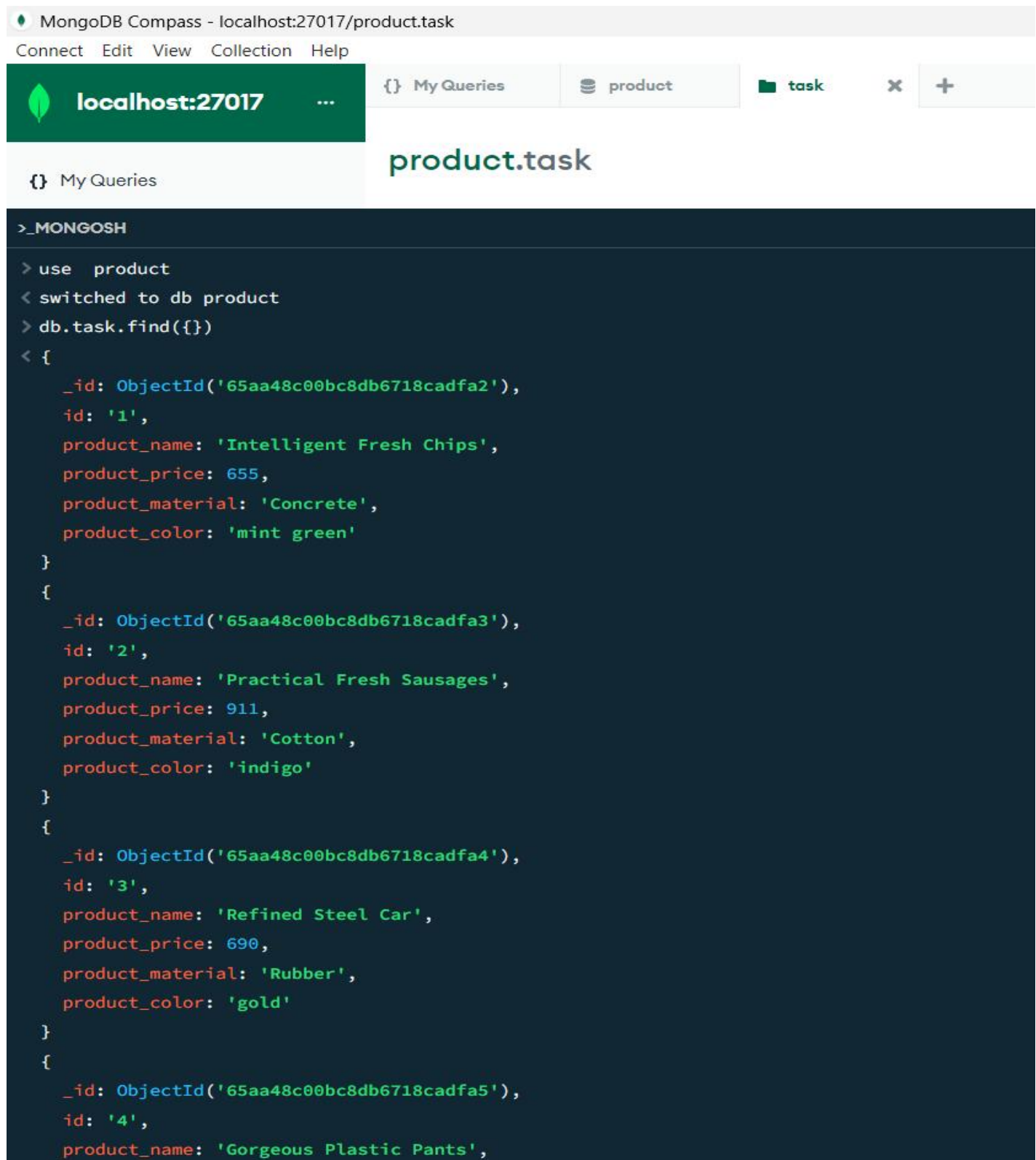


## MongoDB Answer

1. Find all the information about each products:



The screenshot shows the MongoDB Compass interface. The top bar indicates the connection to 'localhost:27017/product.task'. The main area displays the 'product.task' collection. A query is executed, and the results are shown in a JSON format. The results are as follows:

```
>_MONGOSH
> use product
< switched to db product
> db.task.find({})
< {
  _id: ObjectId('65aa48c00bc8db6718cadfa2'),
  id: '1',
  product_name: 'Intelligent Fresh Chips',
  product_price: 655,
  product_material: 'Concrete',
  product_color: 'mint green'
}
{
  _id: ObjectId('65aa48c00bc8db6718cadfa3'),
  id: '2',
  product_name: 'Practical Fresh Sausages',
  product_price: 911,
  product_material: 'Cotton',
  product_color: 'indigo'
}
{
  _id: ObjectId('65aa48c00bc8db6718cadfa4'),
  id: '3',
  product_name: 'Refined Steel Car',
  product_price: 690,
  product_material: 'Rubber',
  product_color: 'gold'
}
{
  _id: ObjectId('65aa48c00bc8db6718cadfa5'),
  id: '4',
  product_name: 'Gorgeous Plastic Pants',
```



