

MongoDB Day 1

Product JSON: <https://github.com/rvsp/database/blob/master/mongodb/product.json>

```
db.food.insertMany([
  {
    "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"  
    }  
  ]  
)
```

```
mongosh mongodb://127.0.0.1:27017/?directConnection=true&serverSelectionTimeoutMS=2000&appName=mongosh+2.2.2
Microsoft Windows [Version 10.0.22631.3296]
(c) Microsoft Corporation. All rights reserved.

C:\Program Files\MongoDB\Server\7.0\bin>mongosh
Current Mongosh Log ID: 66099d0656117816349f9909
Connecting to:      mongodb://127.0.0.1:27017/?directConnection=true&serverSelectionTimeoutMS=2000&appName=mongosh+2.2.2
Using MongoDB:      7.0.7
Using Mongosh:       2.2.2

For mongosh info see: https://docs.mongodb.com/mongosh-shell/

-----
  The server generated these startup warnings when booting
  2024-03-27T12:13:40.053+05:30: Access control is not enabled for the database. Read and write access to data and configuration is unrestricted
-----

test> show dbs
admin      40.00 KiB
config     84.00 KiB
fsd56wd    112.00 KiB
local      40.00 KiB
test> use fsd56wd
switched to db fsd56wd
fsd56wd> show collections
movies
users
```

```
fsd56wd> db.food.insertMany(
... [
...   {
...     "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"
...   }
... ]
```

```
mongosh mongodb://127.0.0.1:27020/food
... }
... ]
... )
{
  acknowledged: true,
  insertedIds: {
    '0': ObjectId('66099e1f56117816349f990a'),
    '1': ObjectId('66099e1f56117816349f990b'),
    '2': ObjectId('66099e1f56117816349f990c'),
    '3': ObjectId('66099e1f56117816349f990d'),
    '4': ObjectId('66099e1f56117816349f990e'),
    '5': ObjectId('66099e1f56117816349f990f'),
    '6': ObjectId('66099e1f56117816349f9910'),
    '7': ObjectId('66099e1f56117816349f9911'),
    '8': ObjectId('66099e1f56117816349f9912'),
    '9': ObjectId('66099e1f56117816349f9913'),
    '10': ObjectId('66099e1f56117816349f9914'),
    '11': ObjectId('66099e1f56117816349f9915'),
    '12': ObjectId('66099e1f56117816349f9916'),
    '13': ObjectId('66099e1f56117816349f9917'),
    '14': ObjectId('66099e1f56117816349f9918'),
    '15': ObjectId('66099e1f56117816349f9919'),
    '16': ObjectId('66099e1f56117816349f991a'),
    '17': ObjectId('66099e1f56117816349f991b'),
    '18': ObjectId('66099e1f56117816349f991c'),
    '19': ObjectId('66099e1f56117816349f991d'),
    '20': ObjectId('66099e1f56117816349f991e'),
    '21': ObjectId('66099e1f56117816349f991f'),
    '22': ObjectId('66099e1f56117816349f9920'),
    '23': ObjectId('66099e1f56117816349f9921'),
    '24': ObjectId('66099e1f56117816349f9922')
  }
}
fsd56wd>

fsd56wd> show collections
food
movies
users
fsd56wd> |
```

