

CASE STUDY 1

1. Find all the information about each products

```
> use casestudy
< switched to db casestudy
> db["products"].find()
< {
  _id: ObjectId('6880b8b041b48e0c4b2ed590'),
  id: '1',
  product_name: 'Intelligent Fresh Chips',
  product_price: 655,
  product_material: 'Concrete',
  product_color: 'mint green'
}
{
  _id: ObjectId('6880b8b041b48e0c4b2ed591'),
  id: '2',
  product_name: 'Practical Fresh Sausages',
  product_price: 911,
  product_material: 'Cotton',
  product_color: 'indigo'
}
{
  _id: ObjectId('6880b8b041b48e0c4b2ed592'),
  id: '3',
  product_name: 'Refined Steel Car',
  product_price: 690,
  product_material: 'Rubber',
  product_color: 'gold'
}
```

```
{
  _id: ObjectId('6880b8b041b48e0c4b2ed593'),
  id: '4',
  product_name: 'Gorgeous Plastic Pants',
  product_price: 492,
  product_material: 'Soft',
  product_color: 'plum'
}
{
  _id: ObjectId('6880b8b041b48e0c4b2ed594'),
  id: '5',
  product_name: 'Sleek Cotton Chair',
  product_price: 33,
  product_material: 'Fresh',
  product_color: 'black'
}
{
  _id: ObjectId('6880b8b041b48e0c4b2ed595'),
  id: '6',
  product_name: 'Awesome Wooden Towels',
  product_price: 474,
  product_material: 'Plastic',
  product_color: 'orange'
}
```

```
{
  _id: ObjectId('6880b8b041b48e0c4b2ed596'),
  id: '7',
  product_name: 'Practical Soft Shoes',
  product_price: 500,
  product_material: 'Rubber',
  product_color: 'pink'
}
{
  _id: ObjectId('6880b8b041b48e0c4b2ed597'),
  id: '8',
  product_name: 'Incredible Steel Hat',
  product_price: 78,
  product_material: 'Rubber',
  product_color: 'violet'
}
{
  _id: ObjectId('6880b8b041b48e0c4b2ed598'),
  id: '9',
  product_name: 'Awesome Wooden Ball',
  product_price: 28,
  product_material: 'Soft',
  product_color: 'azure'
}
```

```
{
  _id: ObjectId('6880b8b041b48e0c4b2ed599'),
  id: '10',
  product_name: 'Generic Wooden Pizza',
  product_price: 84,
  product_material: 'Frozen',
  product_color: 'indigo'
}
{
  _id: ObjectId('6880b8b041b48e0c4b2ed59a'),
  id: '11',
  product_name: 'Unbranded Wooden Cheese',
  product_price: 26,
  product_material: 'Soft',
  product_color: 'black'
}
{
  _id: ObjectId('6880b8b041b48e0c4b2ed59b'),
  id: '12',
  product_name: 'Unbranded Plastic Salad',
  product_price: 89,
  product_material: 'Wooden',
  product_color: 'pink'
}
```

```
{
  _id: ObjectId('6880b8b041b48e0c4b2ed59c'),
  id: '13',
  product_name: 'Gorgeous Cotton Keyboard',
  product_price: 37,
  product_material: 'Concrete',
  product_color: 'sky blue'
}
{
  _id: ObjectId('6880b8b041b48e0c4b2ed59d'),
  id: '14',
  product_name: 'Incredible Steel Shirt',
  product_price: 54,
  product_material: 'Metal',
  product_color: 'white'
}
{
  _id: ObjectId('6880b8b041b48e0c4b2ed59e'),
  id: '15',
  product_name: 'Ergonomic Cotton Hat',
  product_price: 43,
  product_material: 'Rubber',
  product_color: 'mint green'
}
```

```
{
  _id: ObjectId('6880b8b041b48e0c4b2ed59f'),
  id: '16',
  product_name: 'Small Soft Chair',
  product_price: 47,
  product_material: 'Cotton',
  product_color: 'teal'
}
{
  _id: ObjectId('6880b8b041b48e0c4b2ed5a0'),
  id: '17',
  product_name: 'Incredible Metal Car',
  product_price: 36,
  product_material: 'Fresh',
  product_color: 'indigo'
}
{
  _id: ObjectId('6880b8b041b48e0c4b2ed5a1'),
  id: '18',
  product_name: 'Licensed Plastic Bacon',
  product_price: 88,
  product_material: 'Steel',
  product_color: 'yellow'
}
```

```
< {
  _id: ObjectId('6880b8b041b48e0c4b2ed5a4'),
  id: '21',
  product_name: 'Unbranded Granite Chicken',
  product_price: 90,
  product_material: 'Metal',
  product_color: 'gold'
}
{
  _id: ObjectId('6880b8b041b48e0c4b2ed5a5'),
  id: '22',
  product_name: 'Ergonomic Soft Hat',
  product_price: 99,
  product_material: 'Rubber',
  product_color: 'black'
}
{
  _id: ObjectId('6880b8b041b48e0c4b2ed5a6'),
  id: '23',
  product_name: 'Intelligent Steel Pizza',
  product_price: 95,
  product_material: 'Cotton',
  product_color: 'azure'
}
```

```
{
  _id: ObjectId('6880b8b041b48e0c4b2ed5a2'),
  id: '19',
  product_name: 'Intelligent Cotton Chips',
  product_price: 46,
  product_material: 'Soft',
  product_color: 'azure'
}
{
  _id: ObjectId('6880b8b041b48e0c4b2ed5a3'),
  id: '20',
  product_name: 'Handcrafted Wooden Bacon',
  product_price: 36,
  product_material: 'Concrete',
  product_color: 'lime'
}
```

```

{
  _id: ObjectId('6880b8b041b48e0c4b2ed5a7'),
  id: '24',
  product_name: 'Tasty Rubber Cheese',
  product_price: 47,
  product_material: 'Frozen',
  product_color: 'orchid'
}
{
  _id: ObjectId('6880b8b041b48e0c4b2ed5a8'),
  id: '25',
  product_name: 'Licensed Steel Car',
  product_price: 20,
  product_material: 'Cotton',
  product_color: 'indigo'
}
casestudy>