localhost:27017



{ } My Queries



product



task



{ } My Queries

product.task

&gt;\_MONGOSH

```
{
  _id: ObjectId('65aa48c00bc8db6718cadfa5'),
  id: '4',
  product_name: 'Gorgeous Plastic Pants',
  product_price: 492,
  product_material: 'Soft',
  product_color: 'plum'
}
{
  _id: ObjectId('65aa48c00bc8db6718cadfa6'),
  id: '5',
  product_name: 'Sleek Cotton Chair',
  product_price: 33,
  product_material: 'Fresh',
  product_color: 'black'
}
{
  _id: ObjectId('65aa48c00bc8db6718cadfa7'),
  id: '6',
  product_name: 'Awesome Wooden Towels',
  product_price: 474,
  product_material: 'Plastic',
  product_color: 'orange'
}
{
  _id: ObjectId('65aa48c00bc8db6718cadfa8'),
  id: '7',
  product_name: 'Practical Soft Shoes',
  product_price: 500,
  product_material: 'Rubber',
  product_color: 'pink'
}
```



localhost:27017

...

{ } My Queries

product

task

x

+

{ } My Queries

product.task

&gt;\_MONGOSH

```
product_material: 'Rubber',
product_color: 'pink'
}
{
  _id: ObjectId('65aa48c00bc8db6718cadfa9'),
  id: '8',
  product_name: 'Incredible Steel Hat',
  product_price: 78,
  product_material: 'Rubber',
  product_color: 'violet'
}
{
  _id: ObjectId('65aa48c00bc8db6718cadfaa'),
  id: '9',
  product_name: 'Awesome Wooden Ball',
  product_price: 28,
  product_material: 'Soft',
  product_color: 'azure'
}
{
  _id: ObjectId('65aa48c00bc8db6718cadfab'),
  id: '10',
  product_name: 'Generic Wooden Pizza',
  product_price: 84,
  product_material: 'Frozen',
  product_color: 'indigo'
}
{
  _id: ObjectId('65aa48c00bc8db6718cadfac'),
  id: '11',
  product_name: 'Unbranded Wooden Cheese',
```



localhost:27017

...

{ } My Queries

product

task



{ } My Queries

product.task

&gt;\_MONGOSH

```
  id: '11',
  product_name: 'Unbranded Wooden Cheese',
  product_price: 26,
  product_material: 'Soft',
  product_color: 'black'
}
{
  _id: ObjectId('65aa48c00bc8db6718cadfad'),
  id: '12',
  product_name: 'Unbranded Plastic Salad',
  product_price: 89,
  product_material: 'Wooden',
  product_color: 'pink'
}
{
  _id: ObjectId('65aa48c00bc8db6718cadfae'),
  id: '13',
  product_name: 'Gorgeous Cotton Keyboard',
  product_price: 37,
  product_material: 'Concrete',
  product_color: 'sky blue'
}
{
  _id: ObjectId('65aa48c00bc8db6718cadfaf'),
  id: '14',
  product_name: 'Incredible Steel Shirt',
  product_price: 54,
  product_material: 'Metal',
  product_color: 'white'
}
{
```



localhost:27017

...

{ } My Queries

product

task



{ } My Queries

product.task

&gt;\_MONGOSH

```
  product_material: 'Metal',
  product_color: 'white'
}
{
  _id: ObjectId('65aa48c00bc8db6718cadfb0'),
  id: '15',
  product_name: 'Ergonomic Cotton Hat',
  product_price: 43,
  product_material: 'Rubber',
  product_color: 'mint green'
}
{
  _id: ObjectId('65aa48c00bc8db6718cadfb1'),
  id: '16',
  product_name: 'Small Soft Chair',
  product_price: 47,
  product_material: 'Cotton',
  product_color: 'teal'
}
{
  _id: ObjectId('65aa48c00bc8db6718cadfb2'),
  id: '17',
  product_name: 'Incredible Metal Car',
  product_price: 36,
  product_material: 'Fresh',
  product_color: 'indigo'
}
{
  _id: ObjectId('65aa48c00bc8db6718cadfb3'),
  id: '18',
  product_name: 'Licensed Plastic Bacon',
  product_price: 88,
```



```

>_MONGOSH
  _id: ObjectId('65aa48c00bc8db6718cadfb2'),
  id: '17',
  product_name: 'Incredible Metal Car',
  product_price: 36,
  product_material: 'Fresh',
  product_color: 'indigo'
}
{
  _id: ObjectId('65aa48c00bc8db6718cadfb3'),
  id: '18',
  product_name: 'Licensed Plastic Bacon',
  product_price: 88,
  product_material: 'Steel',
  product_color: 'yellow'
}
{
  _id: ObjectId('65aa48c00bc8db6718cadfb4'),
  id: '19',
  product_name: 'Intelligent Cotton Chips',
  product_price: 46,
  product_material: 'Soft',
  product_color: 'azure'
}
{
  _id: ObjectId('65aa48c00bc8db6718cadfb5'),
  id: '20',
  product_name: 'Handcrafted Wooden Bacon',
  product_price: 36,
  product_material: 'Concrete',
  product_color: 'lime'
}