For the following question write the corresponding MongoDB queries

1. Find all the information about each products
db.food.find()

```
users
fsd56wd> db.food.find()
[
  {
    _id: ObjectId('66099e1f56117816349f990a'),
    id: '1',
    product_name: 'Intelligent Fresh Chips',
    product_price: 655,
    product_material: 'Concrete',
    product_color: 'mint green'
  },
  {
    _id: ObjectId('66099e1f56117816349f990b'),
    id: '2',
    product_name: 'Practical Fresh Sausages',
    product_price: 911,
    product_material: 'Cotton',
    product_color: 'indigo'
  },
  {
    _id: ObjectId('66099e1f56117816349f990c'),
    id: '3',
    product_name: 'Refined Steel Car',
    product_price: 690,
    product_material: 'Rubber',
    product_color: 'gold'
  },
  {
    _id: ObjectId('66099e1f56117816349f990d'),
    id: '4',
    product_name: 'Gorgeous Plastic Pants',
    product_price: 492,
    product_material: 'Soft',
    product_color: 'plum'
  },
  {
    _id: ObjectId('66099e1f56117816349f990e'),
    id: '5',
    product_name: 'Sleek Cotton Chair',
    product_price: 33,
    product_material: 'Fresh',
    product_color: 'mint green'
  }
]
```

```

    id: '5',
    product_name: 'Sleek Cotton Chair',
    product_price: 33,
    product_material: 'Fresh',
    product_color: 'black'
  },
  {
    _id: ObjectId('66099e1f56117816349f990f'),
    id: '6',
    product_name: 'Awesome Wooden Towels',
    product_price: 474,
    product_material: 'Plastic',
    product_color: 'orange'
  },
  {
    _id: ObjectId('66099e1f56117816349f9910'),
    id: '7',
    product_name: 'Practical Soft Shoes',
    product_price: 500,
    product_material: 'Rubber',
    product_color: 'pink'
  },
  {
    _id: ObjectId('66099e1f56117816349f9911'),
    id: '8',
    product_name: 'Incredible Steel Hat',
    product_price: 78,
    product_material: 'Rubber',
    product_color: 'violet'
  },
  {
    _id: ObjectId('66099e1f56117816349f9912'),
    id: '9',
    product_name: 'Awesome Wooden Ball',
    product_price: 28,
    product_material: 'Soft',
    product_color: 'azure'
  },
  {

```

```

mongosh mongodb://127.0.0.1
{
  _id: ObjectId('66099e1f56117816349f9913'),
  id: '10',
  product_name: 'Generic Wooden Pizza',
  product_price: 84,
  product_material: 'Frozen',
  product_color: 'indigo'
},
{
  _id: ObjectId('66099e1f56117816349f9914'),
  id: '11',
  product_name: 'Unbranded Wooden Cheese',
  product_price: 26,
  product_material: 'Soft',
  product_color: 'black'
},
{
  _id: ObjectId('66099e1f56117816349f9915'),
  id: '12',
  product_name: 'Unbranded Plastic Salad',
  product_price: 89,
  product_material: 'Wooden',
  product_color: 'pink'
},
{
  _id: ObjectId('66099e1f56117816349f9916'),
  id: '13',
  product_name: 'Gorgeous Cotton Keyboard',
  product_price: 37,
  product_material: 'Concrete',
  product_color: 'sky blue'
},
{
  _id: ObjectId('66099e1f56117816349f9917'),
  id: '14',
  product_name: 'Incredible Steel Shirt',
  product_price: 54,
  product_material: 'Metal',
  product_color: 'white'
},
{

```

```

    {
      _id: ObjectId('66099e1f56117816349f9918'),
      id: '15',
      product_name: 'Ergonomic Cotton Hat',
      product_price: 43,
      product_material: 'Rubber',
      product_color: 'mint green'
    },
    {
      _id: ObjectId('66099e1f56117816349f9919'),
      id: '16',
      product_name: 'Small Soft Chair',
      product_price: 47,
      product_material: 'Cotton',
      product_color: 'teal'
    },
    {
      _id: ObjectId('66099e1f56117816349f991a'),
      id: '17',
      product_name: 'Incredible Metal Car',
      product_price: 36,
      product_material: 'Fresh',
      product_color: 'indigo'
    },
    {
      _id: ObjectId('66099e1f56117816349f991b'),
      id: '18',
      product_name: 'Licensed Plastic Bacon',
      product_price: 88,
      product_material: 'Steel',
      product_color: 'yellow'
    },
    {
      _id: ObjectId('66099e1f56117816349f991c'),
      id: '19',
      product_name: 'Intelligent Cotton Chips',
      product_price: 46,
      product_material: 'Soft',
      product_color: 'azure'
    },
    {
      _id: ObjectId('66099e1f56117816349f991d'),
      id: '20',
      product_name: 'Handcrafted Wooden Bacon',
      product_price: 36,
      product_material: 'Concrete',
      product_color: 'lime'
    }
  ]
}
Type "it" for more
fsd56wd> it
[
  {
    _id: ObjectId('66099e1f56117816349f991e'),
    id: '21',
    product_name: 'Unbranded Granite Chicken',
    product_price: 90,
    product_material: 'Metal',
    product_color: 'gold'
  },
  {
    _id: ObjectId('66099e1f56117816349f991f'),
    id: '22',
    product_name: 'Ergonomic Soft Hat',
    product_price: 99,
    product_material: 'Rubber',
    product_color: 'black'
  },
  {
    _id: ObjectId('66099e1f56117816349f9920'),
    id: '23',
    product_name: 'Intelligent Steel Pizza',
    product_price: 95,
    product_material: 'Cotton',
    product_color: 'azure'
  },
  {
    _id: ObjectId('66099e1f56117816349f9921'),
    id: '22',
    product_name: 'Ergonomic Soft Hat',
    product_price: 99,
    product_material: 'Rubber',
    product_color: 'black'
  },
  {
    _id: ObjectId('66099e1f56117816349f9920'),
    id: '23',
    product_name: 'Intelligent Steel Pizza',
    product_price: 95,
    product_material: 'Cotton',
    product_color: 'azure'
  },
  {
    _id: ObjectId('66099e1f56117816349f9921'),
    id: '24',
    product_name: 'Tasty Rubber Cheese',
    product_price: 47,
    product_material: 'Frozen',
    product_color: 'orchid'
  },
  {
    _id: ObjectId('66099e1f56117816349f9922'),
    id: '25',
    product_name: 'Licensed Steel Car',
    product_price: 20,
    product_material: 'Cotton',
    product_color: 'indigo'
  }
]

