**MongoDB Task**

**MongoDB**

MongoDB is a popular, open-source NoSQL database management system known for its flexibility, scalability, and ease of use.

It is designed to handle large volumes of unstructured or semi-structured data, making it well-suited for a wide range of applications

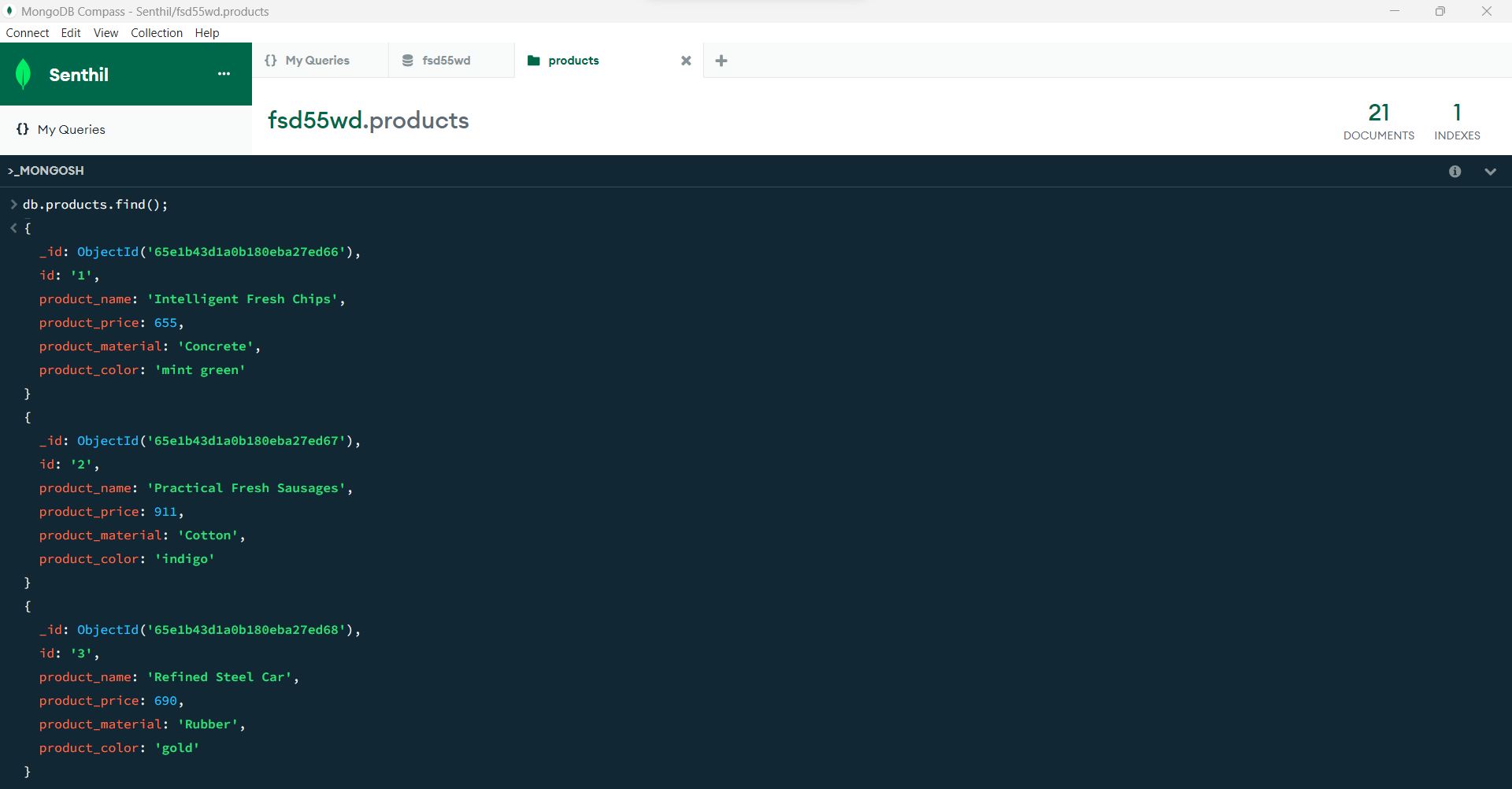
**Key Concepts:**

* Document- Oriented - it stores data in JSON-like documents
* Collections- data into collections (tables)
* NoSQL- (Not Only SQL) database ,No fixed schemas/structure
* Scalability- handling large datasets.(load balance)