```

localhost:27017
...
My Queries
product
+ Create collection
Refresh

My Queries
>\_MONGOSH
product\_color: 'lime'
}
{
 \_id: ObjectId('65aa60f2fc42b4cd17d33338'),
 id: '21',
 product\_name: 'Unbranded Granite Chicken',
 product\_price: 90,
 product\_material: 'Metal',
 product\_color: 'gold'
}
{
 \_id: ObjectId('65aa60f2fc42b4cd17d33339'),
 id: '22',
 product\_name: 'Ergonomic Soft Hat',
 product\_price: 99,
 product\_material: 'Rubber',
 product\_color: 'black'
}
{
 \_id: ObjectId('65aa60f2fc42b4cd17d3333a'),
 id: '23',
 product\_name: 'Intelligent Steel Pizza',
 product\_price: 95,
 product\_material: 'Cotton',
 product\_color: 'azure'
}
Type "!!" for more

lin: 6
Page: 6/10
Section: 1/1
Set Value: 19.4cm
Row: 3
Column: 1
Words: 45
Alt Spell Check



localhost:27017



{ } My Queries

product



+ Create collection

Refresh

{ } My Queries

> \_MONGOSH

```
{
  _id: ObjectId('65aa60f2fc42b4cd17d3333a'),
  id: '23',
  product_name: 'Intelligent Steel Pizza',
  product_price: 95,
  product_material: 'Cotton',
  product_color: 'azure'
}
```