```

fsd56wd> |

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

db.food.find({product_price:{\$gte:400, \$lte:800}})

```
fsd56wd> db.food.find({product_price:{$gte:400, $lte:800}})
[
  {
    _id: ObjectId('66099elf56117816349f990a'),
    id: '1',
    product_name: 'Intelligent Fresh Chips',
    product_price: 655,
    product_material: 'Concrete',
    product_color: 'mint green'
  },
  {
    _id: ObjectId('66099elf56117816349f990c'),
    id: '3',
    product_name: 'Refined Steel Car',
    product_price: 690,
    product_material: 'Rubber',
    product_color: 'gold'
  },
  {
    _id: ObjectId('66099elf56117816349f990d'),
    id: '4',
    product_name: 'Gorgeous Plastic Pants',
    product_price: 492,
    product_material: 'Soft',
    product_color: 'plum'
  },
  {
    _id: ObjectId('66099elf56117816349f990f'),
    id: '6',
    product_name: 'Awesome Wooden Towels',
    product_price: 474,
    product_material: 'Plastic',
    product_color: 'orange'
  },
  {
    _id: ObjectId('66099elf56117816349f9910'),
    id: '7',
    product_name: 'Practical Soft Shoes',
    product_price: 500,
    product_material: 'Rubber',
    product_color: 'pink'
  },
  {
    _id: ObjectId('66099elf56117816349f9910'),
    id: '7',
    product_name: 'Practical Soft Shoes',
    product_price: 500,
    product_material: 'Rubber',
    product_color: 'pink'
  }
]
```