**1. Find all the information about each products**

**Answer:**

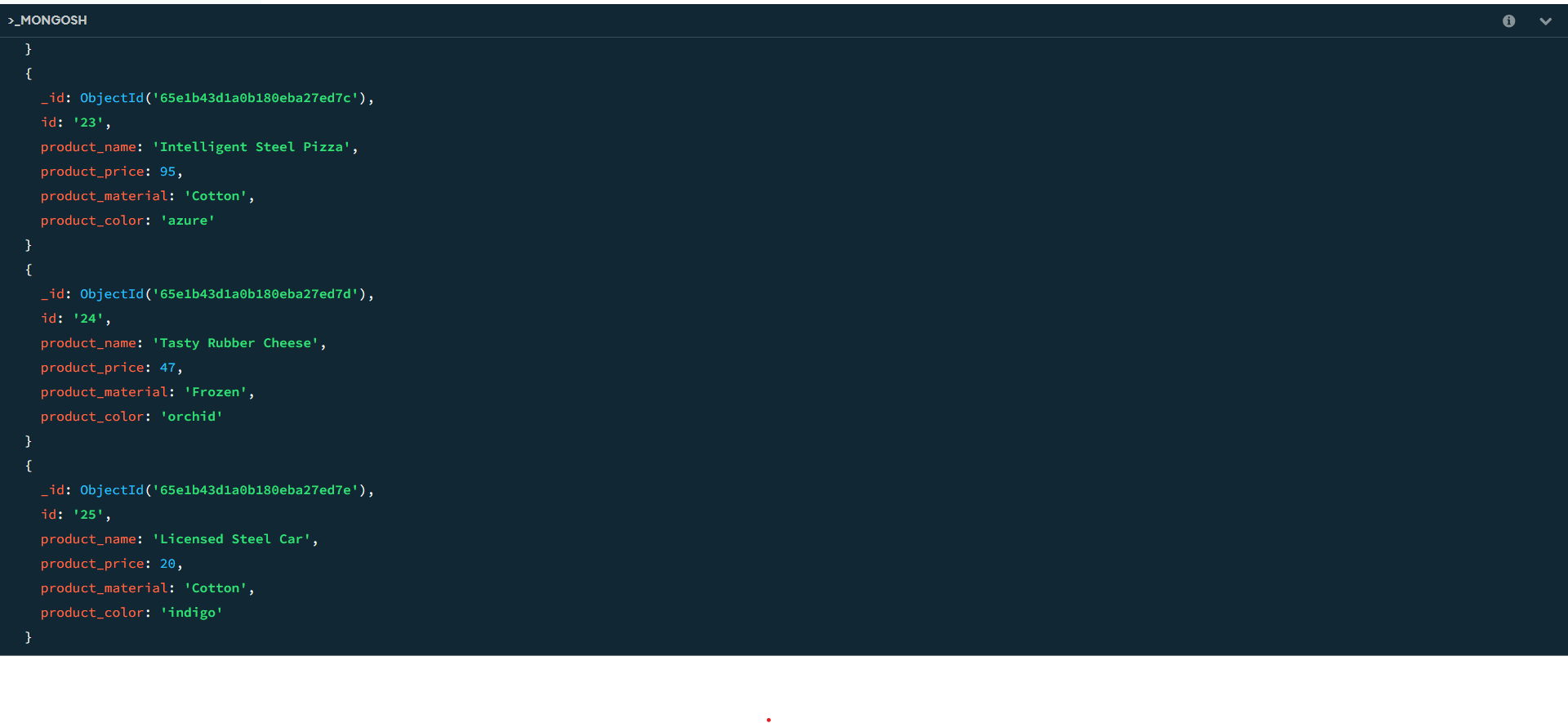
**db.products.find();**



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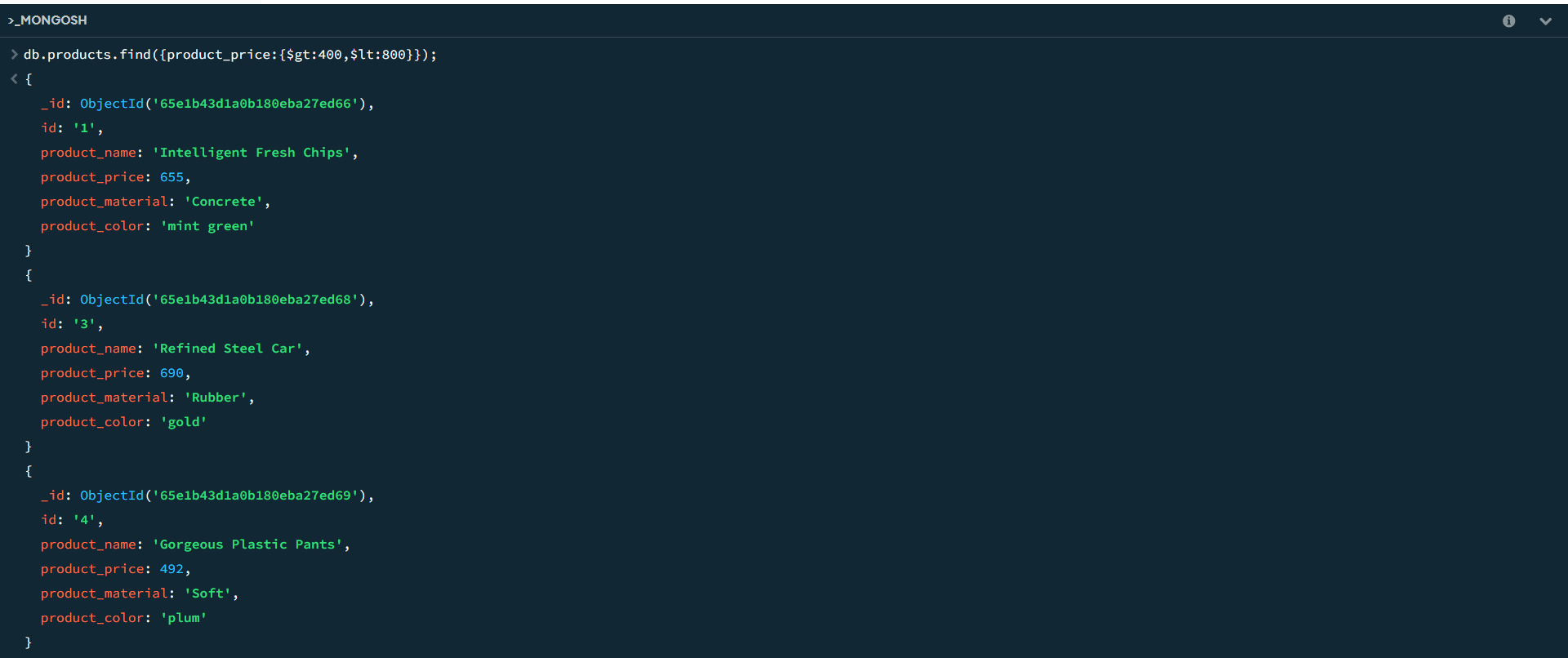
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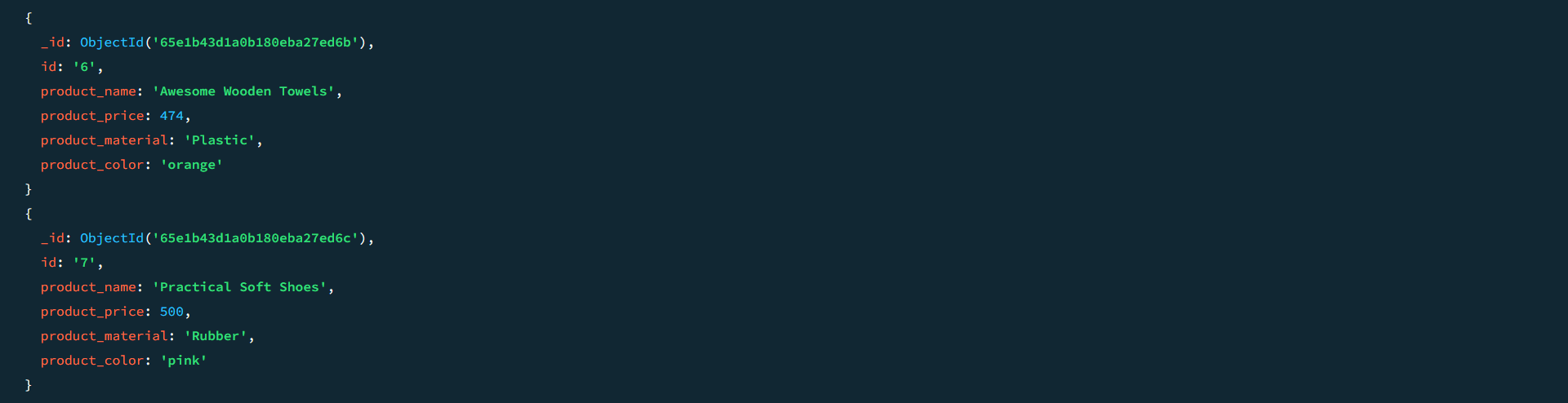


