0d'),
  id: 17,
  product_name: 'Incredible Metal Car',
  product_price: 36,
  product_material: 'Fresh',
  product_color: 'indigo'
},
{
  _id: ObjectId('67553eea2b044e0ae2893c0e'),
  id: 18,
  product_name: 'Licensed Plastic Bacon',
  product_price: 88,
  product_material: 'Steel',
  product_color: 'yellow'
},
{
  _id: ObjectId('67553eea2b044e0ae2893c0f'),
  id: 19,
  product_name: 'Intelligent Cotton Chips',
  product_price: 46,
  product_material: 'Soft',
  product_color: 'azure'
},
}
```

# MONGODB TASK

```
product_material: 'Soft',
product_color: 'azure'
},
{
  _id: ObjectId('67553eea2b044e0ae2893c10'),
  id: 20,
  product_name: 'Handcrafted Wooden Bacon',
  product_price: 36,
  product_material: 'Concrete',
  product_color: 'Lime'
}
]
Type "it" for more
bookstore> it
[
  {
    _id: ObjectId('67553eea2b044e0ae2893c11'),
    id: 21,
    product_name: 'Unbranded Granite Chicken',
    product_price: 90,
    product_material: 'Metal',
    product_color: 'gold'
  },
  {
    _id: ObjectId('67553eea2b044e0ae2893c12'),
    id: 22,
    product_name: 'Ergonomic Soft Hat',
    product_price: 99,
    product_material: 'Rubber',
    product_color: 'black'
  },
  {
    _id: ObjectId('67553eea2b044e0ae2893c13'),
    id: 23,
    product_name: 'Intelligent Steel Pizza',
    product_price: 95,
    product_material: 'Cotton',
    product_color: 'azure'
  },
  {
    _id: ObjectId('67553eea2b044e0ae2893c14'),
    id: 24,
    product_name: 'Tasty Rubber Cheese',
    product_price: 47,
    product_material: 'Frozen',
    product_color: 'orchid'
  },
  {
    _id: ObjectId('67553eea2b044e0ae2893c15'),
    id: 25,
    product_name: 'Licensed Steel Car',
    product_price: 20,
    product_material: 'Cotton',
    product_color: 'indigo'
  }
]
```

```
product_color: 'black'
},
{
  _id: ObjectId('67553eea2b044e0ae2893c13'),
  id: 23,
  product_name: 'Intelligent Steel Pizza',
  product_price: 95,
  product_material: 'Cotton',
  product_color: 'azure'
},
{
  _id: ObjectId('67553eea2b044e0ae2893c14'),
  id: 24,
  product_name: 'Tasty Rubber Cheese',
  product_price: 47,
  product_material: 'Frozen',
  product_color: 'orchid'
},
{
  _id: ObjectId('67553eea2b044e0ae2893c15'),
  id: 25,
  product_name: 'Licensed Steel Car',
  product_price: 20,
  product_material: 'Cotton',
  product_color: 'indigo'
}
]
bookstore> db.products.find({'product_price':{'$gte': 400, '$lte': 1000}})
```

# MONGODB TASK

**db.products.find({product\_Price: {\$gte: 400,\$lte:800 }}):** The command `db.products.find({product_Price: {$gte: 400, $lte: 800}})` retrieves all documents from the products collection where the product\_Price is between 400 and 800, inclusive.

```
bookstore> db.products.find({product_price :{$gte: 400,$lte:800 }})
[
  {
    _id: ObjectId('67553eea2b044e0ae2893bfd'),
    id: 1,
    product_name: 'Intelligent Fresh Chips',
    product_price: 655,
    product_material: 'Concrete',
    product_color: 'mint green'
  },
  {
    _id: ObjectId('67553eea2b044e0ae2893bff'),
    id: 3,
    product_name: 'Refined Steel Car',
    product_price: 690,
    product_material: 'Rubber',
    product_color: 'gold'
  },
  {
    _id: ObjectId('67553eea2b044e0ae2893c00'),
    id: 4,
    product_name: 'Gorgeous Plastic Pants',
    product_price: 492,
    product_material: 'Soft',
    product_color: 'plum'
  },
  {
    _id: ObjectId('67553eea2b044e0ae2893c02'),
    id: 6,
    product_name: 'Awesome Wooden Towels',
    product_price: 474,
    product_material: 'Plastic',
    product_color: 'orange'
  },
  {
    _id: ObjectId('67553eea2b044e0ae2893c03'),
    id: 7,
    product_name: 'Practical Soft Shoes',
    product_price: 500,
    product_material: 'Rubber',
  }
```

# MONGODB TASK

**DB.PRODTCS.find({product\_Price :{\$not:{\$gte:400, \$lte :600}}})**: The command `db.products.find({product_Price: {$not: {$gte: 400, $lte: 600}}})` retrieves all documents from the products collection where the product\_Price is not between 400 and 600, inclusive.

