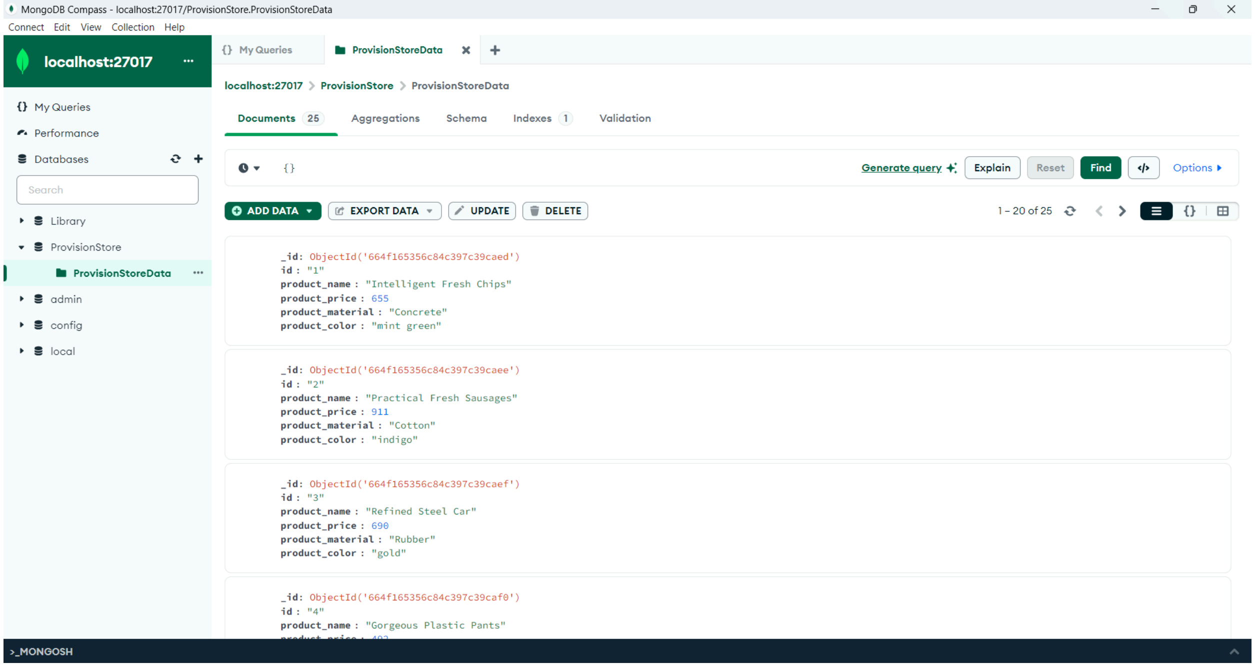
MongoDB Task - 1 For the following question write the corresponding MongoDB queries

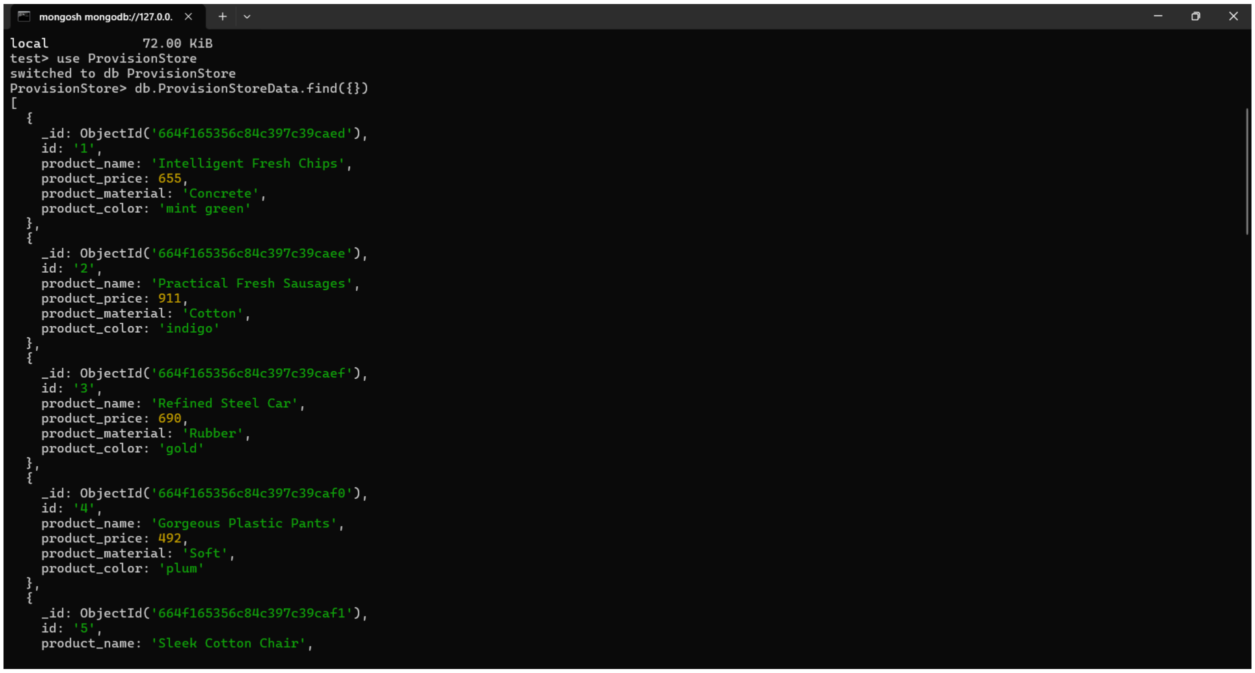
1.Find all the information about each products

MongoDB Compass Execution:



```
_id: ObjectId('664f165356c84c397c39caed')
id : "1"
product_name : "Intelligent Fresh Chips"
product_price : 655
product_material : "Concrete"
product_color : "mint green"

_id: ObjectId('664f165356c84c397c39caee')
id : "2"
product_name : "Practical Fresh Sausages"
product_price : 911
product_material : "Cotton"
product_color : "indigo"

_id: ObjectId('664f165356c84c397c39caef')
id : "3"
product_name : "Refined Steel Car"
product_price : 690
product_material : "Rubber"
product_color : "gold"

_id: ObjectId('664f165356c84c397c39caf0')
id : "4"
product_name : "Gorgeous Plastic Pants"
```

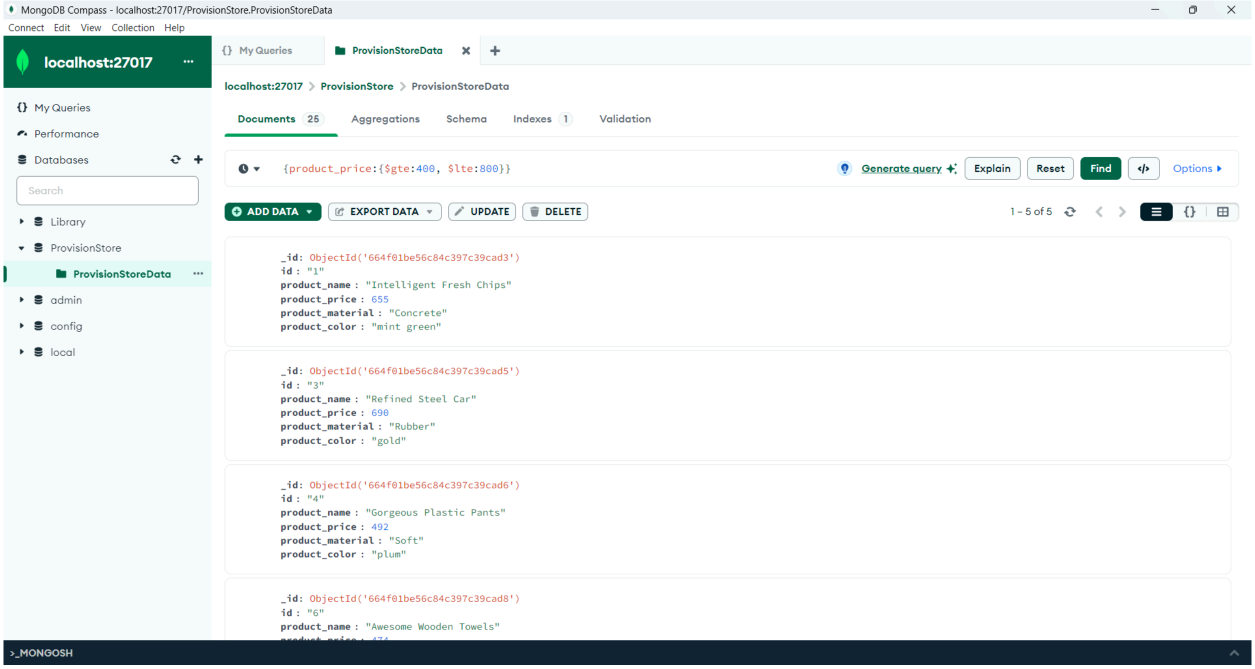
Shell Execution:



```
local            72.00 KiB
test> use ProvisionStore
switched to db ProvisionStore
ProvisionStore> db.ProvisionStoreData.find({})
[
  {
    _id: ObjectId('664f165356c84c397c39caed'),
    id: '1',
    product_name: 'Intelligent Fresh Chips',
    product_price: 655,
    product_material: 'Concrete',
    product_color: 'mint green'
  },
  {
    _id: ObjectId('664f165356c84c397c39caee'),
    id: '2',
    product_name: 'Practical Fresh Sausages',
    product_price: 911,
    product_material: 'Cotton',
    product_color: 'indigo'
  },
  {
    _id: ObjectId('664f165356c84c397c39caef'),
    id: '3',
    product_name: 'Refined Steel Car',
    product_price: 690,
    product_material: 'Rubber',
    product_color: 'gold'
  },
  {
    _id: ObjectId('664f165356c84c397c39caf0'),
    id: '4',
    product_name: 'Gorgeous Plastic Pants',
    product_price: 492,
    product_material: 'Soft',
    product_color: 'plum'
  },
  {
    _id: ObjectId('664f165356c84c397c39caf1'),
    id: '5',
    product_name: 'Sleek Cotton Chair',
```