Notepad

3. Find the product price which are not between 400 to 600

db.food.find({ product_price: { \$not: { \$gte: 400, \$lte: 600 } } })

```
fsd56wd> db.food.find( { product_price: { $not: { $gte: 400, $lte: 600 } } } )
[
  {
    _id: ObjectId('66099elf56117816349f990a'),
    id: '1',
    product_name: 'Intelligent Fresh Chips',
    product_price: 655,
    product_material: 'Concrete',
    product_color: 'mint green'
  },
  {
    _id: ObjectId('66099elf56117816349f990b'),
    id: '2',
    product_name: 'Practical Fresh Sausages',
    product_price: 911,
    product_material: 'Cotton',
    product_color: 'indigo'
  },
  {
    _id: ObjectId('66099elf56117816349f990c'),
    id: '3',
    product_name: 'Refined Steel Car',
    product_price: 690,
    product_material: 'Rubber',
    product_color: 'gold'
  },
  {
    _id: ObjectId('66099elf56117816349f990e'),
    id: '5',
    product_name: 'Sleek Cotton Chair',
    product_price: 33,
    product_material: 'Fresh',
    product_color: 'black'
  }
]
```

```

    _id: ObjectId('66099elf56117816349f990e'),
    id: '5',
    product_name: 'Sleek Cotton Chair',
    product_price: 33,
    product_material: 'Fresh',
    product_color: 'black'
  },
  {
    _id: ObjectId('66099elf56117816349f9911'),
    id: '8',
    product_name: 'Incredible Steel Hat',
    product_price: 78,
    product_material: 'Rubber',
    product_color: 'violet'
  },
  {
    _id: ObjectId('66099elf56117816349f9912'),
    id: '9',
    product_name: 'Awesome Wooden Ball',
    product_price: 28,
    product_material: 'Soft',
    product_color: 'azure'
  },
  {
    _id: ObjectId('66099elf56117816349f9913'),
    id: '10',
    product_name: 'Generic Wooden Pizza',
    product_price: 84,
    product_material: 'Frozen',
    product_color: 'indigo'
  },
  {
    _id: ObjectId('66099elf56117816349f9914'),
    id: '11',
    product_name: 'Unbranded Wooden Cheese',
    product_price: 26,
    product_material: 'Soft',
    product_color: 'black'
  },
  {
    _id: ObjectId('66099elf56117816349f9914'),
    id: '11',
    product_name: 'Unbranded Wooden Cheese',
    product_price: 26,
    product_material: 'Soft',
    product_color: 'black'
  },
  {
    _id: ObjectId('66099elf56117816349f9915'),
    id: '12',
    product_name: 'Unbranded Plastic Salad',
    product_price: 89,
    product_material: 'Wooden',
    product_color: 'pink'
  },
  {
    _id: ObjectId('66099elf56117816349f9916'),
    id: '13',
    product_name: 'Gorgeous Cotton Keyboard',
    product_price: 37,
    product_material: 'Concrete',
    product_color: 'sky blue'
  },
  {
    _id: ObjectId('66099elf56117816349f9917'),
    id: '14',
    product_name: 'Incredible Steel Shirt',
    product_price: 54,
    product_material: 'Metal',
    product_color: 'white'
  },
  {
    _id: ObjectId('66099elf56117816349f9918'),
    id: '15',
    product_name: 'Ergonomic Cotton Hat',
    product_price: 43,
    product_material: 'Rubber',
    product_color: 'mint green'
  },
  {
    _id: ObjectId('66099elf56117816349f9919'),
    id: '16',
    product_name: 'Small Soft Chair',
    product_price: 47,
    product_material: 'Cotton',
    product_color: 'teal'
  },
  {
    _id: ObjectId('66099elf56117816349f991a'),
    id: '17',
    product_name: 'Incredible Metal Car',
    product_price: 36,
    product_material: 'Fresh',
    product_color: 'indigo'
  },
  {
    _id: ObjectId('66099elf56117816349f991b'),
    id: '18',
    product_name: 'Licensed Plastic Bacon',
    product_price: 88,
    product_material: 'Steel',
    product_color: 'yellow'
  },
  {
    _id: ObjectId('66099elf56117816349f991c'),
    id: '19',
    product_name: 'Intelligent Cotton Chips',
    product_price: 46,
    product_material: 'Soft',
    product_color: 'azure'
  },
  {
    _id: ObjectId('66099elf56117816349f991d'),
    id: '20',
    product_name: 'Handcrafted Wooden Bacon',
    product_price: 36,
    product_material: 'Concrete',
    product_color: 'lime'
  },
  {

```

```

{
  _id: ObjectId('66099e1f56117816349f991e'),
  id: '21',
  product_name: 'Unbranded Granite Chicken',
  product_price: 90,
  product_material: 'Metal',
  product_color: 'gold'
},
{
  _id: ObjectId('66099e1f56117816349f991f'),
  id: '22',
  product_name: 'Ergonomic Soft Hat',
  product_price: 99,
  product_material: 'Rubber',
  product_color: 'black'
},
{
  _id: ObjectId('66099e1f56117816349f9928'),
  id: '23',
  product_name: 'Intelligent Steel Pizza',
  product_price: 95,
  product_material: 'Cotton',
  product_color: 'azure'
}
]

```

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

db.food.find({product_price:{\$gte:500}})

```

fsd56wd> db.food.find({product_price:{$gte:500 } })
[
  {
    _id: ObjectId('66099e1f56117816349f990a'),
    id: '1',
    product_name: 'Intelligent Fresh Chips',
    product_price: 655,
    product_material: 'Concrete',
    product_color: 'mint green'
  },
  {
    _id: ObjectId('66099e1f56117816349f990b'),
    id: '2',
    product_name: 'Practical Fresh Sausages',
    product_price: 911,
    product_material: 'Cotton',
    product_color: 'indigo'
  },
  {
    _id: ObjectId('66099e1f56117816349f990c'),
    id: '3',
    product_name: 'Refined Steel Car',
    product_price: 690,
    product_material: 'Rubber',
    product_color: 'gold'
  },
  {
    _id: ObjectId('66099e1f56117816349f9910'),
    id: '7',
    product_name: 'Practical Soft Shoes',
    product_price: 500,
    product_material: 'Rubber',
    product_color: 'pink'
  }
]
fsd56wd> |