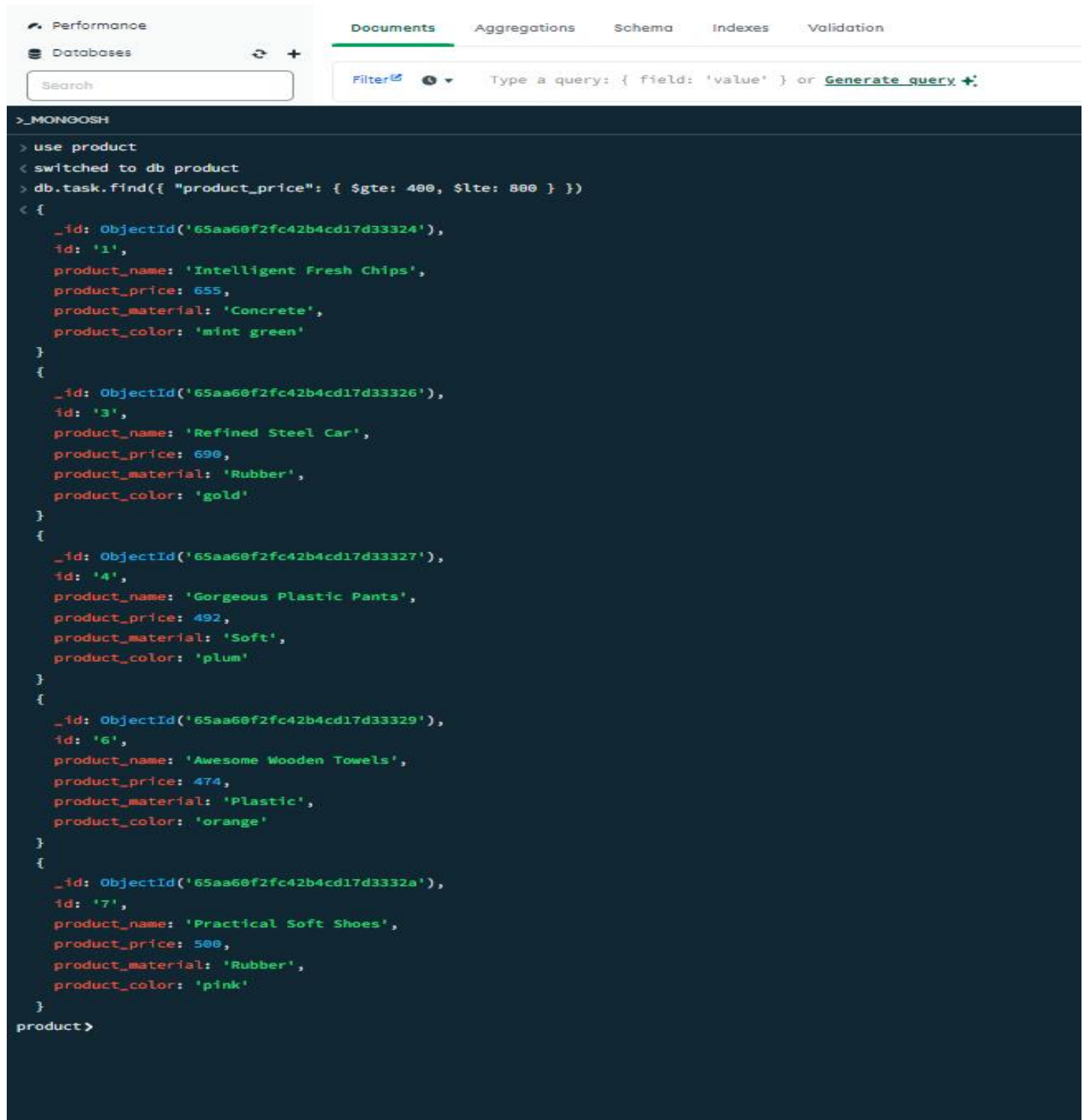
Type "it" for more

> it

```
< {
  _id: ObjectId('65aa60f2fc42b4cd17d3333b'),
  id: '24',
  product_name: 'Tasty Rubber Cheese',
  product_price: 47,
  product_material: 'Frozen',
  product_color: 'orchid'
}
{
  _id: ObjectId('65aa60f2fc42b4cd17d3333c'),
  id: '25',
  product_name: 'Licensed Steel Car',
  product_price: 20,
  product_material: 'Cotton',
  product_color: 'indigo'
}
```