**2. Find the product price which are between 400 to 800**

**Answer:**

**db.products.find({product\_price:{$gt:400,$lt:800}});**

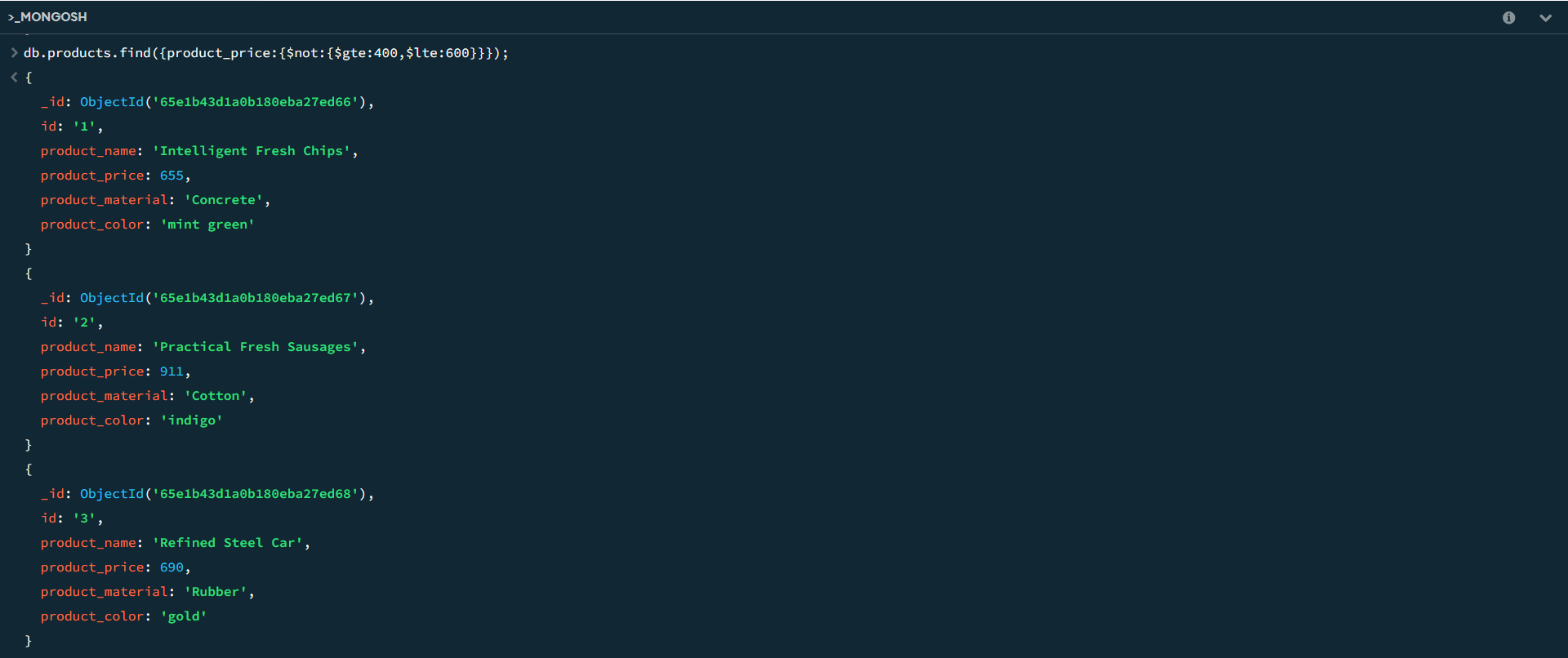
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**3.Find the product price which are not between 400 to 600**