```
bookstore> db.products.find({product_price :{$not:{$gte:400, $lte :600}}})
[
  {
    _id: ObjectId('67553eea2b044e0ae2893bfd'),
    id: 1,
    product_name: 'Intelligent Fresh Chips',
    product_price: 655,
    product_material: 'Concrete',
    product_color: 'mint green'
  },
  {
    _id: ObjectId('67553eea2b044e0ae2893bfe'),
    id: 2,
    product_name: 'Practical Fresh Sausages',
    product_price: 911,
    product_material: 'Cotton',
    product_color: 'indigo'
  },
  {
    _id: ObjectId('67553eea2b044e0ae2893bff'),
    id: 3,
    product_name: 'Refined Steel Car',
    product_price: 690,
    product_material: 'Rubber',
    product_color: 'gold'
  },
  {
    _id: ObjectId('67553eea2b044e0ae2893c01'),
    id: 5,
    product_name: 'Sleek Cotton Chair',
    product_price: 33,
    product_material: 'Fresh',
    product_color: 'black'
  },
  {
    _id: ObjectId('67553eea2b044e0ae2893c04'),
    id: 8,
    product_name: 'Incredible Steel Hat',
    product_price: 78,
    product_material: 'Rubber',
    product_color: 'violet'
  },
  {
    _id: ObjectId('67553eea2b044e0ae2893c05'),
    id: 9,
    product_name: 'Awesome Wooden Ball',
    product_price: 28,
    product_material: 'Soft',
    product_color: 'azure'
  }
]
```

# MONGODB TASK

```
{
  "_id": ObjectId("67553eea2b044e0ae2893c06"),
  "id": 10,
  "product_name": "Generic Wooden Pizza",
  "product_price": 84,
  "product_material": "Frozen",
  "product_color": "indigo"
},
{
  "_id": ObjectId("67553eea2b044e0ae2893c07"),
  "id": 11,
  "product_name": "Unbranded Wooden Cheese",
  "product_price": 26,
  "product_material": "Soft",
  "product_color": "black"
},
{
  "_id": ObjectId("67553eea2b044e0ae2893c08"),
  "id": 12,
  "product_name": "Unbranded Plastic Salad",
  "product_price": 89,
  "product_material": "Wooden",
  "product_color": "pink"
},
{
  "_id": ObjectId("67553eea2b044e0ae2893c09"),
  "id": 13,
  "product_name": "Gorgeous Cotton Keyboard",
  "product_price": 37,
  "product_material": "Concrete",
  "product_color": "sky blue"
},
{
  "_id": ObjectId("67553eea2b044e0ae2893c0a"),
  "id": 14,
  "product_name": "Incredible Steel Shirt",
  "product_price": 54,
  "product_material": "Metal",
  "product_color": "white"
},
{
  "_id": ObjectId("67553eea2b044e0ae2893c0b"),
  "id": 15,
  "product_name": "Ergonomic Cotton Hat",
  "product_price": 43,
  "product_material": "Rubber",
  "product_color": "mint green"
},
{
  "id": ObjectId("67553eea2b044e0ae2893c0c")
}
```



# MONGODB TASK

```
{
  _id: ObjectId('67553eea2b044e0ae2893c0b'),
  id: 15,
  product_name: 'Ergonomic Cotton Hat',
  product_price: 43,
  product_material: 'Rubber',
  product_color: 'mint green'
},
{
  _id: ObjectId('67553eea2b044e0ae2893c0c'),
  id: 16,
  product_name: 'Small Soft Chair',
  product_price: 47,
  product_material: 'Cotton',
  product_color: 'teal'
},
{
  _id: ObjectId('67553eea2b044e0ae2893c0d'),
  id: 17,
  product_name: 'Incredible Metal Car',
  product_price: 36,
  product_material: 'Fresh',
  product_color: 'indigo'
},
{
  _id: ObjectId('67553eea2b044e0ae2893c0e'),
  id: 18,
  product_name: 'Licensed Plastic Bacon',
  product_price: 88,
  product_material: 'Steel',
  product_color: 'yellow'
},
{
  _id: ObjectId('67553eea2b044e0ae2893c0f'),
  id: 19,
  product_name: 'Intelligent Cotton Chips',
  product_price: 46,
  product_material: 'Soft',
  product_color: 'azure'
},
{
  _id: ObjectId('67553eea2b044e0ae2893c10'),
  id: 20,
  product_name: 'Handcrafted Wooden Bacon',
  product_price: 36,
  product_material: 'Concrete',
  product_color: 'lime'
},
{
  _id: ObjectId('67553eea2b044e0ae2893c11')
```

# MONGODB TASK