```

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

```

> db["products"].find({ "product_price":{ "$gte": 400, "$lte": 800 }}).sort( { "product_price":1})
< {
  _id: ObjectId('6880b8b041b48e0c4b2ed595'),
  id: '6',
  product_name: 'Awesome Wooden Towels',
  product_price: 474,
  product_material: 'Plastic',
  product_color: 'orange'
}
{
  _id: ObjectId('6880b8b041b48e0c4b2ed593'),
  id: '4',
  product_name: 'Gorgeous Plastic Pants',
  product_price: 492,
  product_material: 'Soft',
  product_color: 'plum'
}
{
  _id: ObjectId('6880b8b041b48e0c4b2ed596'),
  id: '7',
  product_name: 'Practical Soft Shoes',
  product_price: 500,
  product_material: 'Rubber',
  product_color: 'pink'
}

```

```

{
  _id: ObjectId('6880b8b041b48e0c4b2ed590'),
  id: '1',
  product_name: 'Intelligent Fresh Chips',
  product_price: 655,
  product_material: 'Concrete',
  product_color: 'mint green'
}
{
  _id: ObjectId('6880b8b041b48e0c4b2ed592'),
  id: '3',
  product_name: 'Refined Steel Car',
  product_price: 690,
  product_material: 'Rubber',
  product_color: 'gold'
}
casestudy> |

```

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

```

>_MONGOSH
> db["products"].find({ "product_price":{"$not":{ "$gte": 400, "$lte": 600}}}).sort( { "product_price":1})
< {
  _id: ObjectId('6880b8b041b48e0c4b2ed5a8'),
  id: '25',
  product_name: 'Licensed Steel Car',
  product_price: 20,
  product_material: 'Cotton',
  product_color: 'indigo'
}
{
  _id: ObjectId('6880b8b041b48e0c4b2ed59a'),
  id: '11',
  product_name: 'Unbranded Wooden Cheese',
  product_price: 26,
  product_material: 'Soft',
  product_color: 'black'
}
{
  _id: ObjectId('6880b8b041b48e0c4b2ed598'),
  id: '9',
  product_name: 'Awesome Wooden Ball',
  product_price: 28,
  product_material: 'Soft',
  product_color: 'azure'
}