**Answer:**

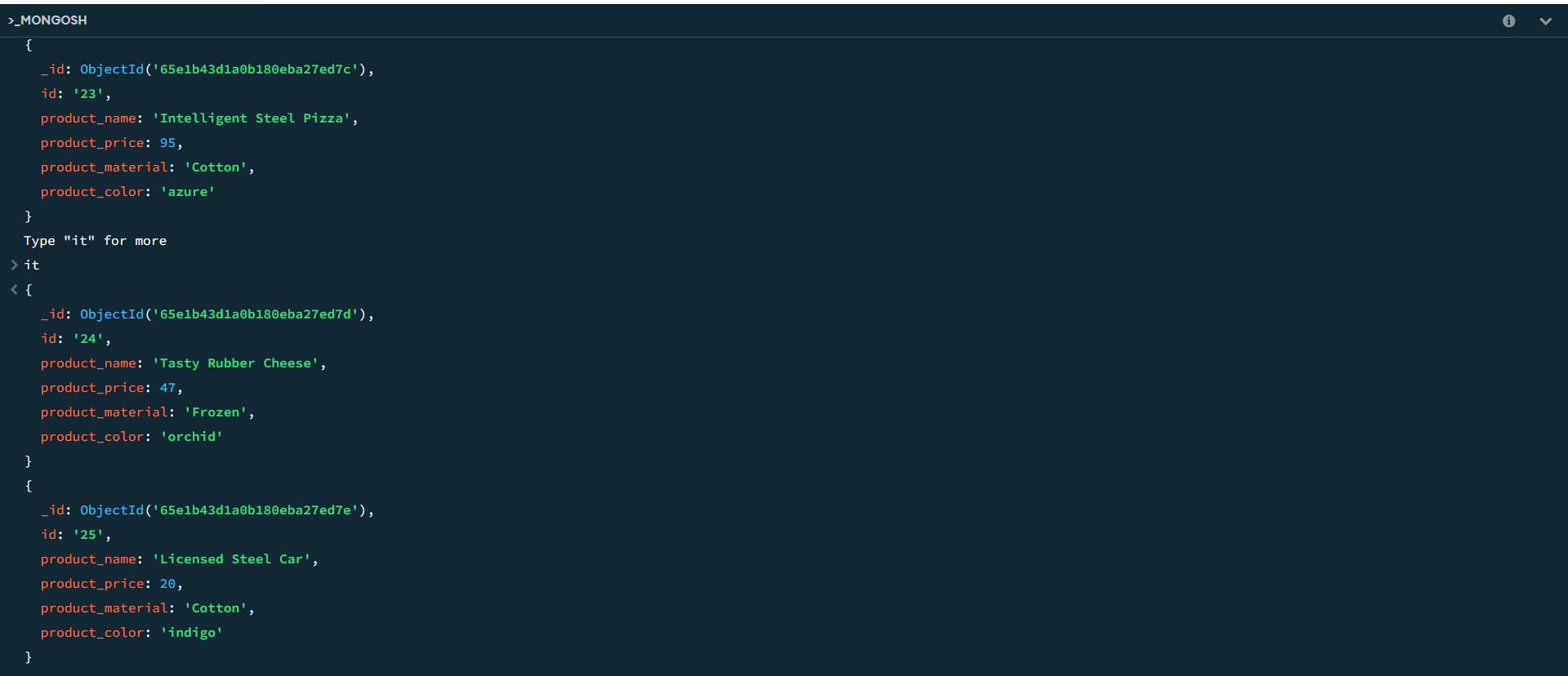
**db.products.find({product\_price:{$not:{$gte:400,$lte:600}}});**

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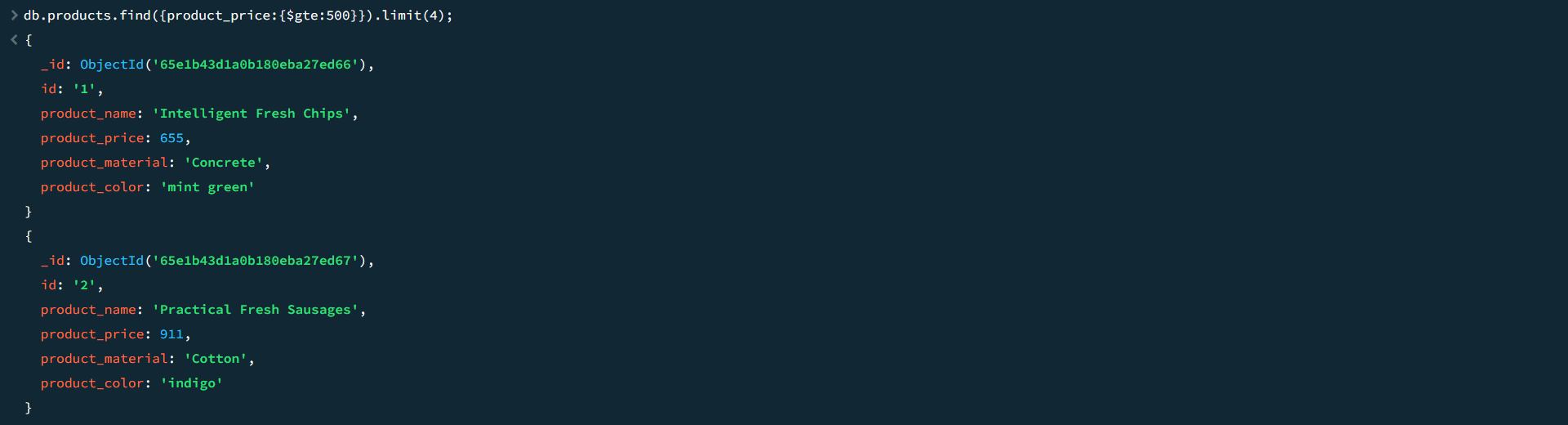
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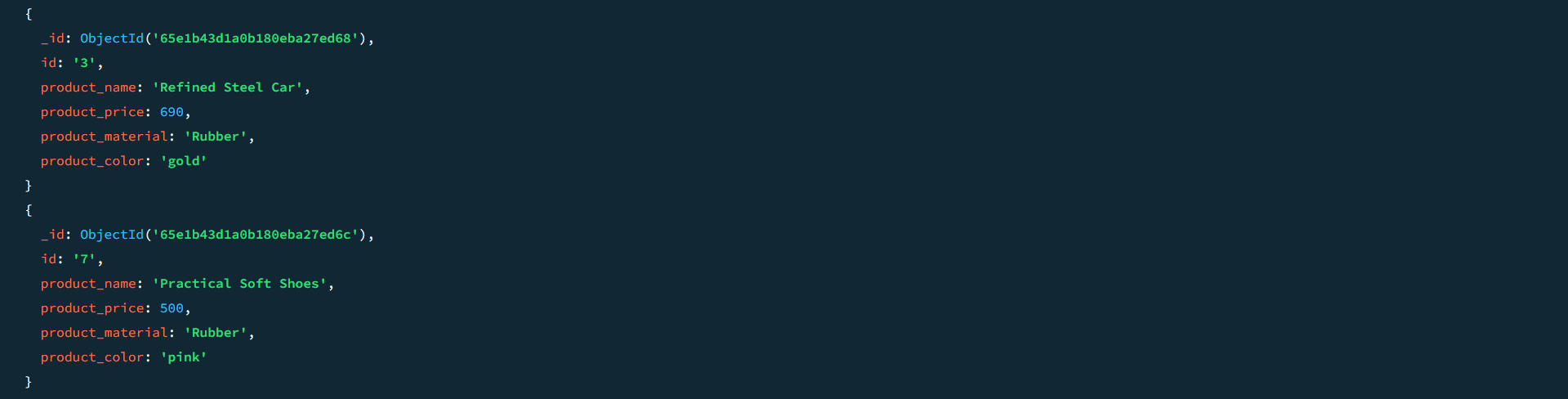
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**4. List the four product which are greater than 500 in price**