product >

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

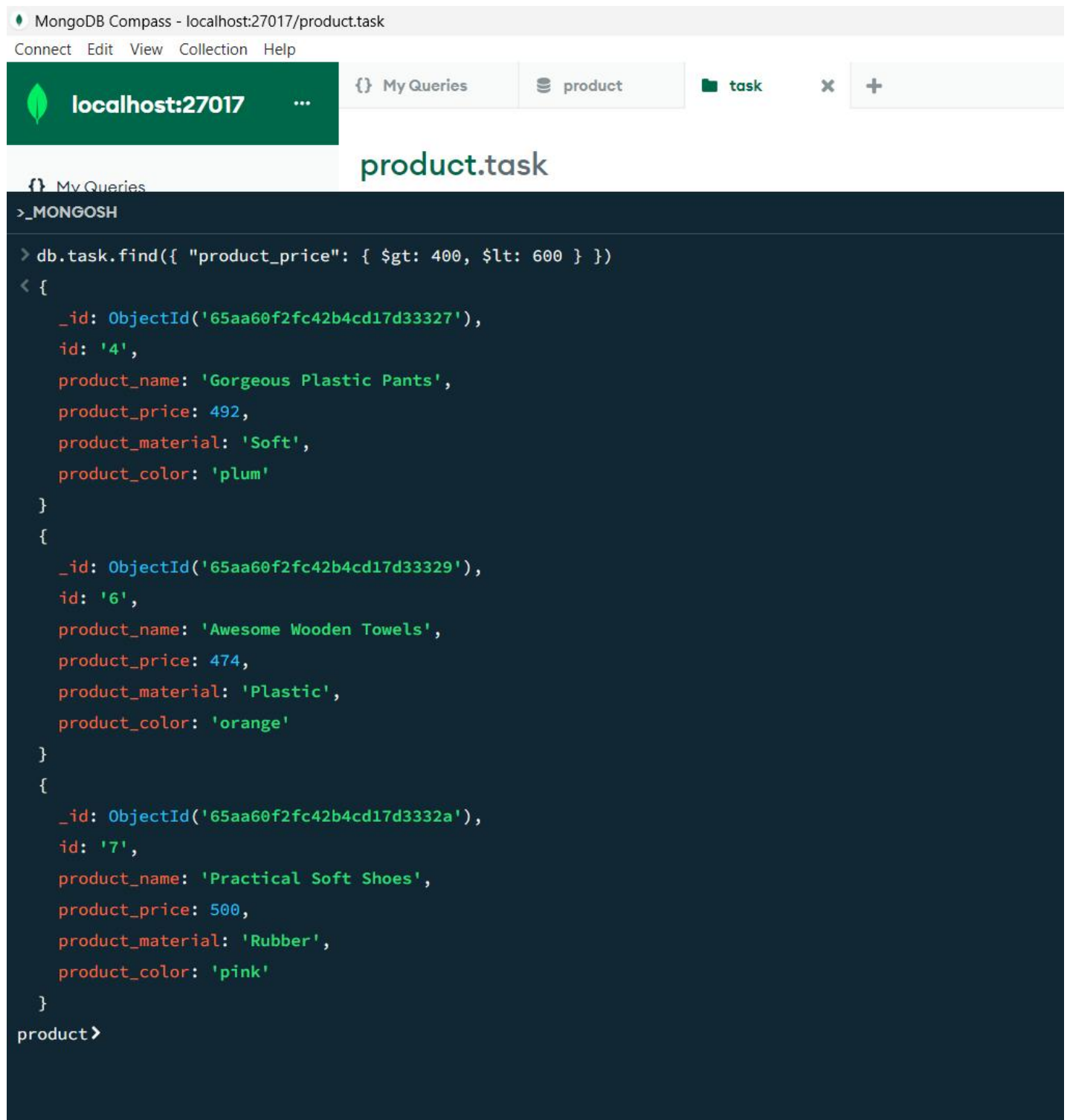


The screenshot shows the MongoDB Compass web interface. The top navigation bar includes tabs for Performance, Documents (selected), Aggregations, Schema, Indexes, and Validation. On the left, there's a sidebar with 'Performance' and 'Databases' sections. The main area displays a query in the 'Documents' tab: `Filter` (with a dropdown arrow) and `Type a query: { field: 'value' } or Generate query` (with a plus icon). Below this, the MongoDB shell prompt `>_MONGOSH` is shown. The user has entered the following commands: `> use product`, `< switched to db product`, and `> db.task.find({ "product_price": { $gte: 400, $lte: 800 } })`. The results are displayed as a JSON array of five objects, each representing a product with fields: `_id`, `id`, `product_name`, `product_price`, `product_material`, and `product_color`. The products are: 1. 'Intelligent Fresh Chips' (price 655, material 'Concrete', color 'mint green'), 2. 'Refined Steel Car' (price 690, material 'Rubber', color 'gold'), 3. 'Gorgeous Plastic Pants' (price 492, material 'Soft', color 'plum'), 4. 'Awesome Wooden Towels' (price 474, material 'Plastic', color 'orange'), and 5. 'Practical Soft Shoes' (price 500, material 'Rubber', color 'pink'). The prompt `product>` is visible at the bottom.

```
>_MONGOSH
> use product
< switched to db product
> db.task.find({ "product_price": { $gte: 400, $lte: 800 } })
< [
  {
    _id: ObjectId('65aa60f2fc42b4cd17d33324'),
    id: '1',
    product_name: 'Intelligent Fresh Chips',
    product_price: 655,
    product_material: 'Concrete',
    product_color: 'mint green'
  },
  {
    _id: ObjectId('65aa60f2fc42b4cd17d33326'),
    id: '3',
    product_name: 'Refined Steel Car',
    product_price: 690,
    product_material: 'Rubber',
    product_color: 'gold'
  },
  {
    _id: ObjectId('65aa60f2fc42b4cd17d33327'),
    id: '4',
    product_name: 'Gorgeous Plastic Pants',
    product_price: 492,
    product_material: 'Soft',
    product_color: 'plum'
  },
  {
    _id: ObjectId('65aa60f2fc42b4cd17d33329'),
    id: '6',
    product_name: 'Awesome Wooden Towels',
    product_price: 474,
    product_material: 'Plastic',
    product_color: 'orange'
  },
  {
    _id: ObjectId('65aa60f2fc42b4cd17d3332a'),
    id: '7',
    product_name: 'Practical Soft Shoes',
    product_price: 500,
    product_material: 'Rubber',
    product_color: 'pink'
  }
]
product>
```



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



The screenshot shows the MongoDB Compass application. The top bar indicates the connection to 'localhost:27017/product.task'. Below the top bar, there are tabs for 'My Queries', 'product', and 'task'. The 'product' tab is selected. The main area displays the query and its results.

```
>_MONGOSH
> db.task.find({ "product_price": { $gt: 400, $lt: 600 } })
< {
  _id: ObjectId('65aa60f2fc42b4cd17d33327'),
  id: '4',
  product_name: 'Gorgeous Plastic Pants',
  product_price: 492,
  product_material: 'Soft',
  product_color: 'plum'
}
{
  _id: ObjectId('65aa60f2fc42b4cd17d33329'),
  id: '6',
  product_name: 'Awesome Wooden Towels',
  product_price: 474,
  product_material: 'Plastic',
  product_color: 'orange'
}
{
  _id: ObjectId('65aa60f2fc42b4cd17d3332a'),
  id: '7',
  product_name: 'Practical Soft Shoes',
  product_price: 500,
  product_material: 'Rubber',
  product_color: 'pink'
}
product>
```