```

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

db.food.find({}, {product_name:1, product_material:1})

```

mongosh mongodb://127.0.0.1:27017
fsd56wd> db.food.find({}, {product_name:1, product_material:1})
[
  {
    _id: ObjectId('66099e1f56117816349f990a'),
    product_name: 'Intelligent Fresh Chips',
    product_material: 'Concrete'
  },
  {
    _id: ObjectId('66099e1f56117816349f990b'),
    product_name: 'Practical Fresh Sausages',
    product_material: 'Cotton'
  },
  {
    _id: ObjectId('66099e1f56117816349f990c'),
    product_name: 'Refined Steel Car',
    product_material: 'Rubber'
  },
  {
    _id: ObjectId('66099e1f56117816349f990d'),
    product_name: 'Gorgeous Plastic Pants',
    product_material: 'Soft'
  },
  {
    _id: ObjectId('66099e1f56117816349f990e'),
    product_name: 'Sleek Cotton Chair',
    product_material: 'Fresh'
  },
  {
    _id: ObjectId('66099e1f56117816349f990f'),
    product_name: 'Awesome Wooden Towels',
    product_material: 'Plastic'
  },
  {
    _id: ObjectId('66099e1f56117816349f9910'),
    product_name: 'Practical Soft Shoes',
    product_material: 'Rubber'
  },
  {
    _id: ObjectId('66099e1f56117816349f9911'),
    product_name: 'Incredible Steel Hat',
    product_material: 'Rubber'
  }
]

```

```

    product_material: 'Rubber'
  },
  {
    _id: ObjectId('66099e1f56117816349f9912'),
    product_name: 'Awesome Wooden Ball',
    product_material: 'Soft'
  },
  {
    _id: ObjectId('66099e1f56117816349f9913'),
    product_name: 'Generic Wooden Pizza',
    product_material: 'Frozen'
  },
  {
    _id: ObjectId('66099e1f56117816349f9914'),
    product_name: 'Unbranded Wooden Cheese',
    product_material: 'Soft'
  },
  {
    _id: ObjectId('66099e1f56117816349f9915'),
    product_name: 'Unbranded Plastic Salad',
    product_material: 'Wooden'
  },
  {
    _id: ObjectId('66099e1f56117816349f9916'),
    product_name: 'Gorgeous Cotton Keyboard',
    product_material: 'Concrete'
  },
  {
    _id: ObjectId('66099e1f56117816349f9917'),
    product_name: 'Incredible Steel Shirt',
    product_material: 'Metal'
  },
  {
    _id: ObjectId('66099e1f56117816349f9918'),
    product_name: 'Ergonomic Cotton Hat',
    product_material: 'Rubber'
  },
  {
    _id: ObjectId('66099e1f56117816349f9919'),
    product_name: 'Small Soft Chair',
    product_material: 'Cotton'
  },
  {
    _id: ObjectId('66099e1f56117816349f991a'),
    product_name: 'Incredible Metal Car',
    product_material: 'Fresh'
  },
  {
    _id: ObjectId('66099e1f56117816349f991b'),
    product_name: 'Licensed Plastic Bacon',
    product_material: 'Steel'
  },
  {
    _id: ObjectId('66099e1f56117816349f991c'),
    product_name: 'Intelligent Cotton Chips',
    product_material: 'Soft'
  },
  {
    _id: ObjectId('66099e1f56117816349f991d'),
    product_name: 'Handcrafted Wooden Bacon',
    product_material: 'Concrete'
  }
]
Type "it" for more
fsd56wd> it
[
  {
    _id: ObjectId('66099e1f56117816349f991e'),
    product_name: 'Unbranded Granite Chicken',
    product_material: 'Metal'
  },
  {
    _id: ObjectId('66099e1f56117816349f991f'),
    product_name: 'Ergonomic Soft Hat',
    product_material: 'Rubber'
  },
  {
    _id: ObjectId('66099e1f56117816349f9920'),
    product_name: 'Intelligent Steel Pizza',
    product_material: 'Cotton'
  },
  {
    _id: ObjectId('66099e1f56117816349f9921'),
    product_name: 'Tasty Rubber Cheese',
    product_material: 'Frozen'
  },
  {
    _id: ObjectId('66099e1f56117816349f9922'),
    product_name: 'Licensed Steel Car',
    product_material: 'Cotton'
  }
]