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

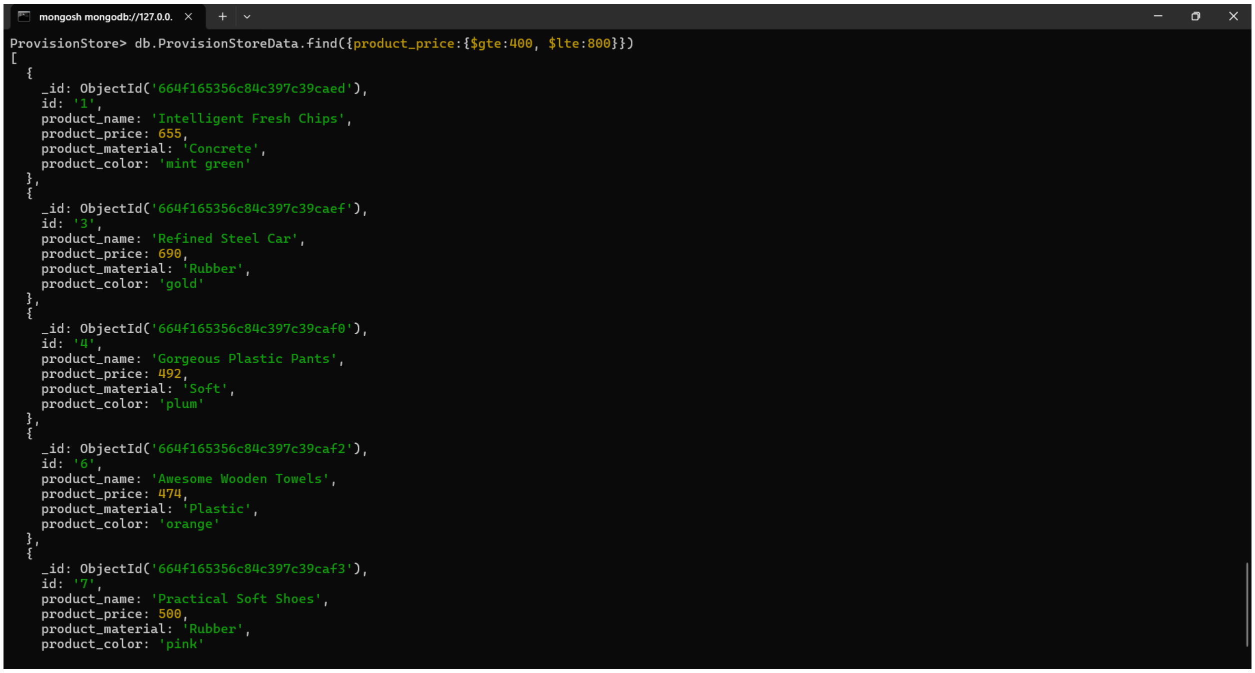
MongoDB Compass Execution:



```
{product_price:{$gte:400, $lte:800}}
```

```
_id: ObjectId('664f01be56c84c397c39cad3')
id : "1"
product_name : "Intelligent Fresh Chips"
product_price : 655
product_material : "Concrete"
product_color : "mint green"

_id: ObjectId('664f01be56c84c397c39cad5')
id : "3"
product_name : "Refined Steel Car"
product_price : 690
product_material : "Rubber"
product_color : "gold"

_id: ObjectId('664f01be56c84c397c39cad6')
id : "4"
product_name : "Gorgeous Plastic Pants"
product_price : 492
product_material : "Soft"
product_color : "plum"

_id: ObjectId('664f01be56c84c397c39cad8')
id : "6"
product_name : "Awesome Wooden Towels"
```

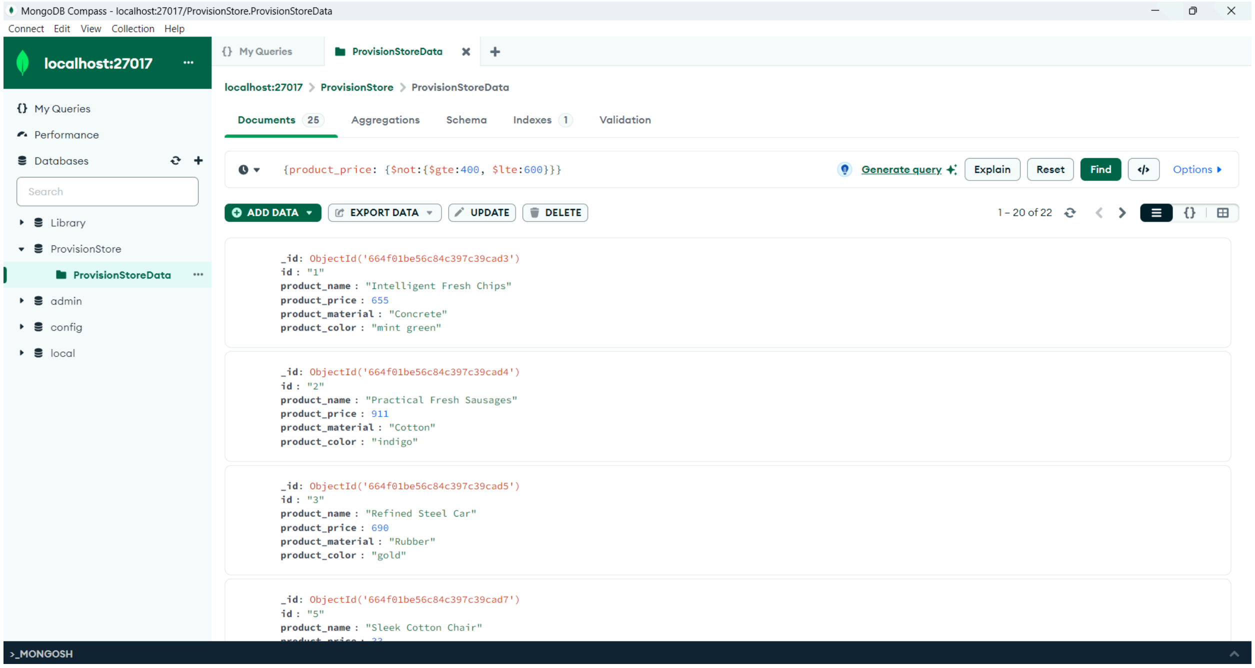
Shell Execution:



```
ProvisionStore> db.ProvisionStoreData.find({product_price:{$gte:400, $lte:800}})
[
  {
    _id: ObjectId('664f165356c84c397c39caed'),
    id: '1',
    product_name: 'Intelligent Fresh Chips',
    product_price: 655,
    product_material: 'Concrete',
    product_color: 'mint green'
  },
  {
    _id: ObjectId('664f165356c84c397c39caef'),
    id: '3',
    product_name: 'Refined Steel Car',
    product_price: 690,
    product_material: 'Rubber',
    product_color: 'gold'
  },
  {
    _id: ObjectId('664f165356c84c397c39caf0'),
    id: '4',
    product_name: 'Gorgeous Plastic Pants',
    product_price: 492,
    product_material: 'Soft',
    product_color: 'plum'
  },
  {
    _id: ObjectId('664f165356c84c397c39caf2'),
    id: '6',
    product_name: 'Awesome Wooden Towels',
    product_price: 474,
    product_material: 'Plastic',
    product_color: 'orange'
  },
  {
    _id: ObjectId('664f165356c84c397c39caf3'),
    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 to 600

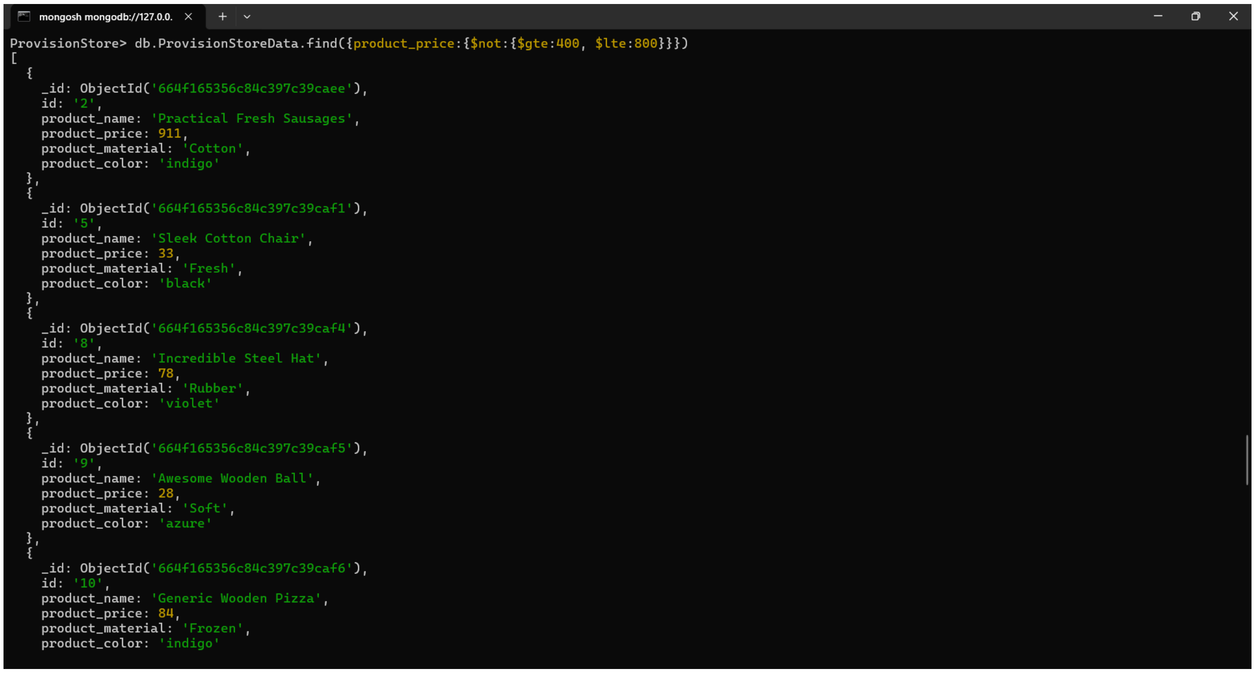
MongoDB Compass Execution:



```
{product_price: {$not:{$gte:400, $lte:600}}}
```

```
_id: ObjectId('664f01be56c84c397c39cad3')
id : "1"
product_name : "Intelligent Fresh Chips"
product_price : 655
product_material : "Concrete"
product_color : "mint green"

_id: ObjectId('664f01be56c84c397c39cad4')
id : "2"
product_name : "Practical Fresh Sausages"
product_price : 911
product_material : "Cotton"
product_color : "indigo"

_id: ObjectId('664f01be56c84c397c39cad5')
id : "3"
product_name : "Refined Steel Car"
product_price : 690
product_material : "Rubber"
product_color : "gold"

_id: ObjectId('664f01be56c84c397c39cad7')
id : "5"
product_name : "Sleek Cotton Chair"
product_price : 33
```

Shell Execution:

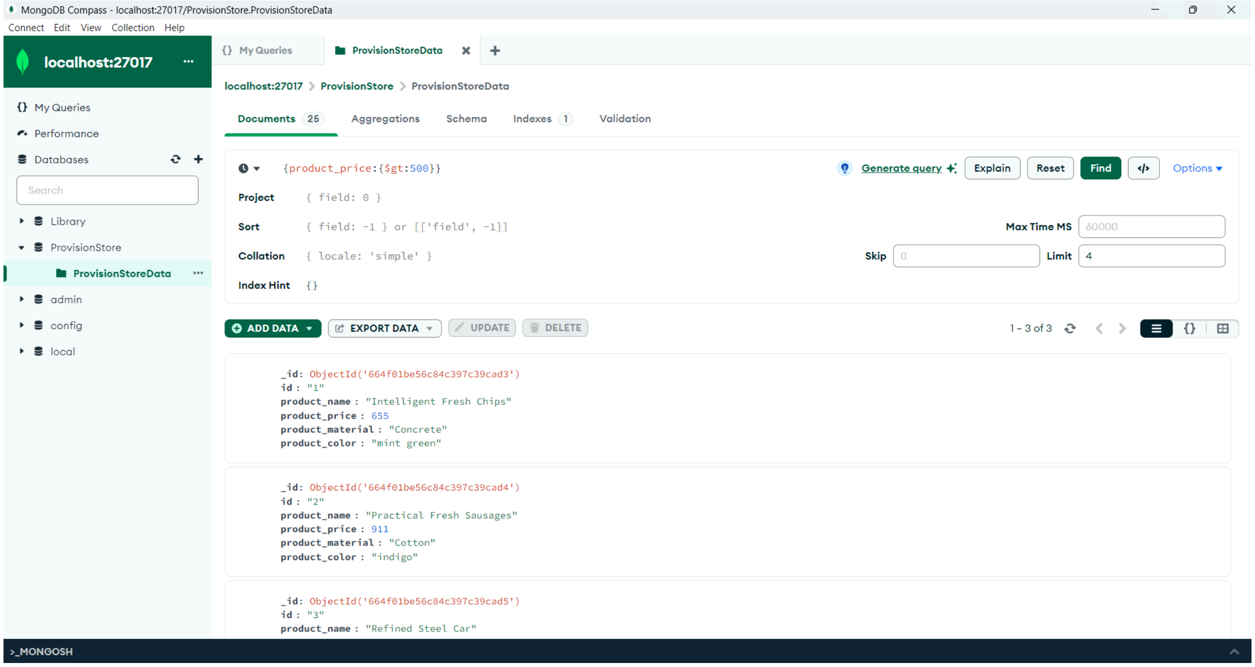


```
ProvisionStore> db.ProvisionStoreData.find({product_price:{$not:{$gte:400, $lte:800}}})
[
  {
    _id: ObjectId('664f165356c84c397c39caee'),
    id: '2',
    product_name: 'Practical Fresh Sausages',
    product_price: 911,
    product_material: 'Cotton',
    product_color: 'indigo'
  },
  {
    _id: ObjectId('664f165356c84c397c39caf1'),
    id: '5',
    product_name: 'Sleek Cotton Chair',
    product_price: 33,
    product_material: 'Fresh',
    product_color: 'black'
  },
  {
    _id: ObjectId('664f165356c84c397c39caf4'),
    id: '8',
    product_name: 'Incredible Steel Hat',
    product_price: 78,
    product_material: 'Rubber',
    product_color: 'violet'
  },
  {
    _id: ObjectId('664f165356c84c397c39caf5'),
    id: '9',
    product_name: 'Awesome Wooden Ball',
    product_price: 28,
    product_material: 'Soft',
    product_color: 'azure'
  },
  {
    _id: ObjectId('664f165356c84c397c39caf6'),
    id: '10',
    product_name: 'Generic Wooden Pizza',
    product_price: 84,
    product_material: 'Frozen',
    product_color: 'indigo'
```

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

MongoDB Compass Execution:

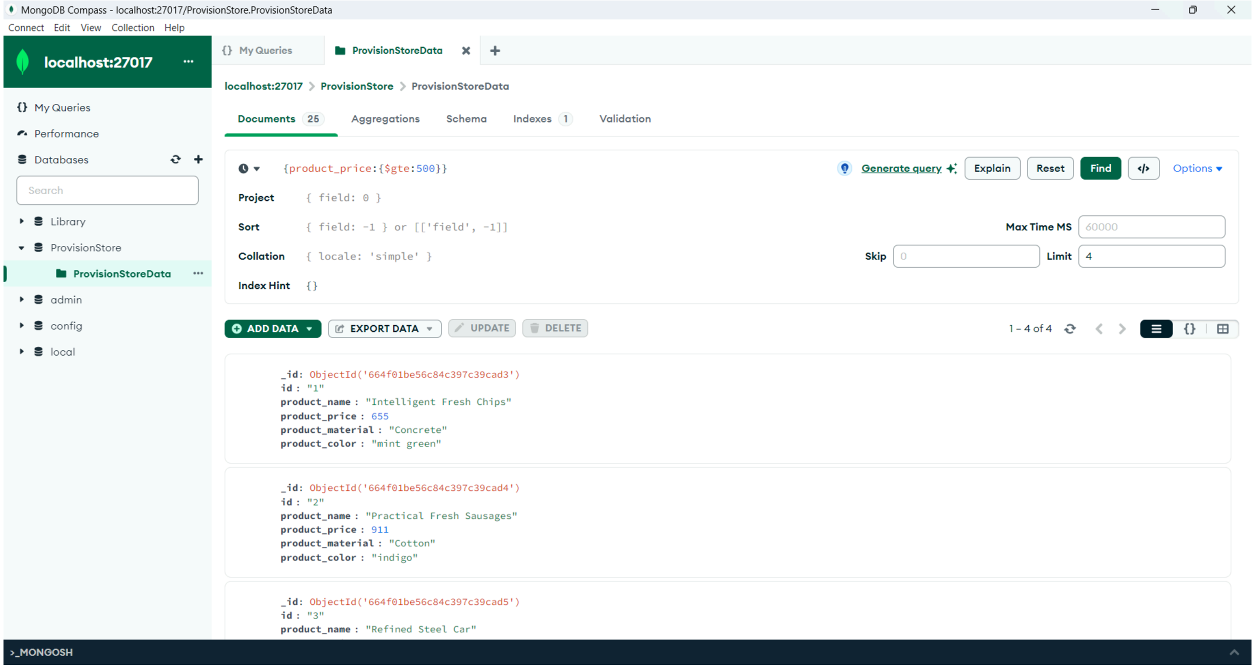
Greater Than 500:



```
{product_price:{$gt:500}}
Project     { field: 0 }
Sort        { field: -1 } or [['field', -1]]        Max Time MS  60000
Collation   { locale: 'simple' }                    Skip  0    Limit  4
Index Hint  {}
```

```
_id: ObjectId('664f01be56c84c397c39cad3')
id : "1"
product_name : "Intelligent Fresh Chips"
product_price : 655
product_material : "Concrete"
product_color : "mint green"

_id: ObjectId('664f01be56c84c397c39cad4')
id : "2"
product_name : "Practical Fresh Sausages"
product_price : 911
product_material : "Cotton"
product_color : "indigo"

_id: ObjectId('664f01be56c84c397c39cad5')
id : "3"
product_name : "Refined Steel Car"
```

Greater Than or Equal To 500:

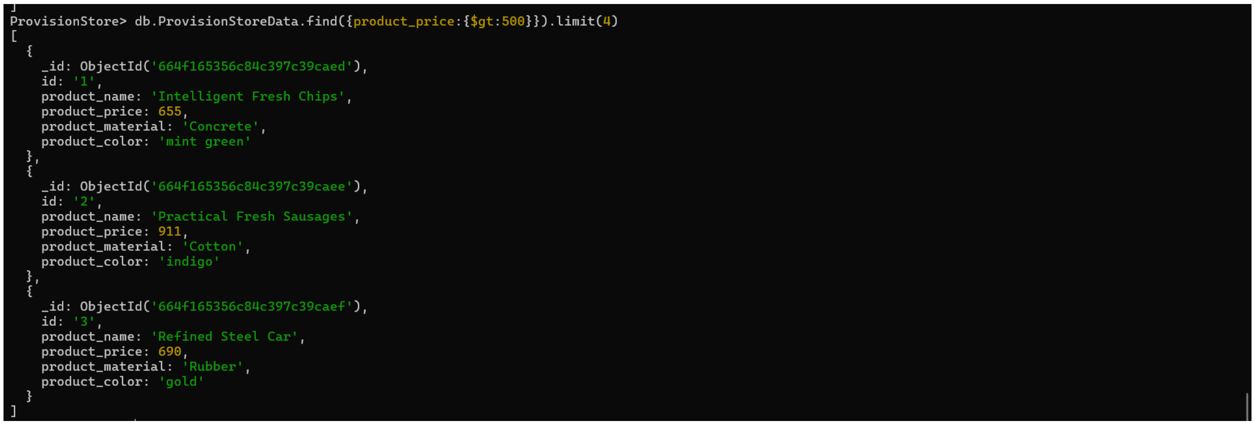


```
{product_price:{$gte:500}}
Project     { field: 0 }
Sort        { field: -1 } or [['field', -1]]        Max Time MS  60000
Collation   { locale: 'simple' }                    Skip  0    Limit  4
Index Hint  {}
```

```
_id: ObjectId('664f01be56c84c397c39cad3')
id : "1"
product_name : "Intelligent Fresh Chips"
product_price : 655
product_material : "Concrete"
product_color : "mint green"

_id: ObjectId('664f01be56c84c397c39cad4')
id : "2"
product_name : "Practical Fresh Sausages"
product_price : 911
product_material : "Cotton"
product_color : "indigo"

_id: ObjectId('664f01be56c84c397c39cad5')
id : "3"
product_name : "Refined Steel Car"
```

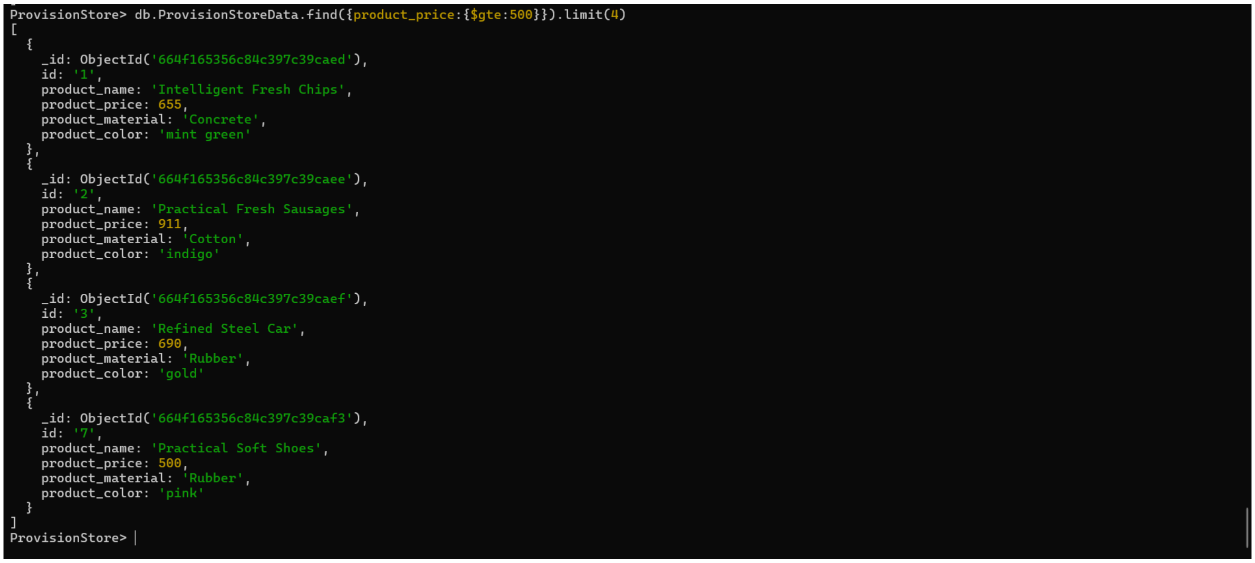
Shell Execution:

Greater Than 500:



```
]
ProvisionStore> db.ProvisionStoreData.find({product_price:{$gt:500}}).limit(4)
[
  {
    _id: ObjectId('664f165356c84c397c39caed'),
    id: '1',
    product_name: 'Intelligent Fresh Chips',
    product_price: 655,
    product_material: 'Concrete',
    product_color: 'mint green'
  },
  {
    _id: ObjectId('664f165356c84c397c39caee'),
    id: '2',
    product_name: 'Practical Fresh Sausages',
    product_price: 911,
    product_material: 'Cotton',
    product_color: 'indigo'
  },
  {
    _id: ObjectId('664f165356c84c397c39caef'),
    id: '3',
    product_name: 'Refined Steel Car',
    product_price: 690,
    product_material: 'Rubber',
    product_color: 'gold'
  }
]
```

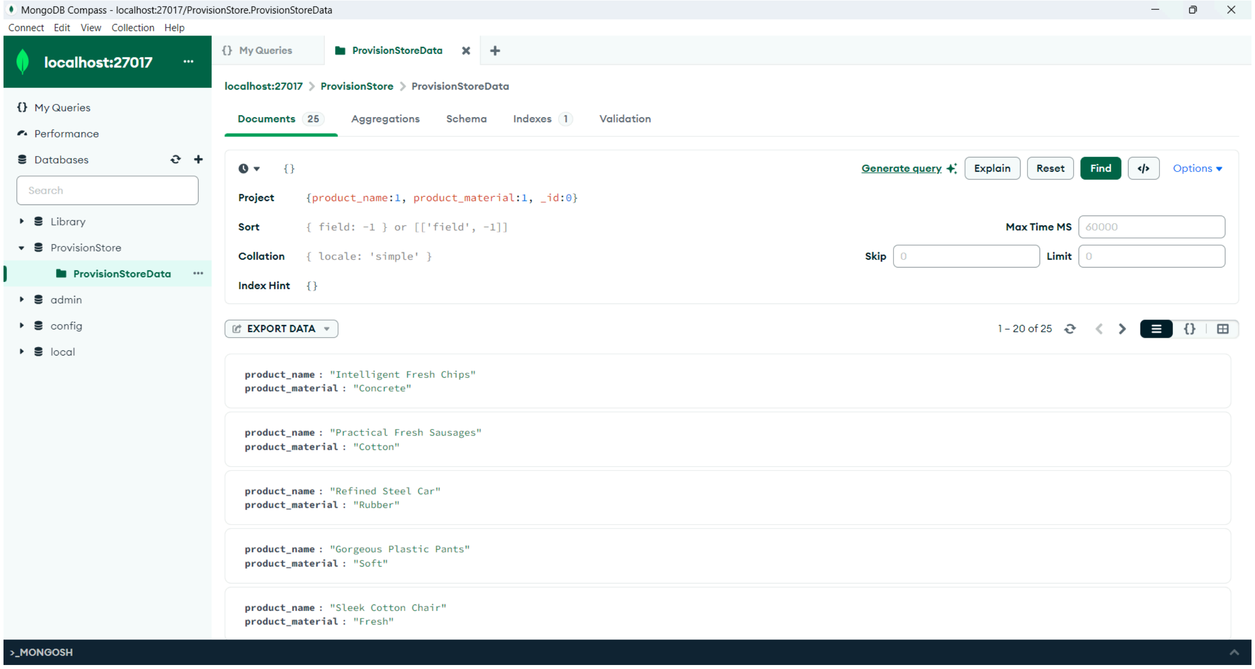
Greater Than or Equal To 500:



```
ProvisionStore> db.ProvisionStoreData.find({product_price:{$gte:500}}).limit(4)
[
  {
    _id: ObjectId('664f165356c84c397c39caed'),
    id: '1',
    product_name: 'Intelligent Fresh Chips',
    product_price: 655,
    product_material: 'Concrete',
    product_color: 'mint green'
  },
  {
    _id: ObjectId('664f165356c84c397c39caee'),
    id: '2',
    product_name: 'Practical Fresh Sausages',
    product_price: 911,
    product_material: 'Cotton',
    product_color: 'indigo'
  },
  {
    _id: ObjectId('664f165356c84c397c39caef'),
    id: '3',
    product_name: 'Refined Steel Car',
    product_price: 690,
    product_material: 'Rubber',
    product_color: 'gold'
  },
  {
    _id: ObjectId('664f165356c84c397c39caf3'),
    id: '7',
    product_name: 'Practical Soft Shoes',
    product_price: 500,
    product_material: 'Rubber',
    product_color: 'pink'
  }
]
ProvisionStore> |
```

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

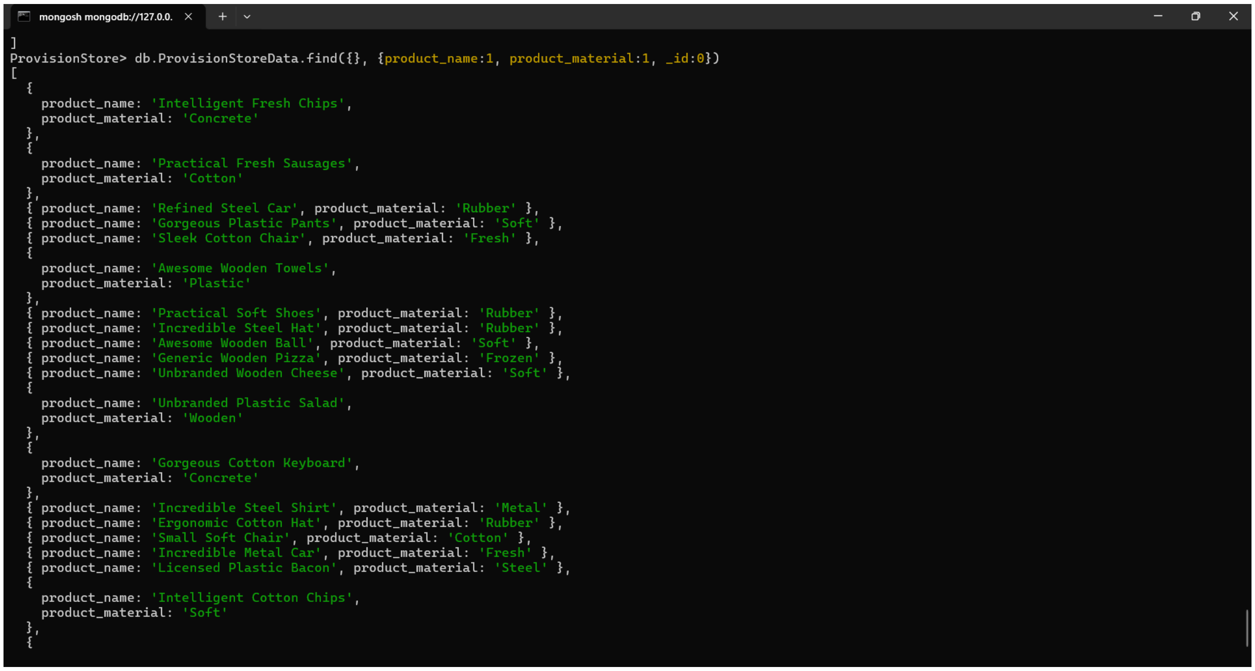
MongoDB Compass Execution:



```
Project     {product_name:1, product_material:1, _id:0}
Sort        { field: -1 } or [['field', -1]]
Collation   { locale: 'simple' }
Index Hint  {}
Max Time MS 60000
Skip 0      Limit 0
```

```
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"
```

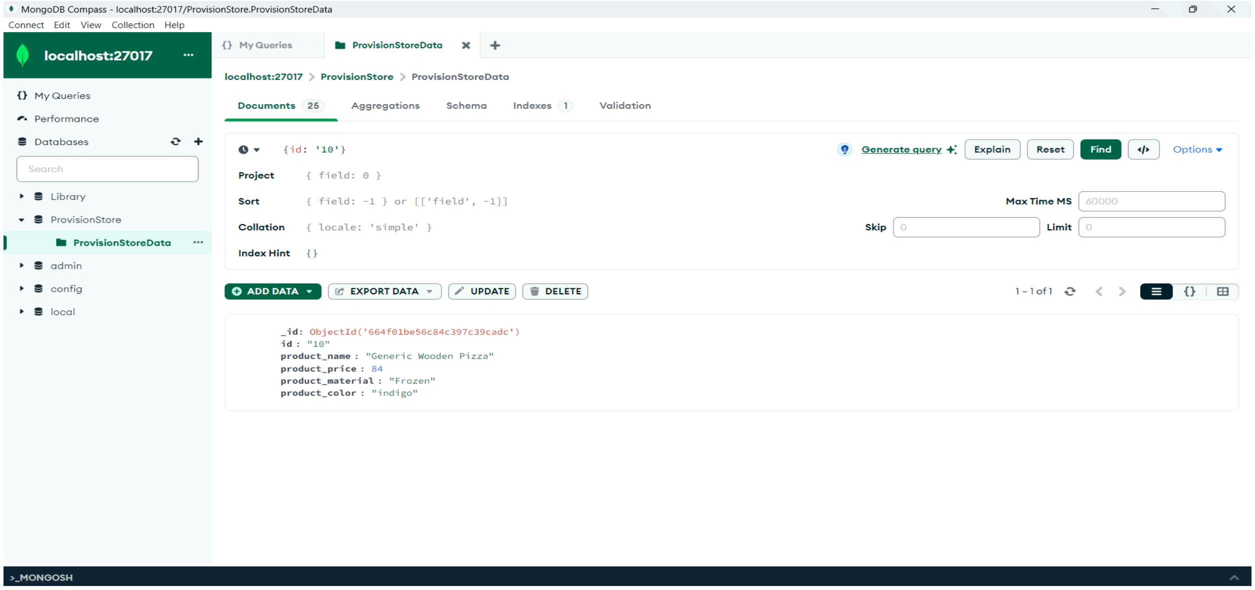
Shell Execution:



```
]
ProvisionStore> db.ProvisionStoreData.find({}, {product_name:1, product_material:1, _id:0})
[
  {
    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'
  },
  {
```

6.Find the product with a row id of 10

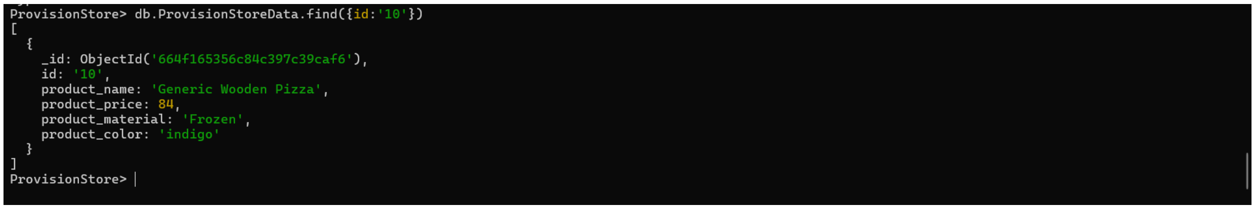
MongoDB Compass Execution:



```
{id: '10'}
Project     { field: 0 }
Sort        { field: -1 } or [['field', -1]]
Collation   { locale: 'simple' }
Index Hint  {}
Max Time MS 60000
Skip 0
Limit 0
```