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

```
>_MONGOSH
```

```
> db.task.find({ "product_price": { $gt: 500 } }).limit(4)
```

```
< {
```

```
  _id: ObjectId('65aa48c00bc8db6718cadfa2'),
```

```
  id: '1',
```

```
  product_name: 'Intelligent Fresh Chips',
```

```
  product_price: 655,
```

```
  product_material: 'Concrete',
```

```
  product_color: 'mint green'
```

```
}
```

```
{
```

```
  _id: ObjectId('65aa48c00bc8db6718cadfa3'),
```

```
  id: '2',
```

```
  product_name: 'Practical Fresh Sausages',
```

```
  product_price: 911,
```

```
  product_material: 'Cotton',
```

```
  product_color: 'indigo'
```

```
}
```

```
{
```

```
  _id: ObjectId('65aa48c00bc8db6718cadfa4'),
```

```
  id: '3',
```

```
  product_name: 'Refined Steel Car',
```

```
  product_price: 690,
```

```
  product_material: 'Rubber',
```

```
  product_color: 'gold'
```

```
}
```

```
> db.task.find({ "product_name": 1, "product_material": 1, "id": 0
```

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

MongoDB Compass - localhost:27017/product.task

Connect Edit View Collection Help

localhost:27017 ... {} My Queries product task x +

product.task

{} My Queries

```
>_MONGOSH
> db.task.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'
}
```



localhost:27017



{ } My Queries

product

task



{ } My Queries

product.task

&gt;\_MONGOSH

```
}
{
  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'
}
```



localhost:27017



{ } My Queries

product

task



{ } My Queries

product.task

&gt;\_MONGOSH

```
}
{
  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
> it
< {
  product_name: 'Unbranded Granite Chicken'
```





localhost:27017



{ } My Queries

product

task



{ } My Queries

product.task

&gt;\_MONGOSH

```
}
{
  product_name: 'Handcrafted Wooden Bacon',
  product_material: 'Concrete'
}
```