```

6. Find the product with a row id of 10

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

```
mongosh mongodb://127.0.0.1:27027/food
fsd56wd> db.food.find({id: "10"})
[
  {
    _id: ObjectId('66099e1f56117816349f9913'),
    id: '10',
    product_name: 'Generic Wooden Pizza',
    product_price: 84,
    product_material: 'Frozen',
    product_color: 'indigo'
  }
]
fsd56wd> |
```

7. Find only the product name and product material

db.food.find({}, {product_name:1, product_material:1, id: 0}).pretty()

```
fsd56wd> db.food.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
fsd56wd> 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'
  }
]
```

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

db.food.find({product_material: "Soft"})

```
f5d56wd> db.food.find({product_material:"Soft"})
[
  {
    _id: ObjectId('66099e1f56117816349f990d'),
    id: '4',
    product_name: 'Gorgeous Plastic Pants',
    product_price: 492,
    product_material: 'Soft',
    product_color: 'plum'
  },
  {
    _id: ObjectId('66099e1f56117816349f9912'),
    id: '9',
    product_name: 'Awesome Wooden Ball',
    product_price: 28,
    product_material: 'Soft',
    product_color: 'azure'
  },
  {
    _id: ObjectId('66099e1f56117816349f9914'),
    id: '11',
    product_name: 'Unbranded Wooden Cheese',
    product_price: 26,
    product_material: 'Soft',
    product_color: 'black'
  },
  {
    _id: ObjectId('66099e1f56117816349f991c'),
    id: '19',
    product_name: 'Intelligent Cotton Chips',
    product_price: 46,
    product_material: 'Soft',
    product_color: 'azure'
  }
]
f5d56wd> |
```

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

db.food.find({\$or:[{product_color:"indigo"},{product_price:492}]})

```
f5d56wd> db.food.find({$or:[{product_color:"indigo"},{product_price:492}]})
[
  {
    _id: ObjectId('66099e1f56117816349f990b'),
    id: '2',
    product_name: 'Practical Fresh Sausages',
    product_price: 911,
    product_material: 'Cotton',
    product_color: 'indigo'
  },
  {
    _id: ObjectId('66099e1f56117816349f990d'),
    id: '4',
    product_name: 'Gorgeous Plastic Pants',
    product_price: 492,
    product_material: 'Soft',
    product_color: 'plum'
  },
  {
    _id: ObjectId('66099e1f56117816349f9913'),
    id: '10',
    product_name: 'Generic Wooden Pizza',
    product_price: 84,
    product_material: 'Frozen',
    product_color: 'indigo'
  },
  {
    _id: ObjectId('66099e1f56117816349f991a'),
    id: '17',
    product_name: 'Incredible Metal Car',
    product_price: 36,
    product_material: 'Fresh',
    product_color: 'indigo'
  },
  {
    _id: ObjectId('66099e1f56117816349f9922'),
    id: '25',
    product_name: 'Licensed Steel Car',
    product_price: 20,
    product_material: 'Cotton',
    product_color: 'indigo'
  }
]
f5d56wd> |
```