```
_id: ObjectId('664f01be56c84c397c39cadc')
id : "10"
product_name : "Generic Wooden Pizza"
product_price : 84
product_material : "Frozen"
product_color : "indigo"
```

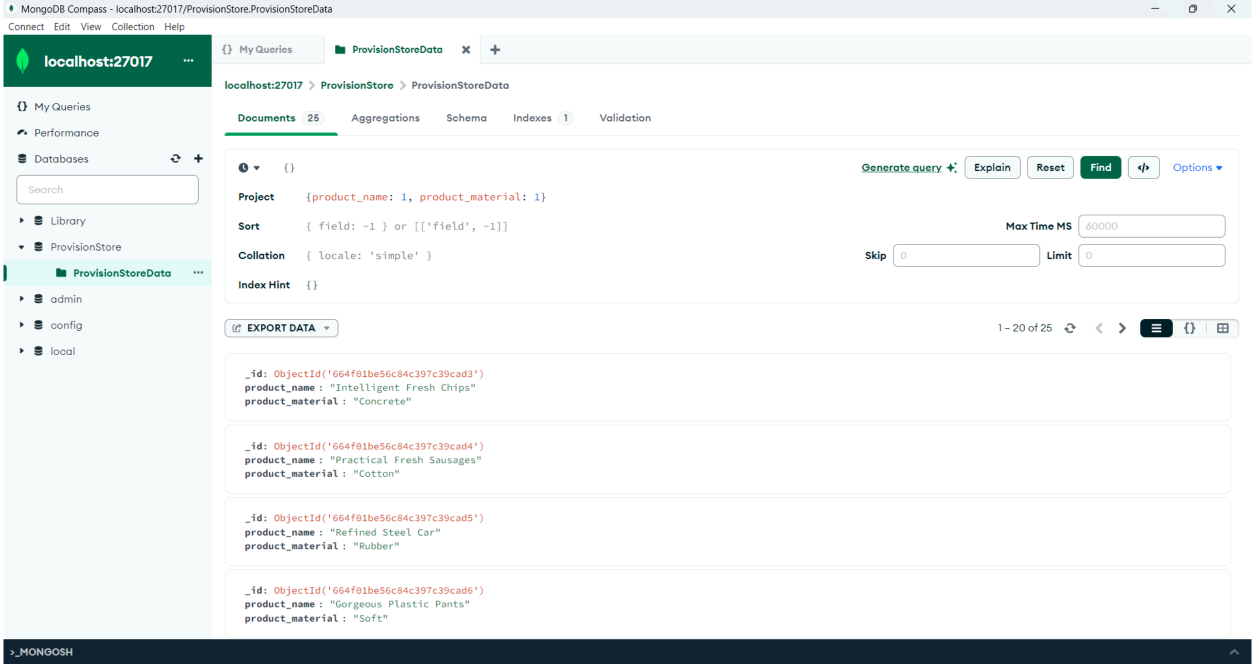
Shell Execution:



```
ProvisionStore> db.ProvisionStoreData.find({id:'10'})
[
  {
    _id: ObjectId('664f165356c84c397c39caf6'),
    id: '10',
    product_name: 'Generic Wooden Pizza',
    product_price: 84,
    product_material: 'Frozen',
    product_color: 'indigo'
  }
]
ProvisionStore> 
```

7.Find only the product name and product material

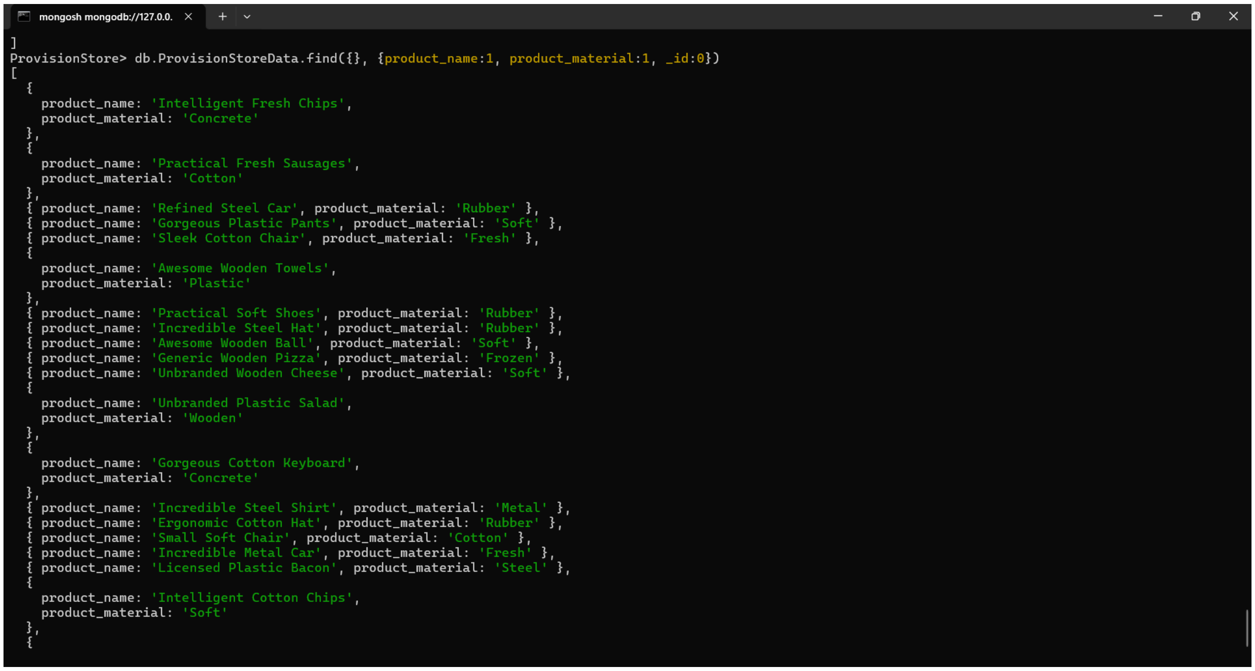
MongoDB Compass Execution:



```
{}
Project      {product_name: 1, product_material: 1}
Sort         { field: -1 } or [['field', -1]]            Max Time MS  60000
Collation    { locale: 'simple' }                 Skip  0          Limit  0
Index Hint   {}
```

```
_id: ObjectId('664f01be56c84c397c39cad3')
product_name : "Intelligent Fresh Chips"
product_material : "Concrete"

_id: ObjectId('664f01be56c84c397c39cad4')
product_name : "Practical Fresh Sausages"
product_material : "Cotton"

_id: ObjectId('664f01be56c84c397c39cad5')
product_name : "Refined Steel Car"
product_material : "Rubber"

_id: ObjectId('664f01be56c84c397c39cad6')
product_name : "Gorgeous Plastic Pants"
product_material : "Soft"
```

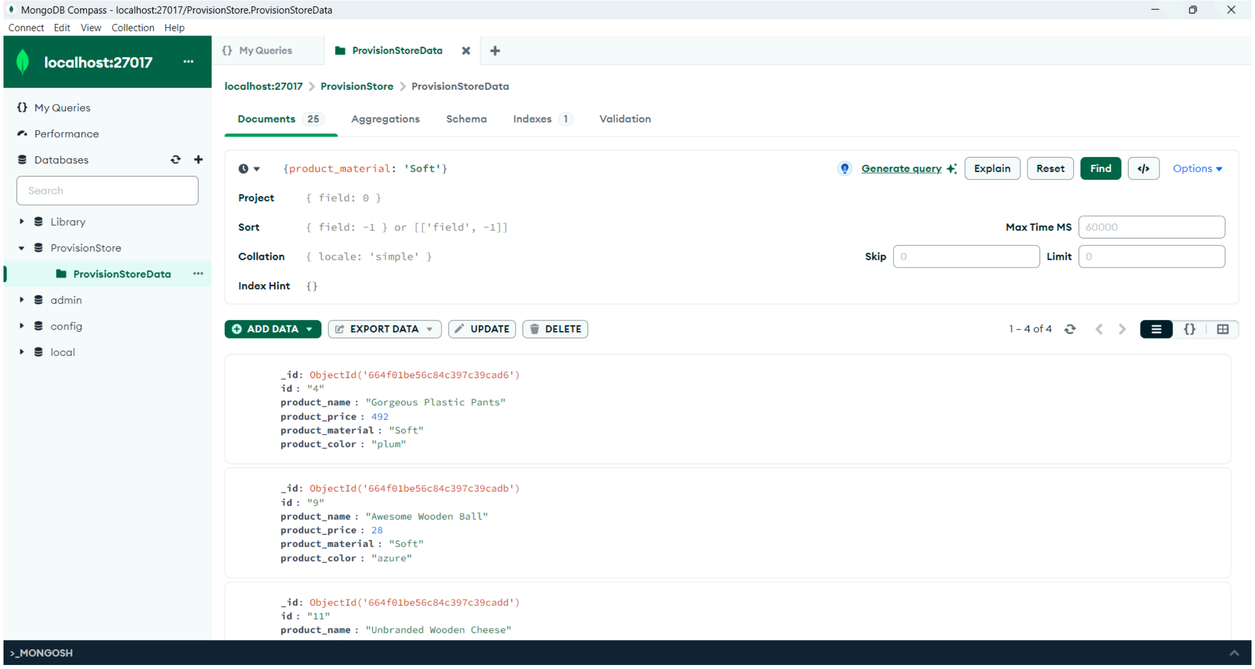
Shell Execution:



