

1.Find all the information about each product:

db.products.find({})

```
products> db.product.find({})
[
  {
    _id: ObjectId("65b476c095e6357007e5322b"),
    id: 1,
    product_name: 'Intelligent Fresh Chips',
    product_price: 655,
    product_material: 'concrete',
    product_color: 'mint green'
  },
  {
    _id: ObjectId("65b476c095e6357007e5322c"),
    id: 2,
    product_name: 'Practical Fresh Sausages',
    product_price: 911,
    product_material: 'cotton',
    product_color: 'indigo'
  },
  {
    _id: ObjectId("65b476c095e6357007e5322d"),
    id: 3,
    product_name: 'Refined Steel Car',
    product_price: 690,
    product_material: 'rubber',
    product_color: 'gold'
  },
  {
    _id: ObjectId("65b476c095e6357007e5322e"),
    id: 4,
    product_name: 'Gorgeous Plastic Pants',
    product_price: 492,
    product_material: 'soft',
    product_color: 'plum'
  },
  {
    _id: ObjectId("65b476c095e6357007e5322f"),
    id: 5,
    product_name: 'Sleek Cotton Chair',
    product_price: 33,
    product_material: 'fresh',
    product_color: 'black'
  },
  {
    _id: ObjectId("65b476c095e6357007e53230"),
    id: 6,
    product_name: 'Awesome Wooden Towels',
    product_price: 474,
    product_material: 'plastic',
    product_color: 'orange'
  }
]
```

2.Find the product price which is between 400 to 800:

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

```

products> db.product.find({ product_price: { $gte: 400, $lte: 800 } })
{
  _id: ObjectId("65b476c095e6357007e5322b"),
  id: 1,
  product_name: 'Intelligent Fresh Chips',
  product_price: 655,
  product_material: 'Concrete',
  product_color: 'mint green'
},
{
  _id: ObjectId("65b476c095e6357007e5322d"),
  id: 3,
  product_name: 'Refined Steel Car',
  product_price: 690,
  product_material: 'Rubber',
  product_color: 'gold'
},
{
  _id: ObjectId("65b476c095e6357007e5322e"),
  id: '4',
  product_name: 'Gorgeous Plastic Pants',
  product_price: 492,
  product_material: 'Soft',
  product_color: 'plum'
},
{
  _id: ObjectId("65b476c095e6357007e53230"),
  id: '6',
  product_name: 'Awesome Wooden Towels',
  product_price: 474,
  product_material: 'Plastic',
  product_color: 'orange'
},
{
  _id: ObjectId("65b476c095e6357007e53231"),
  id: '7',
  product_name: 'Practical Soft Shoes',
  product_price: 500,
  product_material: 'Rubber',
  product_color: 'pink'
}
products>

```

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

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

```

Select mongosh mongodtz/127.0.0.1:27017/?directConnection=true&serverSelectionTimeoutMS=2000
To exit, press Ctrl+C again or Ctrl+D or type .exit)
products> db.product.find({ product_price: { $not: { $gte: 400, $lte: 600 } } })

[
  {
    _id: ObjectId("65b476c095e6357007e5322b"),
    id: 1,
    product_name: 'Intelligent Fresh Chips',
    product_price: 655,
    product_material: 'Concrete',
    product_color: 'mint green'
  },
  {
    _id: ObjectId("65b476c095e6357007e5322c"),
    id: 2,
    product_name: 'Practical Fresh Sausages',
    product_price: 911,
    product_material: 'Cotton',
    product_color: 'indigo'
  },
  {
    _id: ObjectId("65b476c095e6357007e5322d"),
    id: 3,
    product_name: 'Refined Steel Car',
    product_price: 690,
    product_material: 'Rubber',
    product_color: 'gold'
  },
  {
    _id: ObjectId("65b476c095e6357007e5322f"),
    id: '5',
    product_name: 'Sleek Cotton Chair',
    product_price: 33,
    product_material: 'Fresh',
    product_color: 'black'
  },
  {
    _id: ObjectId("65b476c095e6357007e53232"),
    id: '8',
    product_name: 'Incredible Steel Hat',
    product_price: 78,
    product_material: 'Rubber',
    product_color: 'violet'
  },
  {
    _id: ObjectId("65b476c095e6357007e53233"),
    id: '9',
    product_name: 'Awesome Wooden Ball',
    product_price: 28,
    product_material: 'Soft',
  }
]

```

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

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

```

products> db.product.find({ product_price: { $gt: 500 } }).limit(4)
[
  {
    _id: ObjectId("65b476c095e6357007e5322b"),
    id: 1,
    product_name: 'Intelligent Fresh Chips',
    product_price: 655,
    product_material: 'Concrete',
    product_color: 'mint green'
  },
  {
    _id: ObjectId("65b476c095e6357007e5322c"),
    id: 2,
    product_name: 'Practical Fresh Sausages',
    product_price: 911,
    product_material: 'Cotton',
    product_color: 'indigo'
  },
  {
    _id: ObjectId("65b476c095e6357007e5322d"),
    id: 3,
    product_name: 'Refined Steel Car',
    product_price: 690,
    product_material: 'Rubber',
    product_color: 'gold'
  }
]
products>

```

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

```
db.product.find({}, { _id: 0, product_name: 1, product_material: 1 })
```

```
products> db.product.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'
}
```

6.Find the product with a row id of 10:

```
db.product.findOne({ _id: 10 })
```

```
products> db.product.findOne({ _id: 10 })
null
products> db.product.findOne({ _id: 1 })
null
products> db.product.findOne({ id: 1 })
{
  _id: ObjectId("65b476c095e6357007e5322b"),
  id: 1,
  product_name: 'Intelligent Fresh Chips',
  product_price: 655,
  product_material: 'Concrete',
  product_color: 'mint green'
}
```

7. Find only the product name and product material:

```
db.product.find({}, { _id: 0, product_name: 1, product_material: 1 })
```

```

products> db.product.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'
}

```

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

```
db.product.find({ product_material: /soft/i })
```

```
products> db.product.find({ product_material: "soft" })
products>
```

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

```
db.product.find({ product_color: 'indigo'},{ product_price: 492.00 })
```

```
products> db.product.find({ product_color: "indigo" },{product_price: 492.00})
[
  { _id: ObjectId("65b476c095e6357007e5322c"), product_price: 911 },
  { _id: ObjectId("65b476c095e6357007e53234"), product_price: 84 },
  { _id: ObjectId("65b476c095e6357007e5323b"), product_price: 36 },
  { _id: ObjectId("65b476c095e6357007e53243"), product_price: 20 }
]
products>
```

10. Delete the products which have the same product price value:

```
db.product.deleteMany({ product_price: { $eq: <20> } })
```

```
products> db.product.deleteMany({ product_price: { $eq: 20 } })
{ acknowledged: true, deletedCount: 1 }
products>
```