

// 1. Find all the information about each products

db.products.find();

```
Atlas atlas-52c3yg-shard-0 [primary] fsd56wedb> db.products.find();
[
  {
    _id: ObjectId('66ade11f37df1cbc4d6e41c6'),
    id: '1',
    product_name: 'Intelligent Fresh Chips',
    product_price: 655,
    product_material: 'Concrete',
    product_color: 'mint green'
  },
  {
    _id: ObjectId('66ade11f37df1cbc4d6e41c7'),
    id: '2',
    product_name: 'Practical Fresh Sausages',
    product_price: 911,
    product_material: 'Cotton',
    product_color: 'indigo'
  },
  {
    _id: ObjectId('66ade11f37df1cbc4d6e41c8'),
    id: '3',
    product_name: 'Refined Steel Car',
    product_price: 690,
    product_material: 'Rubber',
    product_color: 'gold'
  },
  {
    _id: ObjectId('66ade11f37df1cbc4d6e41c9'),
    id: '4',
    product_name: 'Gorgeous Plastic Pants',
    product_price: 492,
    product_material: 'Soft',
    product_color: 'plum'
  }
]
```

// 2. Find the product price which are between 400 and 800

```
db.products.find({
  product_price: { $gte: 400, $lte: 800 }
});
```

```

Type: int for more
Atlas atlas-52c3yg-shard-0 [primary] fsd56wedb> db.products.find({
...   product_price: { $gte: 400, $lte: 800 }
... });
[
  {
    _id: ObjectId('66ade11f37df1cbc4d6e41c6'),
    id: '1',
    product_name: 'Intelligent Fresh Chips',
    product_price: 655,
    product_material: 'Concrete',
    product_color: 'mint green'
  },
  {
    _id: ObjectId('66ade11f37df1cbc4d6e41c8'),
    id: '3',
    product_name: 'Refined Steel Car',
    product_price: 690,
    product_material: 'Rubber',
    product_color: 'gold'
  },
  {
    _id: ObjectId('66ade11f37df1cbc4d6e41c9'),
    id: '4',
    product_name: 'Gorgeous Plastic Pants',
    product_price: 492,
    product_material: 'Soft',
    product_color: 'plum'
  },
  {
    _id: ObjectId('66ade11f37df1cbc4d6e41cb'),
    id: '6',
    product_name: 'Awesome Wooden Towels',
    product_price: 474,
    product_material: 'Plastic',
    product_color: 'orange'
  },
  {
    _id: ObjectId('66ade11f37df1cbc4d6e41cc'),
    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 and 600
db.products.find({
  $or: [
    { product_price: { $gt: 600 } },
    { product_price: { $lt: 400 } }
  ]
});
```

```

Atlas atlas-52c3yg-shard-0 [primary] f5d56weddb> db.products.find({
...   $or: [
...     { product_price: { $gt: 600 } },
...     { product_price: { $lt: 400 } }
...   ]
... });
[
  {
    _id: ObjectId('66adellf37d41cbc4d6e41c6'),
    id: '1',
    product_name: 'Intelligent Fresh Chips',
    product_price: 655,
    product_material: 'Concrete',
    product_color: 'mint green'
  },
  {
    _id: ObjectId('66adellf37d41cbc4d6e41c7'),
    id: '2',
    product_name: 'Practical Fresh Sausages',
    product_price: 911,
    product_material: 'Cotton',
    product_color: 'indigo'
  },
  {
    _id: ObjectId('66adellf37d41cbc4d6e41c8'),
    id: '3',
    product_name: 'Refined Steel Car',
    product_price: 690,
    product_material: 'Rubber',
    product_color: 'gold'
  },
  {
    _id: ObjectId('66adellf37d41cbc4d6e41ca'),
    id: '5',
    product_name: 'Sleek Cotton Chair',
    product_price: 33,
    product_material: 'Fresh',
    product_color: 'black'
  },
  {
    _id: ObjectId('66adellf37d41cbc4d6e41cd'),
    id: '8',
    product_name: 'Incredible Steel Hat',
    product_price: 78,
    product_material: 'Rubber',
    product_color: 'violet'
  },
  {
    _id: ObjectId('66adellf37d41cbc4d6e41ce'),
    id: '9',
    product_name: 'Awesome Wooden Ball',
    product_price: 28,
    product_material: 'Soft',
    product_color: 'azure'
  },
  {
    _id: ObjectId('66adellf37d41cbc4d6e41cf'),
    id: '10',
    product_name: 'Generic Wooden Pizza',
    product_price: 84,
    product_material: 'Frozen',
    product_color: 'indigo'
  },
  {
    _id: ObjectId('66adellf37d41cbc4d6e41d0'),
    id: '11',
    product_name: 'Unbranded Wooden Cheese',
    product_price: 26,
    product_material: 'Soft',
    product_color: 'black'
  },
  {
    _id: ObjectId('66adellf37d41cbc4d6e41d1'),
    id: '12',
    product_name: 'Unbranded Plastic Salad',
    product_price: 89,
    product_material: 'Wooden',
    product_color: 'pink'
  },
  {
    _id: ObjectId('66adellf37d41cbc4d6e41d2'),
    id: '13',
    product_name: 'Gorgeous Cotton Keyboard',
    product_price: 37,
    product_material: 'Concrete',
    product_color: 'sky blue'
  },
  {
    _id: ObjectId('66adellf37d41cbc4d6e41d3'),
    id: '14',
    product_name: 'Incredible Steel Shirt',
    product_price: 54,
    product_material: 'Metal',
  }
]