```
]
ProvisionStore> db.ProvisionStoreData.find({}, {product_name:1, product_material:1, _id:0})
[
  {
    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'
  },
  {
```

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

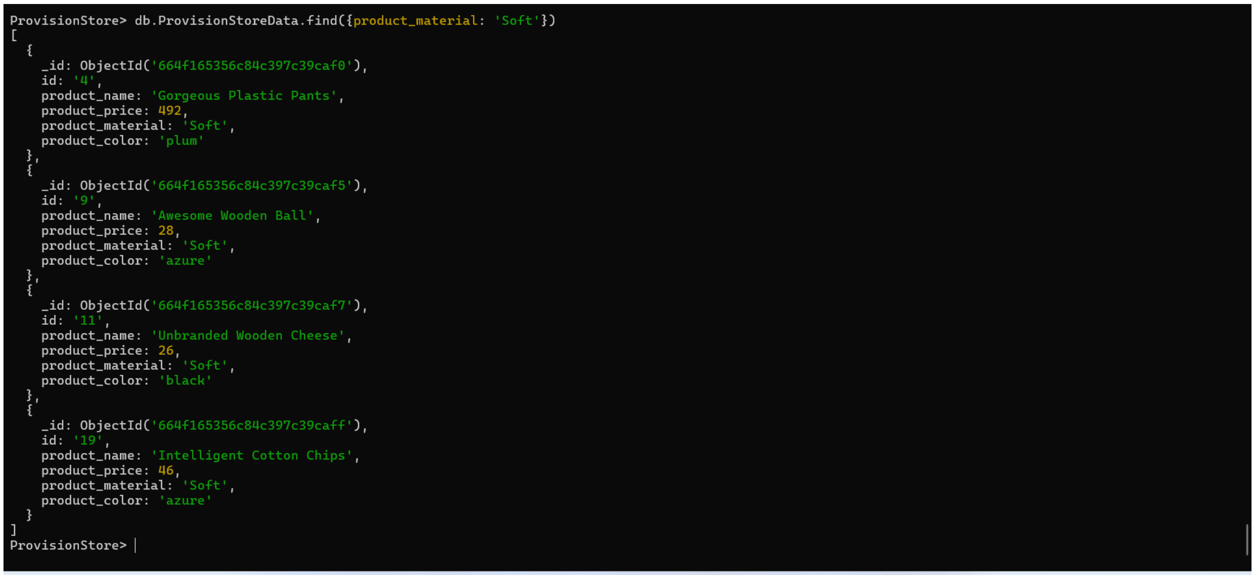
MongoDB Compass Execution:



```
{product_material: 'Soft'}
Project     { field: 0 }
Sort        { field: -1 } or [['field', -1]]          Max Time MS  60000
Collation   { locale: 'simple' }                      Skip  0      Limit  0
Index Hint  {}
```

```
_id: ObjectId('664f01be56c84c397c39cad6')
id : "4"
product_name : "Gorgeous Plastic Pants"
product_price : 492
product_material : "Soft"
product_color : "plum"

_id: ObjectId('664f01be56c84c397c39cadb')
id : "9"
product_name : "Awesome Wooden Ball"
product_price : 28
product_material : "Soft"
product_color : "azure"

_id: ObjectId('664f01be56c84c397c39cadd')
id : "11"
product_name : "Unbranded Wooden Cheese"
```

Shell Execution:

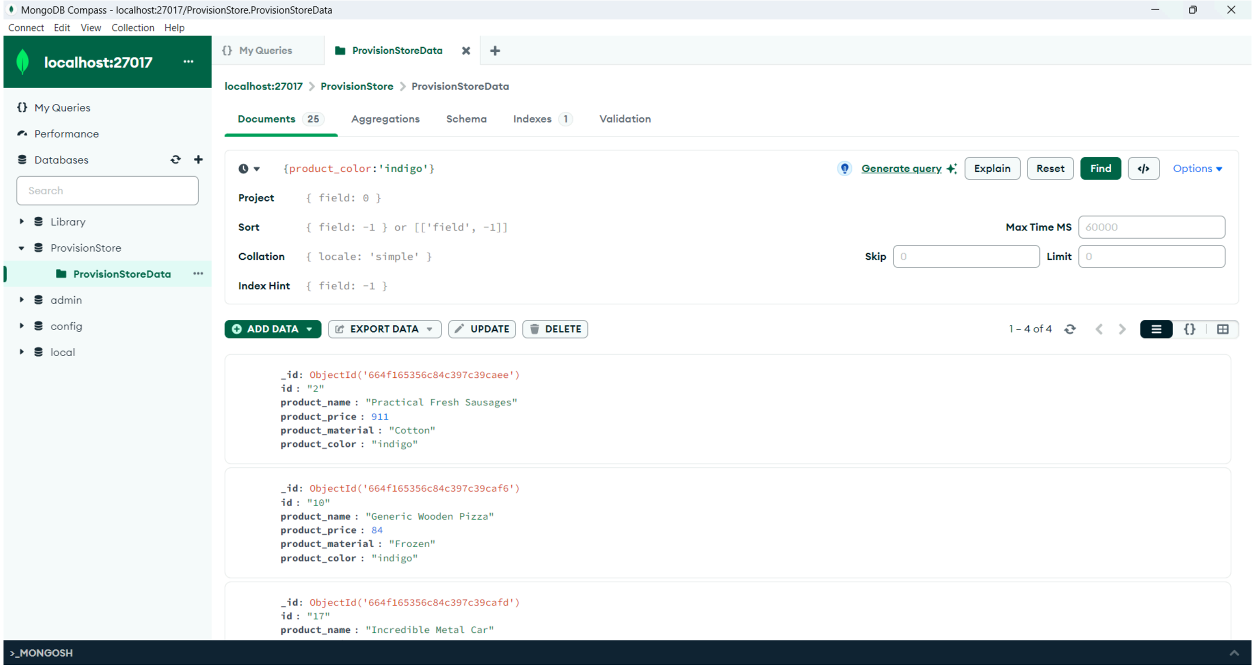


```
ProvisionStore> db.ProvisionStoreData.find({product_material: 'Soft'})
[
  {
    _id: ObjectId('664f165356c84c397c39caf0'),
    id: '4',
    product_name: 'Gorgeous Plastic Pants',
    product_price: 492,
    product_material: 'Soft',
    product_color: 'plum'
  },
  {
    _id: ObjectId('664f165356c84c397c39caf5'),
    id: '9',
    product_name: 'Awesome Wooden Ball',
    product_price: 28,
    product_material: 'Soft',
    product_color: 'azure'
  },
  {
    _id: ObjectId('664f165356c84c397c39caf7'),
    id: '11',
    product_name: 'Unbranded Wooden Cheese',
    product_price: 26,
    product_material: 'Soft',
    product_color: 'black'
  },
  {
    _id: ObjectId('664f165356c84c397c39caff'),
    id: '19',
    product_name: 'Intelligent Cotton Chips',
    product_price: 46,
    product_material: 'Soft',
    product_color: 'azure'
  }
]
ProvisionStore> |
```

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

MongoDB Compass Execution:

<u>product color indigo</u>

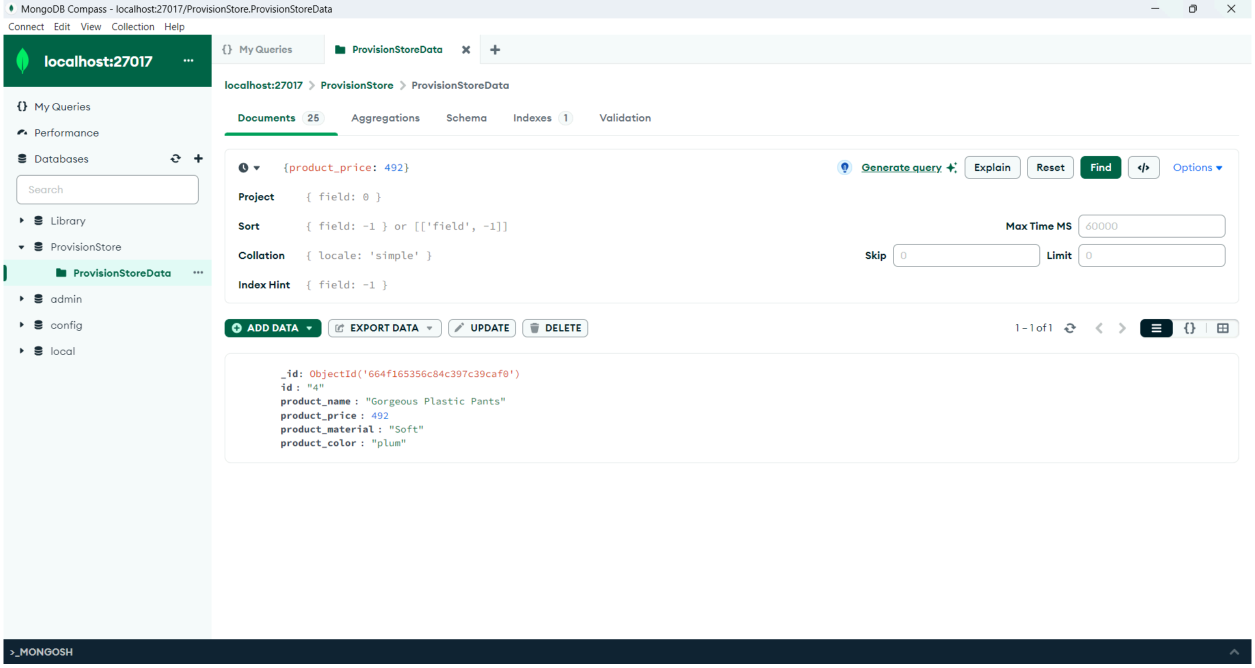