**Answer:**

**db.products.find({product\_price:{$gte:500}}).limit(4);**

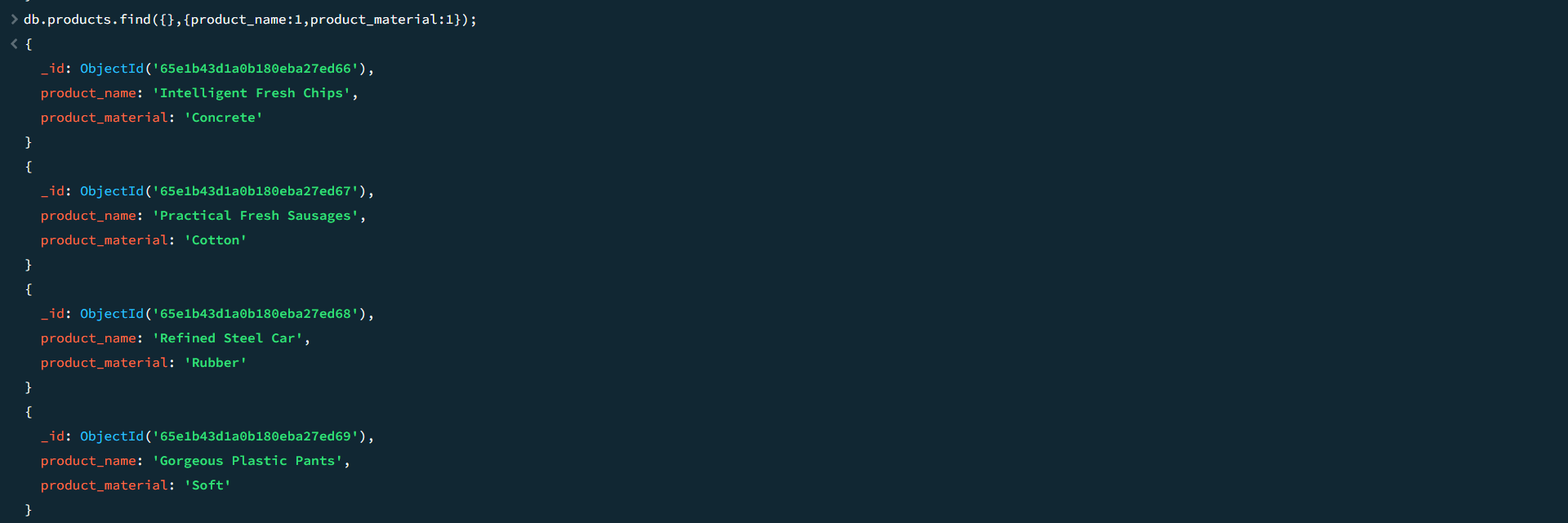
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**5.Find the product name and product material of each products**

**Answer:**

**db.products.find({},{product\_name:1,product\_material:1});**

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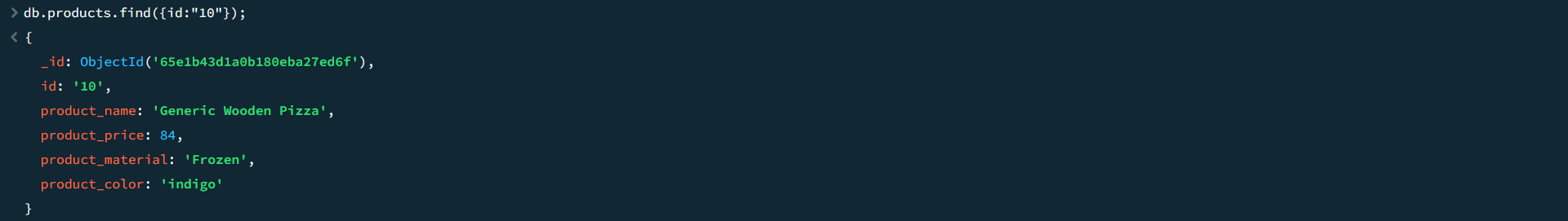
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**6. Find the product with a row id of 10**