```

```
{
  _id: ObjectId('6880b8b041b48e0c4b2ed594'),
  id: '5',
  product_name: 'Sleek Cotton Chair',
  product_price: 33,
  product_material: 'Fresh',
  product_color: 'black'
}
{
  _id: ObjectId('6880b8b041b48e0c4b2ed5a0'),
  id: '17',
  product_name: 'Incredible Metal Car',
  product_price: 36,
  product_material: 'Fresh',
  product_color: 'indigo'
}
{
  _id: ObjectId('6880b8b041b48e0c4b2ed5a3'),
  id: '20',
  product_name: 'Handcrafted Wooden Bacon',
  product_price: 36,
  product_material: 'Concrete',
  product_color: 'lime'
}
```

```
{
  _id: ObjectId('6880b8b041b48e0c4b2ed59c'),
  id: '13',
  product_name: 'Gorgeous Cotton Keyboard',
  product_price: 37,
  product_material: 'Concrete',
  product_color: 'sky blue'
}
{
  _id: ObjectId('6880b8b041b48e0c4b2ed59e'),
  id: '15',
  product_name: 'Ergonomic Cotton Hat',
  product_price: 43,
  product_material: 'Rubber',
  product_color: 'mint green'
}
{
  _id: ObjectId('6880b8b041b48e0c4b2ed5a2'),
  id: '19',
  product_name: 'Intelligent Cotton Chips',
  product_price: 46,
  product_material: 'Soft',
  product_color: 'azure'
}
```

```

{
  _id: ObjectId('6880b8b041b48e0c4b2ed59f'),
  id: '16',
  product_name: 'Small Soft Chair',
  product_price: 47,
  product_material: 'Cotton',
  product_color: 'teal'
}
{
  _id: ObjectId('6880b8b041b48e0c4b2ed5a7'),
  id: '24',
  product_name: 'Tasty Rubber Cheese',
  product_price: 47,
  product_material: 'Frozen',
  product_color: 'orchid'
}
{
  _id: ObjectId('6880b8b041b48e0c4b2ed59d'),
  id: '14',
  product_name: 'Incredible Steel Shirt',
  product_price: 54,
  product_material: 'Metal',
  product_color: 'white'
}

```

```

{
  _id: ObjectId('6880b8b041b48e0c4b2ed597'),
  id: '8',
  product_name: 'Incredible Steel Hat',
  product_price: 78,
  product_material: 'Rubber',
  product_color: 'violet'
}
{
  _id: ObjectId('6880b8b041b48e0c4b2ed599'),
  id: '10',
  product_name: 'Generic Wooden Pizza',
  product_price: 84,
  product_material: 'Frozen',
  product_color: 'indigo'
}
{
  _id: ObjectId('6880b8b041b48e0c4b2ed5a1'),
  id: '18',
  product_name: 'Licensed Plastic Bacon',
  product_price: 88,
  product_material: 'Steel',
  product_color: 'yellow'
}

```



```
{
  _id: ObjectId('6880b8b041b48e0c4b2ed59b'),
  id: '12',
  product_name: 'Unbranded Plastic Salad',
  product_price: 89,
  product_material: 'Wooden',
  product_color: 'pink'
}
{
  _id: ObjectId('6880b8b041b48e0c4b2ed5a4'),
  id: '21',
  product_name: 'Unbranded Granite Chicken',
  product_price: 90,
  product_material: 'Metal',
  product_color: 'gold'
}
{
  _id: ObjectId('6880b8b041b48e0c4b2ed5a6'),
  id: '23',
  product_name: 'Intelligent Steel Pizza',
  product_price: 95,
  product_material: 'Cotton',
  product_color: 'azure'
}
```

```
{
  _id: ObjectId('6880b8b041b48e0c4b2ed5a5'),
  id: '22',
  product_name: 'Ergonomic Soft Hat',
  product_price: 99,
  product_material: 'Rubber',
  product_color: 'black'
}
{
  _id: ObjectId('6880b8b041b48e0c4b2ed590'),
  id: '1',
  product_name: 'Intelligent Fresh Chips',
  product_price: 655,
  product_material: 'Concrete',
  product_color: 'mint green'
}
```

Type "it" for more
casestudy> |

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

```
> db.products.find(
  { "product_price": { "$gt": 500 } }
).sort({ "product_price": 1 }).limit(4)
< {
  _id: ObjectId('6880b8b041b48e0c4b2ed590'),
  id: '1',
  product_name: 'Intelligent Fresh Chips',
  product_price: 655,
  product_material: 'Concrete',
  product_color: 'mint green'
}
{
  _id: ObjectId('6880b8b041b48e0c4b2ed592'),
  id: '3',
  product_name: 'Refined Steel Car',
  product_price: 690,
  product_material: 'Rubber',
  product_color: 'gold'
}
{
  _id: ObjectId('6880b8b041b48e0c4b2ed591'),
  id: '2',
  product_name: 'Practical Fresh Sausages',
  product_price: 911,
  product_material: 'Cotton',
  product_color: 'indigo'
}
casestudy >
```

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

```
> db["products"].find({},{"product_name":1,"_id":0,"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'
}
```

```
< {
  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'
}
}
casestudy> |
```

6. Find the product with a row id of 10

```
> db.products.find({ "id": "10" })
< {
  _id: ObjectId('6880b8b041b48e0c4b2ed599'),
  id: '10',
  product_name: 'Generic Wooden Pizza',
  product_price: 84,
  product_material: 'Frozen',
  product_color: 'indigo'
}
casestudy> |
```

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

```
> db.products.find({ "product_color": "indigo", "product_price": 492.00 })
<
casestudy> |
```