```
product_name: 'Handcrafted Wooden Bacon',
product_price: 36,
product_material: 'Concrete',
product_color: 'lime'
},
{
  _id: ObjectId('67553eea2b044e0ae2893c11'),
  id: 21,
  product_name: 'Unbranded Granite Chicken',
  product_price: 90,
  product_material: 'Metal',
  product_color: 'gold'
},
{
  _id: ObjectId('67553eea2b044e0ae2893c12'),
  id: 22,
  product_name: 'Ergonomic Soft Hat',
  product_price: 99,
  product_material: 'Rubber',
  product_color: 'black'
},
{
  _id: ObjectId('67553eea2b044e0ae2893c13'),
  id: 23,
  product_name: 'Intelligent Steel Pizza',
  product_price: 95,
  product_material: 'Cotton',
  product_color: 'azure'
}
]
Type "it" for more
bookstore> it
[
  {
    _id: ObjectId('67553eea2b044e0ae2893c14'),
    id: 24,
    product_name: 'Tasty Rubber Cheese',
    product_price: 47,
    product_material: 'Frozen',
    product_color: 'orchid'
  },
  {
    _id: ObjectId('67553eea2b044e0ae2893c15'),
    id: 25,
    product_name: 'Licensed Steel Car',
    product_price: 20,
    product_material: 'Cotton',
    product_color: 'indigo'
  }
]
```

# MONGODB TASK

**db.products.find({product\_price :{\$gt : 500}}).limit(4):** The command db.products.find({product\_price: {\$gt: 500}}).limit(4) retrieves the first 4 documents from the products collection where the product\_price is greater than 500.

```
bookstore> db.products.find({product_price :{$gt : 500}}).limit(4)
[
  {
    _id: ObjectId('67553eea2b044e0ae2893bfd'),
    id: 1,
    product_name: 'Intelligent Fresh Chips',
    product_price: 655,
    product_material: 'Concrete',
    product_color: 'mint green'
  },
  {
    _id: ObjectId('67553eea2b044e0ae2893bfe'),
    id: 2,
    product_name: 'Practical Fresh Sausages',
    product_price: 911,
    product_material: 'Cotton',
    product_color: 'indigo'
  },
  {
    _id: ObjectId('67553eea2b044e0ae2893bff'),
    id: 3,
    product_name: 'Refined Steel Car',
    product_price: 690,
    product_material: 'Rubber',
    product_color: 'gold'
  }
]
```

# MONGODB TASK

`db.products.find({}, {product_name:1, product_material:1, _id :0}).pretty()`: The command `db.products.find({}, {product_name: 1, product_material: 1, _id: 0}).pretty()` retrieves and displays only the `product_name` and `product_material` fields from all documents in the `products` collection, excluding the `_id` field, with a formatted (pretty-printed) output.

```
bookstore> db.products.find({}, {product_name:1, product_material:1, _id :0}).pretty()
[
  {
    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'
  }
]
Type "it" for more
```

```
]
Type "it" for more
bookstore> it
[
  {
    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' }
]
bookstore> db.products.find({_id:10})
```

# MONGODB TASK

**db.products.find({id:10}):** The command `db.products.find({id: 10})` retrieves the document(s) from the products collection where the id field has a value of 10.

```
TypeError: db.products.find is not a function
bookstore> db.products.find({id:10})
[
  {
    _id: ObjectId('67553eea2b044e0ae2893c06'),
    id: 10,
    product_name: 'Generic Wooden Pizza',
    product_price: 84,
    product_material: 'Frozen',
    product_color: 'indigo'
  }
]
```

**db.products.find({}, {product\_name :1, product\_material :1, \_id:0}).**  
**forEach(docbookstore> db.products.find({}, {product\_name :1,**  
**product\_material :1, \_id:0}).** **forEach(doc => {print(`Product Name**  
**:\${doc.product\_name}),Product Material:\${doc.product\_material}`))):** This command retrieves only the product\_name and product\_material fields from all documents in the products collection, excluding the \_id field. It then iterates over the results using .forEach() and prints each document's product\_name and product\_material in a formatted string.