**Answer:**

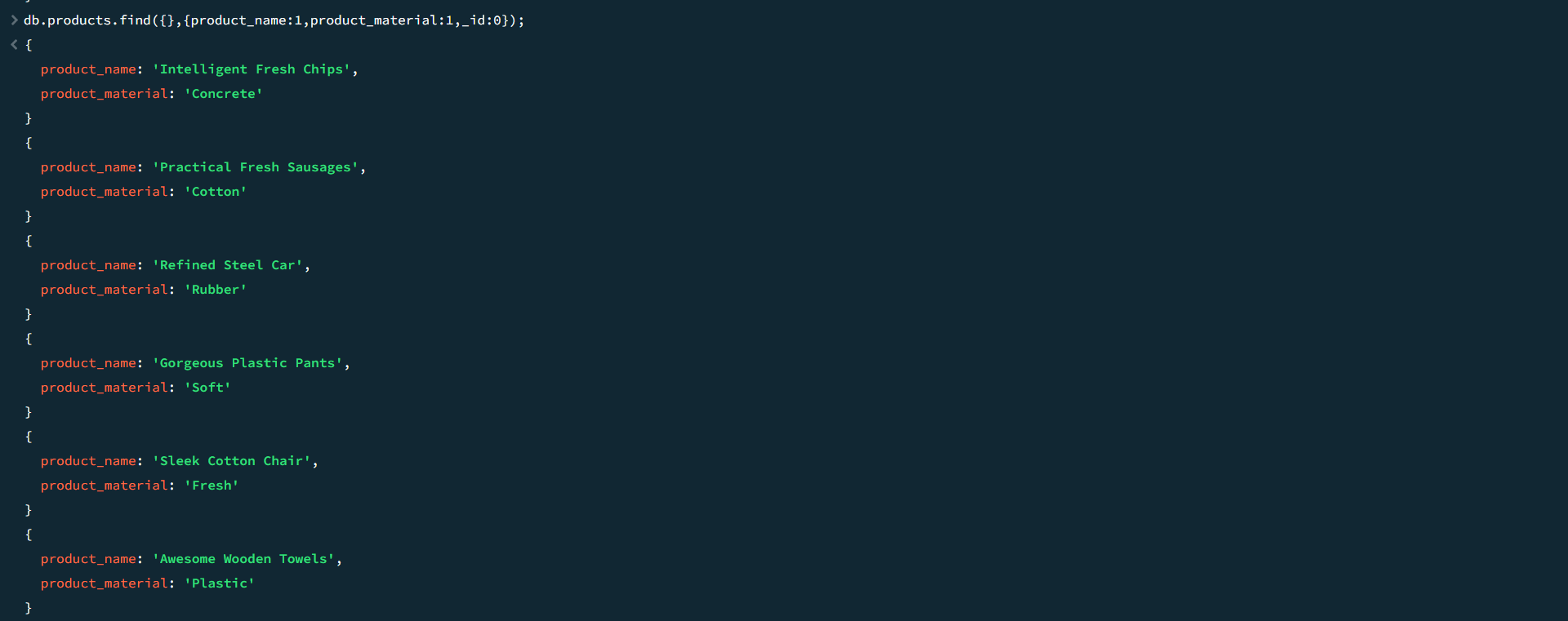
**db.products.find({id:"10"});**

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

**Answer:**

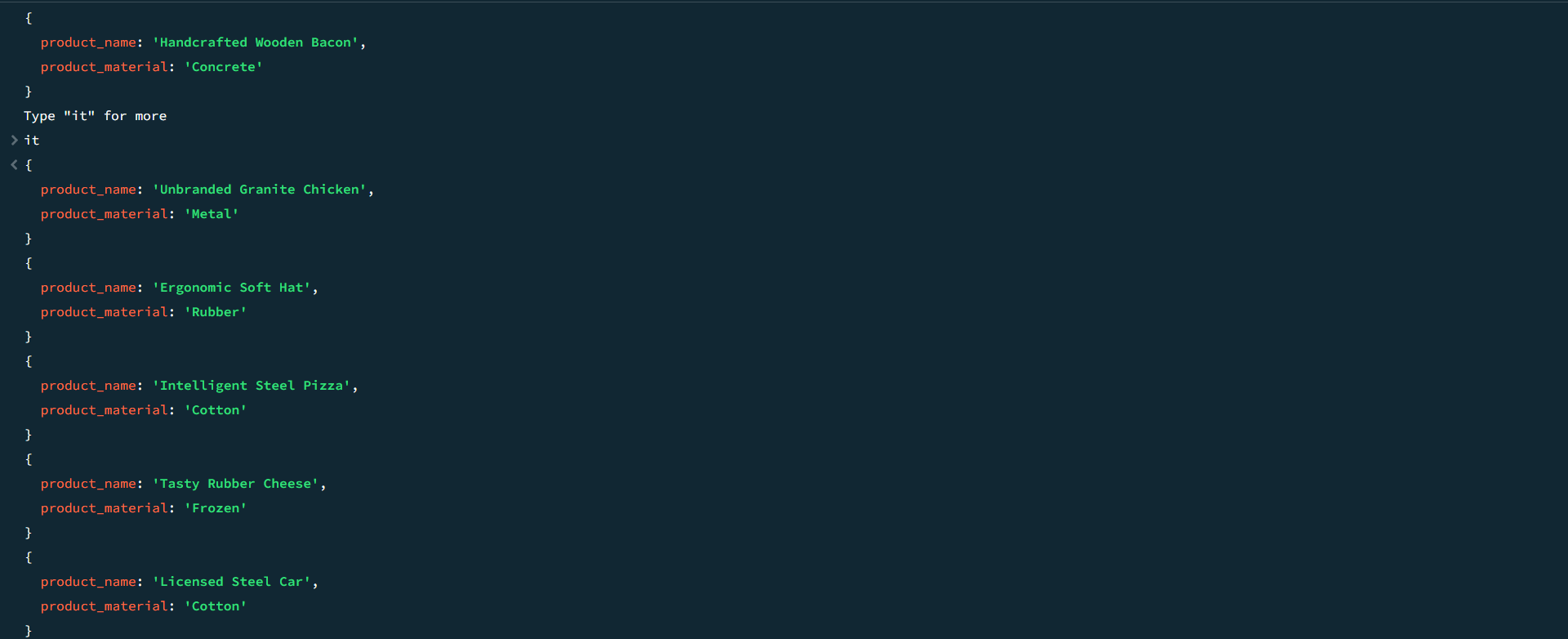
**db.products.find({},{product\_name:1,product\_material:1,\_id:0});**