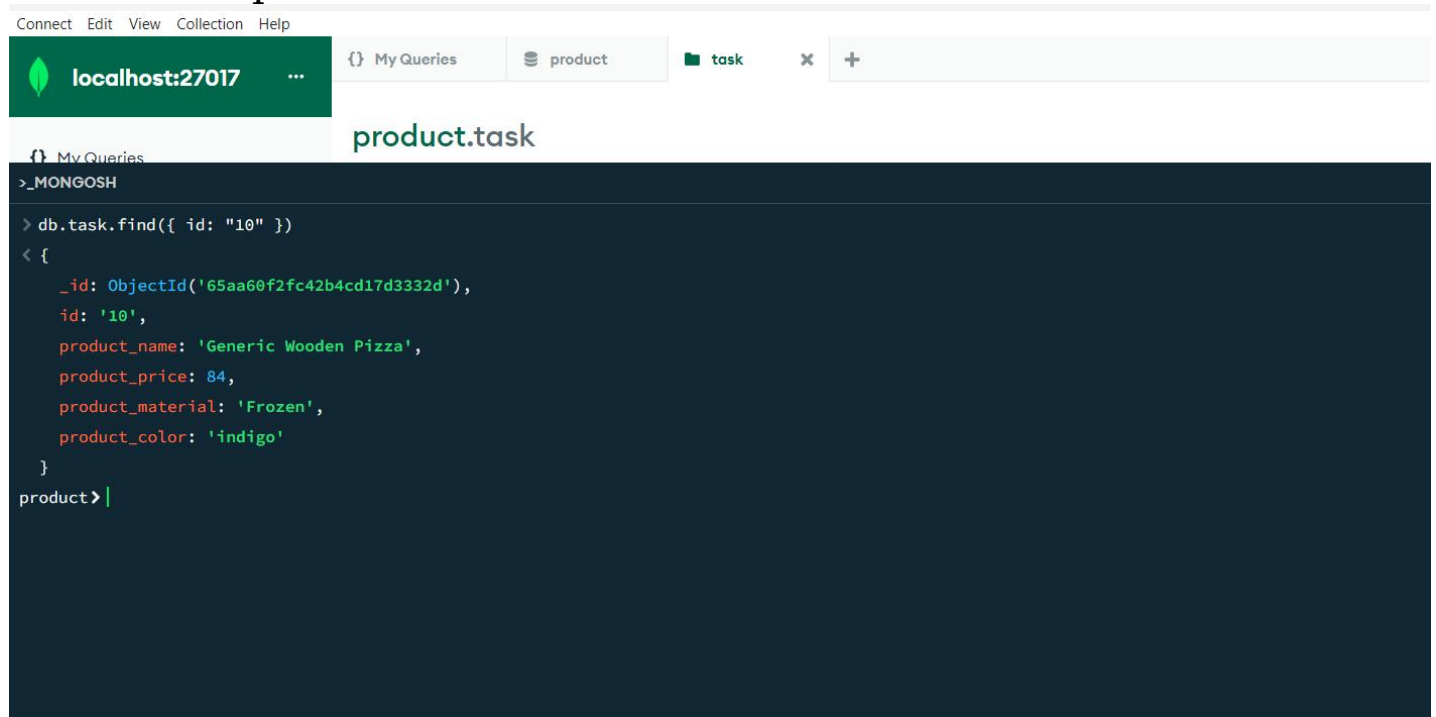
Type "it" for more

&gt; 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'
}
```

product&gt;

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

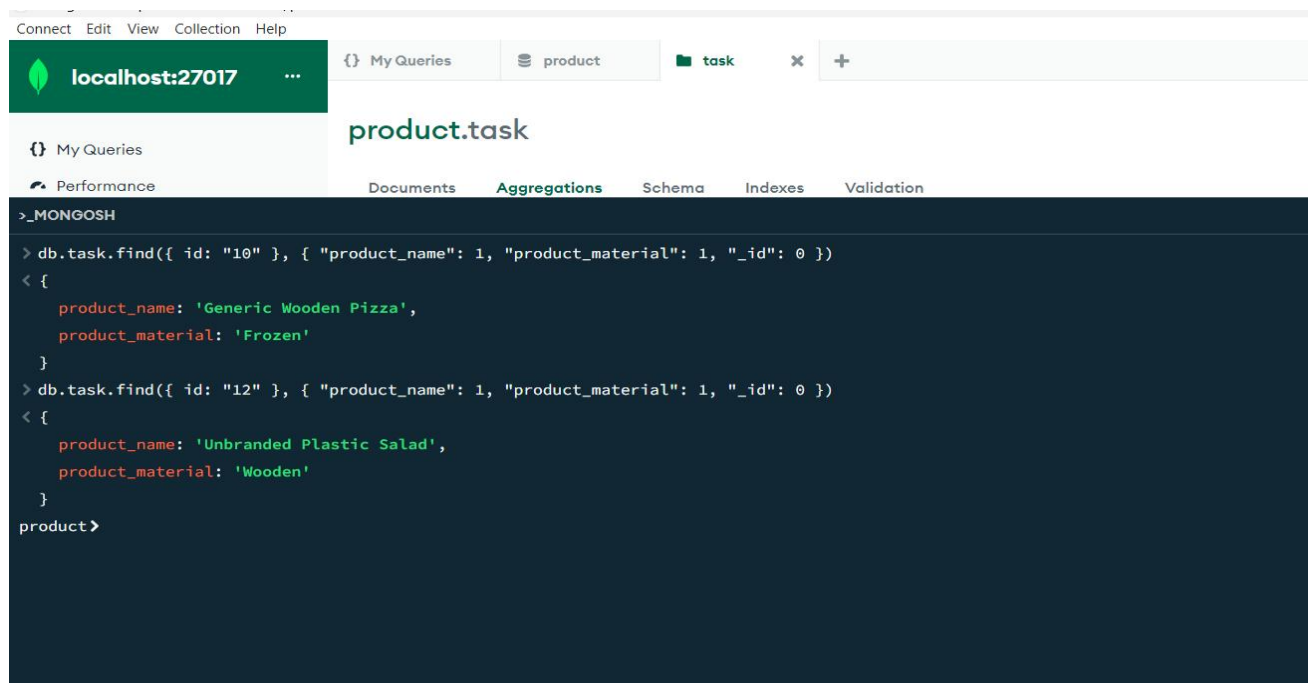


The screenshot shows the MongoDB Compass interface. The top bar includes 'Connect', 'Edit', 'View', 'Collection', and 'Help'. Below this, there's a green bar with 'localhost:27017' and a menu icon. To the right, there are tabs for 'My Queries', 'product', and 'task'. The 'task' tab is active, showing a document with the following fields: `_id` (ObjectId), `id` ('10'), `product_name` ('Generic Wooden Pizza'), `product_price` (84), `product_material` ('Frozen'), and `product_color` ('indigo'). The command bar shows the query `db.task.find({ id: "10" })` and the result is displayed as a JSON object.

```
> db.task.find({ id: "10" })
< {
  _id: ObjectId('65aa60f2fc42b4cd17d3332d'),
  id: '10',
  product_name: 'Generic Wooden Pizza',
  product_price: 84,
  product_material: 'Frozen',
  product_color: 'indigo'
}
```

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

Ans : I am getting only the product name and product material  
Of id 10 and 12



The screenshot shows the MongoDB Compass interface with the 'task' tab active. The command bar shows two queries: `db.task.find({ id: "10" }, { "product_name": 1, "product_material": 1, "_id": 0 })` and `db.task.find({ id: "12" }, { "product_name": 1, "product_material": 1, "_id": 0 })`. The results are displayed as JSON objects, showing only the `product_name` and `product_material` fields for each ID.