```
bookstore> db.products.find({}, {product_name :1, product_material :1, _id:0}). forEach(docbookstore> db.products.find({}, {product_name :1, product_material :1, _id:0}). forEach(doc => {p
rint(`Product Name :${doc.product_name},Product Material:${doc.product_material}`)})
Product Name :${doc.product_name},Product Material:Concrete
Product Name :${doc.product_name},Product Material:Cotton
Product Name :${doc.product_name},Product Material:Rubber
Product Name :${doc.product_name},Product Material:Soft
Product Name :${doc.product_name},Product Material:Fresh
Product Name :${doc.product_name},Product Material:Plastic
Product Name :${doc.product_name},Product Material:Rubber
Product Name :${doc.product_name},Product Material:Rubber
Product Name :${doc.product_name},Product Material:Soft
Product Name :${doc.product_name},Product Material:Frozen
Product Name :${doc.product_name},Product Material:Soft
Product Name :${doc.product_name},Product Material:Wooden
Product Name :${doc.product_name},Product Material:Concrete
Product Name :${doc.product_name},Product Material:Metal
Product Name :${doc.product_name},Product Material:Rubber
Product Name :${doc.product_name},Product Material:Cotton
Product Name :${doc.product_name},Product Material:Fresh
Product Name :${doc.product_name},Product Material:Steel
Product Name :${doc.product_name},Product Material:Soft
Product Name :${doc.product_name},Product Material:Concrete
Product Name :${doc.product_name},Product Material:Metal
Product Name :${doc.product_name},Product Material:Rubber
Product Name :${doc.product_name},Product Material:Cotton
Product Name :${doc.product_name},Product Material:Frozen
Product Name :${doc.product_name},Product Material:Cotton
```

# MONGODB TASK

**db.products.find({product\_material :{\$regex:/soft/i}}):** The command `db.products.find({product_material: {$regex: /soft/i}})` retrieves all documents from the products collection where the product\_material field contains the word "soft" (case-insensitive).

```
bookstore> db.products.find({product_material :{$regex:/soft/i}})
[
  {
    _id: ObjectId('67553eea2b044e0ae2893c00'),
    id: 4,
    product_name: 'Gorgeous Plastic Pants',
    product_price: 492,
    product_material: 'Soft',
    product_color: 'plum'
  },
  {
    _id: ObjectId('67553eea2b044e0ae2893c05'),
    id: 9,
    product_name: 'Awesome Wooden Ball',
    product_price: 28,
    product_material: 'Soft',
    product_color: 'azure'
  },
  {
    _id: ObjectId('67553eea2b044e0ae2893c07'),
    id: 11,
    product_name: 'Unbranded Wooden Cheese',
    product_price: 26,
    product_material: 'Soft',
    product_color: 'black'
  },
  {
    _id: ObjectId('67553eea2b044e0ae2893c0f'),
    id: 19,
    product_name: 'Intelligent Cotton Chips',
    product_price: 46,
    product_material: 'Soft',
    product_color: 'azure'
  }
]
```

# MONGODB TASK

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

The command `db.products.find({ $or: [{product_color: "indigo"}, {product_price: 492.00}] })` retrieves all documents from the products collection where either:

- product\_color is "indigo",
- or product\_price is 492.00.

```
bookstore> db.products.find({ $or: [{product_color:"indigo"},{product_price:492.00}]}))
[
  {
    _id: ObjectId('67553eea2b044e0ae2893bfe'),
    id: 2,
    product_name: 'Practical Fresh Sausages',
    product_price: 911,
    product_material: 'Cotton',
    product_color: 'indigo'
  },
  {
    _id: ObjectId('67553eea2b044e0ae2893c00'),
    id: 4,
    product_name: 'Gorgeous Plastic Pants',
    product_price: 492,
    product_material: 'Soft',
    product_color: 'plum'
  },
  {
    _id: ObjectId('67553eea2b044e0ae2893c06'),
    id: 10,
    product_name: 'Generic Wooden Pizza',
    product_price: 84,
    product_material: 'Frozen',
    product_color: 'indigo'
  },
  {
    _id: ObjectId('67553eea2b044e0ae2893c0d'),
    id: 17,
    product_name: 'Incredible Metal Car',
    product_price: 36,
    product_material: 'Fresh',
    product_color: 'indigo'
  },
  {
    _id: ObjectId('67553eea2b044e0ae2893c15'),
    id: 25,
    product_name: 'Licensed Steel Car',
    product_price: 20,
    product_material: 'Cotton',
    product_color: 'indigo'
  }
]
```

# MONGODB TASK

**db.products.find({product\_color:"plum", product\_price:492.00}):** The command `db.products.find({product_color: "plum", product_price: 492.00})` retrieves all documents from the products collection where both conditions are true:

```
bookstore> db.products.find({product_color:"plum", product_price:492.00})
[
  {
    _id: ObjectId('67553eea2b044e0ae2893c00'),
    id: 4,
    product_name: 'Gorgeous Plastic Pants',
    product_price: 492,
    product_material: 'Soft',
    product_color: 'plum'
  }
]
```

**db.products.deleteMany({product\_price:28}):** The command `db.products.deleteMany({product_price: 28})` deletes all documents from the products collection where the product\_price is exactly 28.

```
bookstore> db.products.deleteMany({product_price:28})
{ acknowledged: true, deletedCount: 1 }
bookstore> |
```