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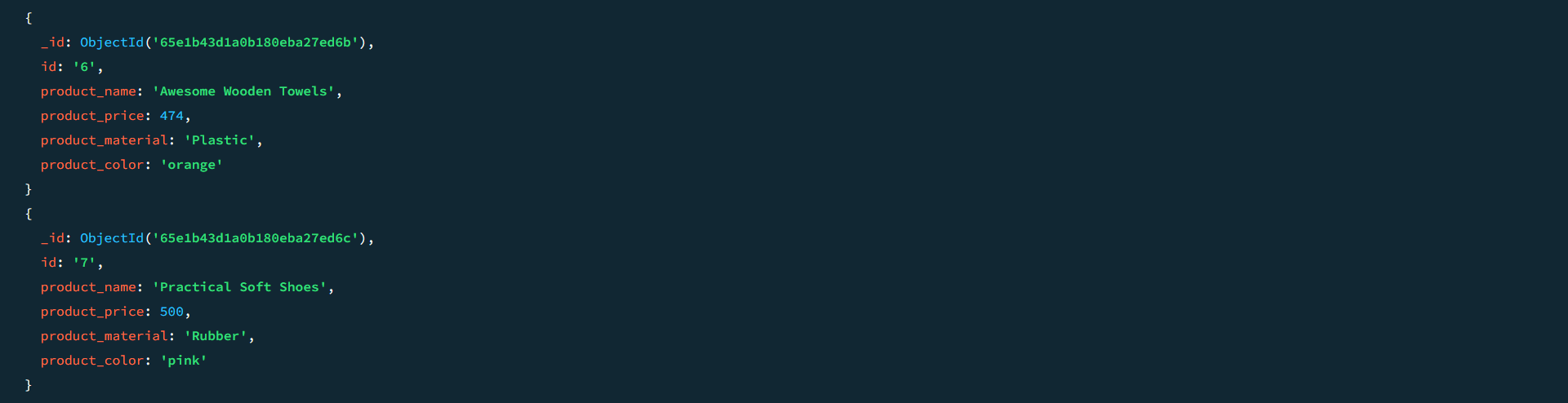
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**8. Find all products which contain the value of soft in product material**

**Answer:**

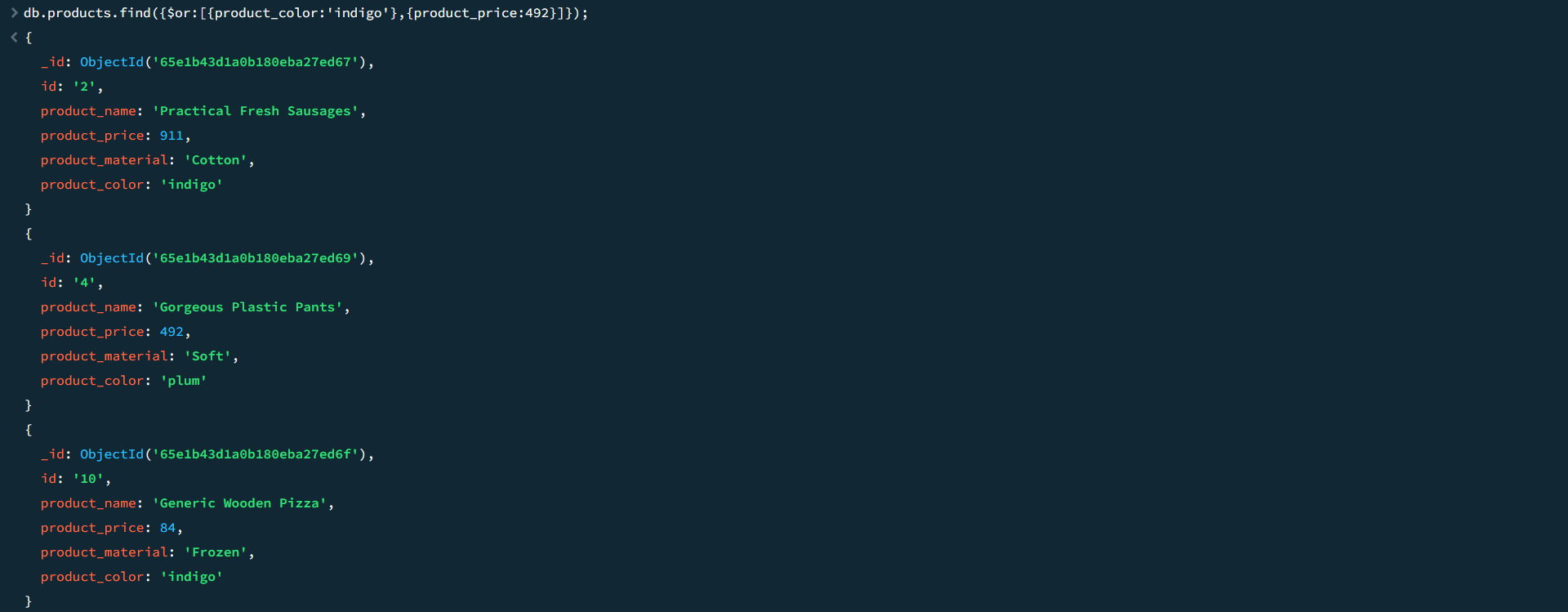
**db.products.find({product\_material:”soft”});**