```

// 4. List the four product which are greater than 500 in price

```
db.products.find({  
  product_price: { $gt: 500 }  
}).limit(4);
```

```
Atlas atlas-52c3yg-shard-0 [primary] fsd56weddb> db.products.find({  
...   product_price: { $gt: 500 }  
... }).limit(4);  
[  
  {  
    _id: ObjectId('66ade11f37df1cbc4d6e41c6'),  
    id: '1',  
    product_name: 'Intelligent Fresh Chips',  
    product_price: 655,  
    product_material: 'Concrete',  
    product_color: 'mint green'  
  },  
  {  
    _id: ObjectId('66ade11f37df1cbc4d6e41c7'),  
    id: '2',  
    product_name: 'Practical Fresh Sausages',  
    product_price: 911,  
    product_material: 'Cotton',  
    product_color: 'indigo'  
  },  
  {  
    _id: ObjectId('66ade11f37df1cbc4d6e41c8'),  
    id: '3',  
    product_name: 'Refined Steel Car',  
    product_price: 690,  
    product_material: 'Rubber',  
    product_color: 'gold'  
  }  
]
```

// 5. Find the product name and product material of each products

```
db.products.find({}, {  
  product_name: 1,  
  product_material: 1  
});
```

```

Atlas atlas-52c3yg-shard-0 [primary] fsd56weddb> db.products.find({}, {
...   product_name: 1,
...   product_material: 1
... });
[
  {
    _id: ObjectId('66ade11f37df1cbc4d6e41c6'),
    product_name: 'Intelligent Fresh Chips',
    product_material: 'Concrete'
  },
  {
    _id: ObjectId('66ade11f37df1cbc4d6e41c7'),
    product_name: 'Practical Fresh Sausages',
    product_material: 'Cotton'
  },
  {
    _id: ObjectId('66ade11f37df1cbc4d6e41c8'),
    product_name: 'Refined Steel Car',
    product_material: 'Rubber'
  },
  {
    _id: ObjectId('66ade11f37df1cbc4d6e41c9'),
    product_name: 'Gorgeous Plastic Pants',
    product_material: 'Soft'
  }
]

```

// 6. Find the product with an ID of "10"

```

db.products.findOne({
  id: "10"
});

```

```

Atlas atlas-52c3yg-shard-0 [primary] fsd56weddb> db.products.findOne({
...   id: "10"
... });
{
  _id: ObjectId('66ade11f37df1cbc4d6e41cf'),
  id: '10',
  product_name: 'Generic Wooden Pizza',
  product_price: 84,
  product_material: 'Frozen',
  product_color: 'indigo'
}
Atlas atlas-52c3yg-shard-0 [primary] fsd56weddb> |

```

// 7. Find only the product name and product material

```

db.products.find({}, {
  _id: 0,
  product_name: 1,
  product_material: 1
});

```

```

Atlas atlas-52c3yg-shard-0 [primary] fsd56weddb> db.products.find({}, {
...   _id: 0,
...   product_name: 1,
...   product_material: 1
... });
[
  {
    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
Atlas atlas-52c3yg-shard-0 [primary] fsd56weddb> |

```

```

// 8. Find all products which contain the value "Soft" in the product material
db.products.find({
  product_material: /Soft/i
});

```

```

Atlas atlas-52c3yg-shard-0 [primary] fsd56weddb> db.products.find({
...   product_material: /Soft/i
... });
[
  {
    _id: ObjectId('66ade11f37df1cbc4d6e41c9'),
    id: '4',
    product_name: 'Gorgeous Plastic Pants',
    product_price: 492,
    product_material: 'Soft',
    product_color: 'plum'
  },
  {
    _id: ObjectId('66ade11f37df1cbc4d6e41ce'),
    id: '9',
    product_name: 'Awesome Wooden Ball',
    product_price: 28,
    product_material: 'Soft',
    product_color: 'azure'
  },
  {
    _id: ObjectId('66ade11f37df1cbc4d6e41d0'),
    id: '11',
    product_name: 'Unbranded Wooden Cheese',
    product_price: 26,
    product_material: 'Soft',
    product_color: 'black'
  },
  {
    _id: ObjectId('66ade11f37df1cbc4d6e41d8'),
    id: '19',
    product_name: 'Intelligent Cotton Chips',
    product_price: 46,
    product_material: 'Soft',
    product_color: 'azure'
  }
]
Atlas atlas-52c3yg-shard-0 [primary] fsd56weddb> |

```

// 9. Find products which contain product color "indigo" and product price 492.00

```

db.products.find({
  product_color: "indigo",
  product_price: 492.00
});

```

```

Atlas atlas-52c3yg-shard-0 [primary] fsd56weddb> db.products.find({
...   product_color: "indigo",
...   product_price: 492.00
... });
Atlas atlas-52c3yg-shard-0 [primary] fsd56weddb> |

```

// 10. Delete the products which product price value are 28

```

db.products.deleteMany({
  product_price: 28
});

```



```
Atlas atlas-52c3yg-shard-0 [primary] fsd56wedb> db.products.deleteMany({
...     product_price: 28
... });
{ acknowledged: true, deletedCount: 1 }
Atlas atlas-52c3yg-shard-0 [primary] fsd56wedb> |
```