```
> db.task.find({ id: "10" }, { "product_name": 1, "product_material": 1, "_id": 0 })
< {
  product_name: 'Generic Wooden Pizza',
  product_material: 'Frozen'
}
```

```
> db.task.find({ id: "12" }, { "product_name": 1, "product_material": 1, "_id": 0 })
< {
  product_name: 'Unbranded Plastic Salad',
  product_material: 'Wooden'
}
```

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

## product.task

My Queries

>\_MONGOSH

```
> db.task.find({ "product_material": /soft/i })
```

```
< {
```

```
  _id: ObjectId('65aa60f2fc42b4cd17d33327'),
  id: '4',
  product_name: 'Gorgeous Plastic Pants',
  product_price: 492,
  product_material: 'Soft',
  product_color: 'plum'
```

```
}
```

```
{
```

```
  _id: ObjectId('65aa60f2fc42b4cd17d3332c'),
  id: '9',
  product_name: 'Awesome Wooden Ball',
  product_price: 28,
  product_material: 'Soft',
  product_color: 'azure'
```

```
}
```

```
{
```

```
  _id: ObjectId('65aa60f2fc42b4cd17d3332e'),
  id: '11',
  product_name: 'Unbranded Wooden Cheese',
  product_price: 26,
  product_material: 'Soft',
  product_color: 'black'
```

```
}
```

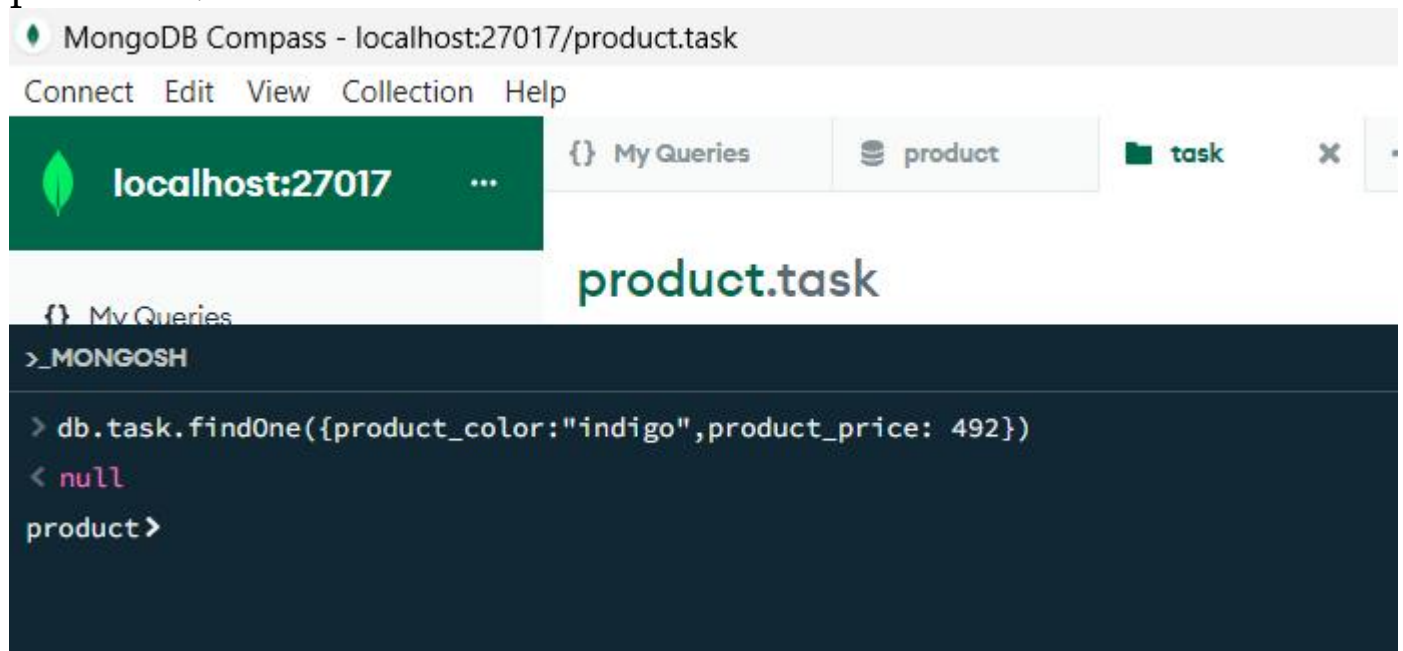
```
{
```

```
  _id: ObjectId('65aa60f2fc42b4cd17d33336'),
  id: '19',
  product_name: 'Intelligent Cotton Chips',
  product_price: 46,
  product_material: 'Soft',
  product_color: 'azure'
```

```
}
```

```
product>
```

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



The screenshot shows the MongoDB Compass application running on localhost:27017. The interface includes a top navigation bar with 'Connect', 'Edit', 'View', 'Collection', and 'Help' buttons. Below this, there's a sidebar with a green leaf icon and 'localhost:27017'. The main area displays 'product.task' as the selected collection. In the bottom terminal window, the following command is entered: `> db.task.findOne({product_color:"indigo",product_price: 492})`. The output shows `< null`, indicating no document was found. The prompt `product>` is also visible.

10) Delete the products whose product price value are the same

Ans :there are no products which have the same product price, so the operation cannot be done .

To delete a many query use this syntax:

“db.collectionName.deleteMany({ "product\_price": { \$eq: valueToBeDeleted } })”