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

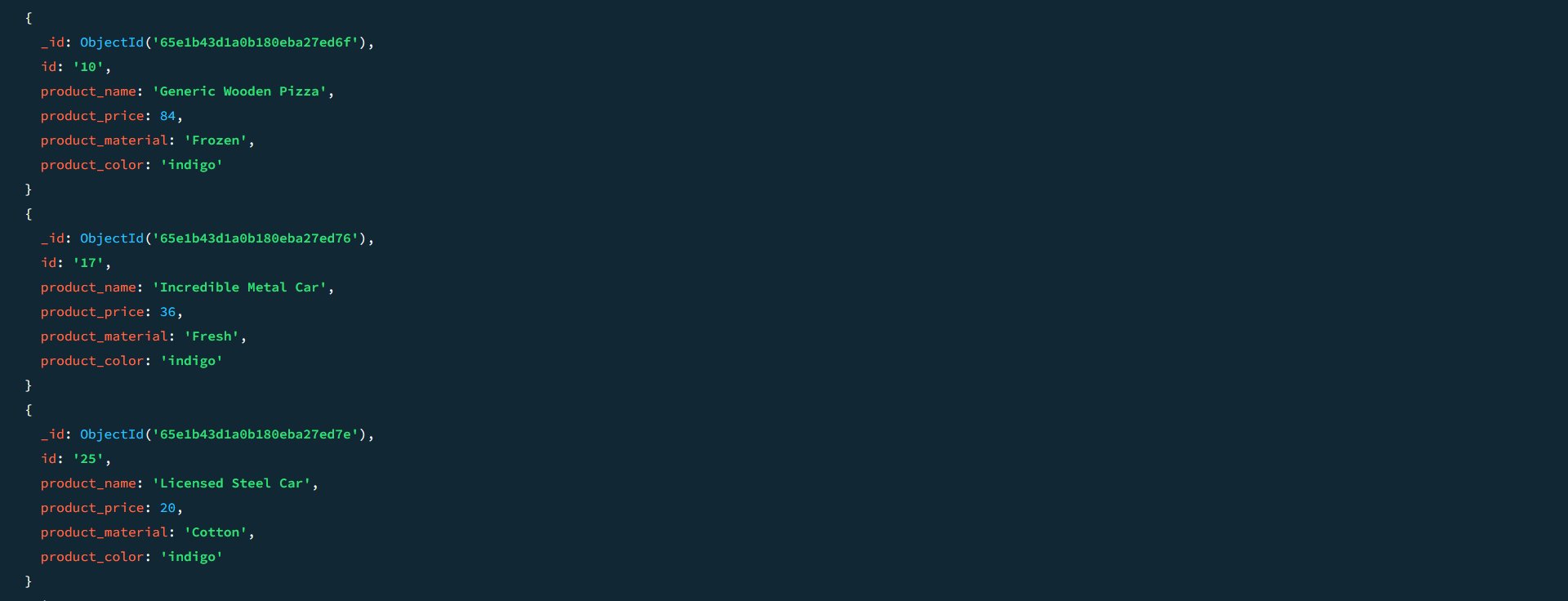
**Answer:**

**db.products.find({$or:[{product\_color:'indigo'},{product\_price:492}]});**

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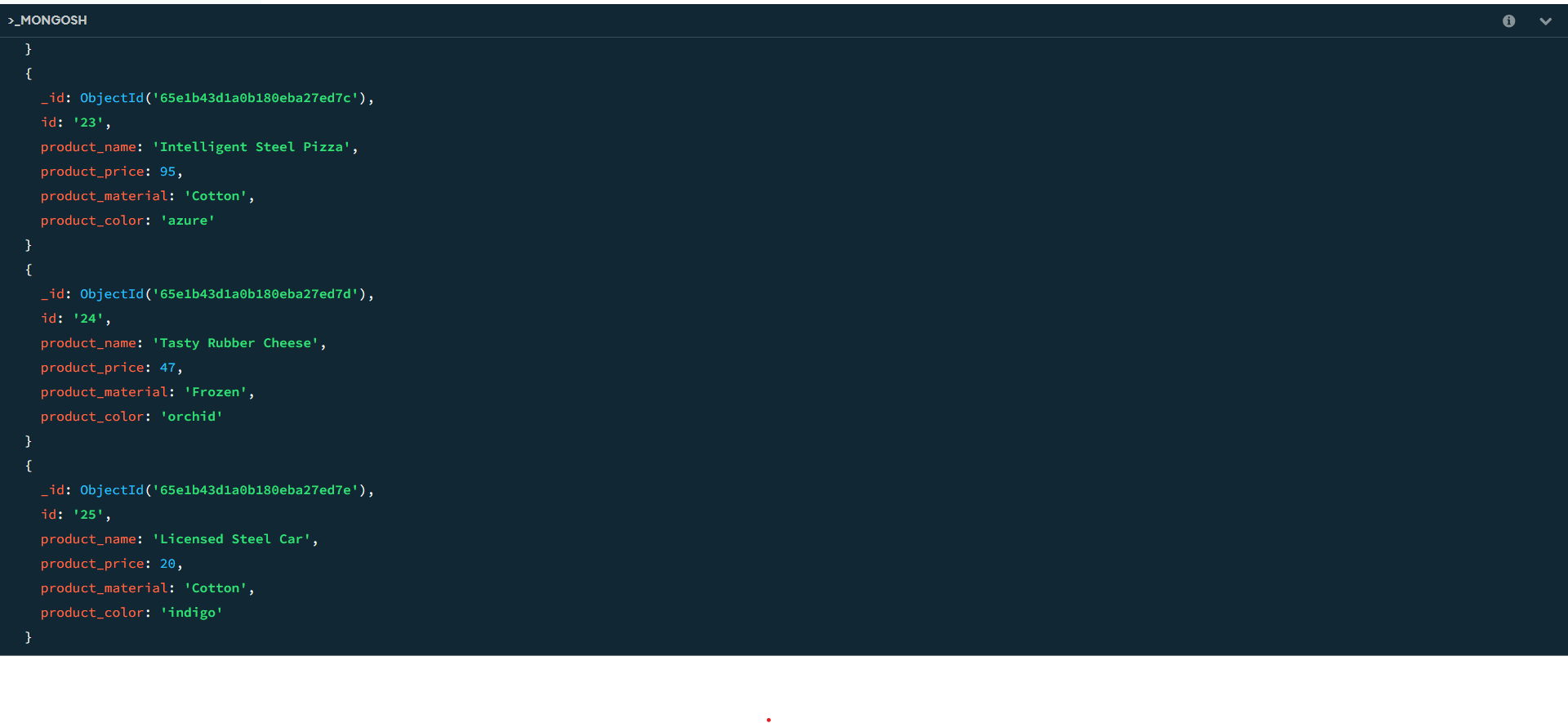
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**10. Delete the products which product price value are same**

**Answer:**

**db.products.aggregate([{$group:{\_id:'$product\_price',count:{$sum:1}}},{$match:{count:{$gt:1}}}]).forEach((e)=>{db.products.deleteMany({product\_price:e.\_id})});**

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