```
{product_color:'indigo'}
```

```
Project     { field: 0 }
Sort        { field: -1 } or [['field', -1]]       Max Time MS  60000
Collation   { locale: 'simple' }       Skip  0       Limit  0
Index Hint  { field: -1 }
```

```
_id: ObjectId('664f165356c84c397c39caee')
id : "2"
product_name : "Practical Fresh Sausages"
product_price : 911
product_material : "Cotton"
product_color : "indigo"

_id: ObjectId('664f165356c84c397c39caf6')
id : "10"
product_name : "Generic Wooden Pizza"
product_price : 84
product_material : "Frozen"
product_color : "indigo"

_id: ObjectId('664f165356c84c397c39cafd')
id : "17"
product_name : "Incredible Metal Car"
```

<u>product price 492.00</u>



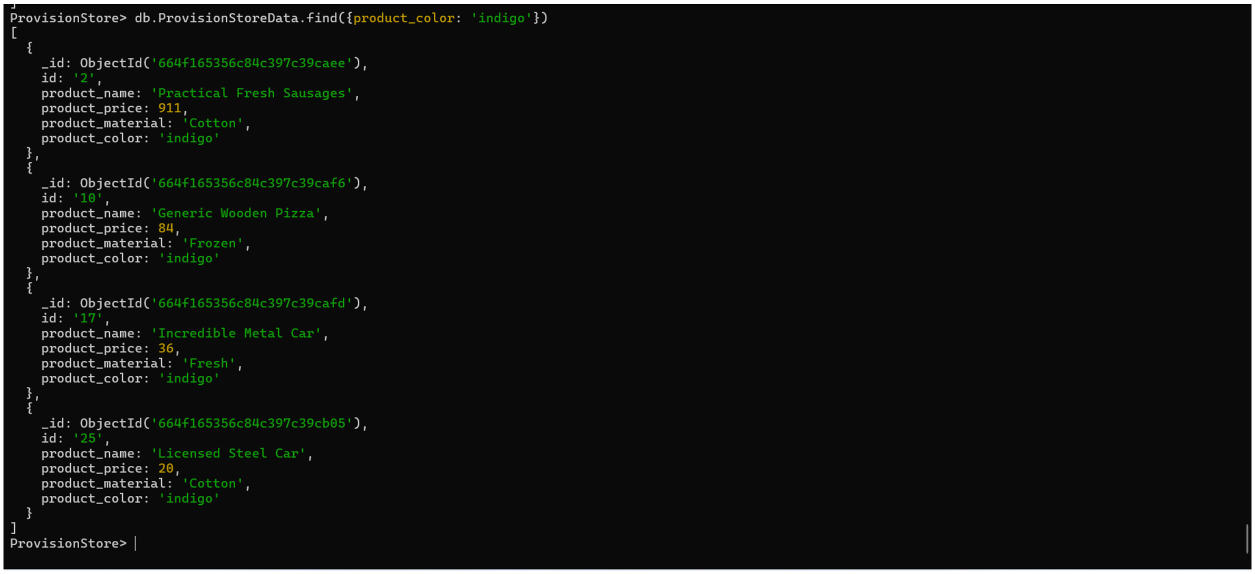
```
{product_price: 492}
```

```
Project     { field: 0 }
Sort        { field: -1 } or [['field', -1]]       Max Time MS  60000
Collation   { locale: 'simple' }       Skip  0       Limit  0
Index Hint  { field: -1 }
```

```
_id: ObjectId('664f165356c84c397c39caf0')
id : "4"
product_name : "Gorgeous Plastic Pants"
product_price : 492
product_material : "Soft"
product_color : "plum"
```

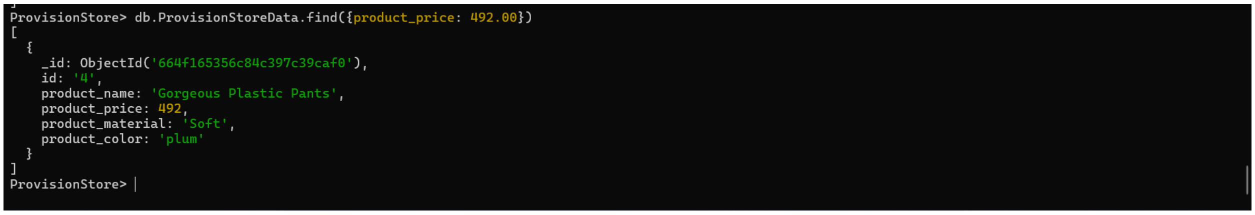
Shell Execution:

product color indigo



```
ProvisionStore> db.ProvisionStoreData.find({product_color: 'indigo'})
[
  {
    _id: ObjectId('664f165356c84c397c39caee'),
    id: '2',
    product_name: 'Practical Fresh Sausages',
    product_price: 911,
    product_material: 'Cotton',
    product_color: 'indigo'
  },
  {
    _id: ObjectId('664f165356c84c397c39caf6'),
    id: '10',
    product_name: 'Generic Wooden Pizza',
    product_price: 84,
    product_material: 'Frozen',
    product_color: 'indigo'
  },
  {
    _id: ObjectId('664f165356c84c397c39cafd'),
    id: '17',
    product_name: 'Incredible Metal Car',
    product_price: 36,
    product_material: 'Fresh',
    product_color: 'indigo'
  },
  {
    _id: ObjectId('664f165356c84c397c39cb05'),
    id: '25',
    product_name: 'Licensed Steel Car',
    product_price: 20,
    product_material: 'Cotton',
    product_color: 'indigo'
  }
]
ProvisionStore> |
```

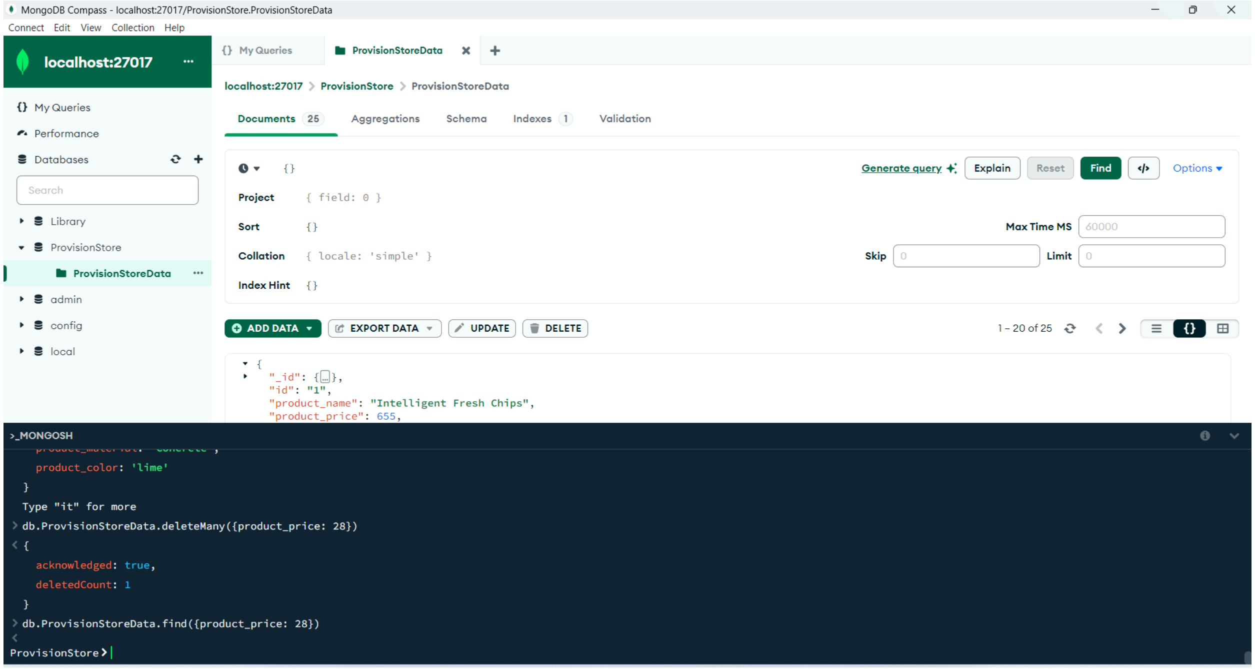
product price 492.00



```
ProvisionStore> db.ProvisionStoreData.find({product_price: 492.00})
[
  {
    _id: ObjectId('664f165356c84c397c39caf0'),
    id: '4',
    product_name: 'Gorgeous Plastic Pants',
    product_price: 492,
    product_material: 'Soft',
    product_color: 'plum'
  }
]
ProvisionStore> |
```

10.Delete the products which product price value are 28

Shell Execution:



Project { field: 0 }

Sort {}

Collation { locale: 'simple' }

Index Hint {}

Max Time MS 60000

Skip 0

Limit 0

```
{
  "_id": {…},
  "id": "1",
  "product_name": "Intelligent Fresh Chips",
  "product_price": 655,
```

```
    product_material: 'Concrete',
    product_color: 'lime'
  }
  Type "it" for more
> db.ProvisionStoreData.deleteMany({product_price: 28})
< {
    acknowledged: true,
    deletedCount: 1
  }
> db.ProvisionStoreData.find({product_price: 28})
<
ProvisionStore>
```