10. Delete the products which product price value are 28

db.food.remove({product_price:{Seq:28}})

```
fsd56wd> db.food.remove({product_price:{Seq:28}})
DeprecationWarning: Collection.remove() is deprecated. Use deleteOne, deleteMany, findOneAndDelete, or bulkWrite.
{ acknowledged: true, deletedCount: 1 }
fsd56wd> db.food.deleteMany({product_price:{Seq:28}})
{ acknowledged: true, deletedCount: 0 }
fsd56wd> db.food.find()
```

```
[
  {
    _id: ObjectId('66099e1f56117816349f998a'),
    id: '1',
    product_name: 'Intelligent Fresh Chips',
    product_price: 655,
    product_material: 'Concrete',
    product_color: 'mint green'
  },
  {
    _id: ObjectId('66099e1f56117816349f998b'),
    id: '2',
    product_name: 'Practical Fresh Sausages',
    product_price: 911,
    product_material: 'Cotton',
    product_color: 'indigo'
  },
  {
    _id: ObjectId('66099e1f56117816349f998c'),
    id: '3',
    product_name: 'Refined Steel Car',
    product_price: 690,
    product_material: 'Rubber',
    product_color: 'gold'
  },
  {
    _id: ObjectId('66099e1f56117816349f998d'),
    id: '4',
    product_name: 'Gorgeous Plastic Pants',
    product_price: 492,
    product_material: 'Soft',
    product_color: 'plum'
  },
]
```

```
,
{
  _id: ObjectId('66099e1f56117816349f998e'),
  id: '5',
  product_name: 'Sleek Cotton Chair',
  product_price: 33,
  product_material: 'Fresh',
  product_color: 'black'
},
{
  _id: ObjectId('66099e1f56117816349f998f'),
  id: '6',
  product_name: 'Awesome Wooden Towels',
  product_price: 474,
  product_material: 'Plastic',
  product_color: 'orange'
},
{
  _id: ObjectId('66099e1f56117816349f9990'),
  id: '7',
  product_name: 'Practical Soft Shoes',
  product_price: 500,
  product_material: 'Rubber',
  product_color: 'pink'
},
{
  _id: ObjectId('66099e1f56117816349f9991'),
  id: '8',
  product_name: 'Incredible Steel Hat',
  product_price: 78,
  product_material: 'Rubber',
  product_color: 'violet'
},
{
  _id: ObjectId('66099e1f56117816349f9993'),
  id: '10',
  product_name: 'Generic Wooden Pizza',
  product_price: 84,
  product_material: 'Frozen',
  product_color: 'indigo'
},
]
```

```
,
{
  _id: ObjectId('66099e1f56117816349f9994'),
  id: '11',
  product_name: 'Unbranded Wooden Cheese',
  product_price: 26,
  product_material: 'Soft',
  product_color: 'black'
},
{
  _id: ObjectId('66099e1f56117816349f9995'),
  id: '12',
  product_name: 'Unbranded Plastic Salad',
  product_price: 89,
  product_material: 'Wooden',
  product_color: 'pink'
},
{
  _id: ObjectId('66099e1f56117816349f9996'),
  id: '13',
  product_name: 'Gorgeous Cotton Keyboard',
  product_price: 37,
  product_material: 'Concrete',
  product_color: 'sky blue'
},
{
  _id: ObjectId('66099e1f56117816349f9997'),
  id: '14',
  product_name: 'Incredible Steel Shirt',
  product_price: 54,
  product_material: 'Metal',
  product_color: 'white'
},
{
  _id: ObjectId('66099e1f56117816349f9998'),
  id: '15',
  product_name: 'Ergonomic Cotton Hat',
  product_price: 43,
  product_material: 'Rubber',
  product_color: 'mint green'
},
]
```

```
{
  _id: ObjectId('66099elf56117816349f9919'),
  id: '16',
  product_name: 'Small Soft Chair',
  product_price: 47,
  product_material: 'Cotton',
  product_color: 'teal'
},
{
  _id: ObjectId('66099elf56117816349f991a'),
  id: '17',
  product_name: 'Incredible Metal Car',
  product_price: 36,
  product_material: 'Fresh',
  product_color: 'indigo'
},
{
  _id: ObjectId('66099elf56117816349f991b'),
  id: '18',
  product_name: 'Licensed Plastic Bacon',
  product_price: 88,
  product_material: 'Steel',
  product_color: 'yellow'
},
{
  _id: ObjectId('66099elf56117816349f991c'),
  id: '19',
  product_name: 'Intelligent Cotton Chips',
  product_price: 46,
  product_material: 'Soft',
  product_color: 'azure'
},
{
  _id: ObjectId('66099elf56117816349f991d'),
  id: '20',
  product_name: 'Handcrafted Wooden Bacon',
  product_price: 36,
  product_material: 'Concrete',
  product_color: 'lime'
},
}
```

```
{
  _id: ObjectId('66099elf56117816349f991c'),
  id: '19',
  product_name: 'Intelligent Cotton Chips',
  product_price: 46,
  product_material: 'Soft',
  product_color: 'azure'
},
{
  _id: ObjectId('66099elf56117816349f991d'),
  id: '20',
  product_name: 'Handcrafted Wooden Bacon',
  product_price: 36,
  product_material: 'Concrete',
  product_color: 'lime'
},
{
  _id: ObjectId('66099elf56117816349f991e'),
  id: '21',
  product_name: 'Unbranded Granite Chicken',
  product_price: 98,
  product_material: 'Metal',
  product_color: 'gold'
}
}
Type "it" for more
```