

MongoDB Day-1 Task

1. Find all the information about each products

Query: `db.products.find();`

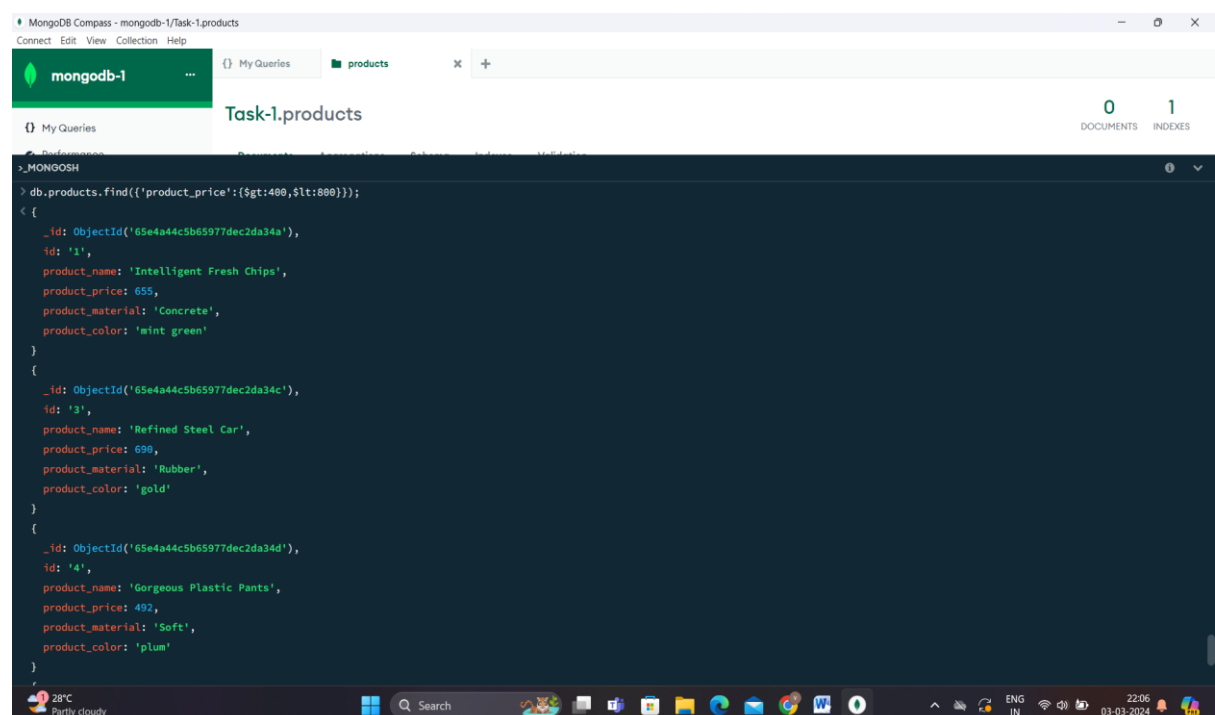
Result:

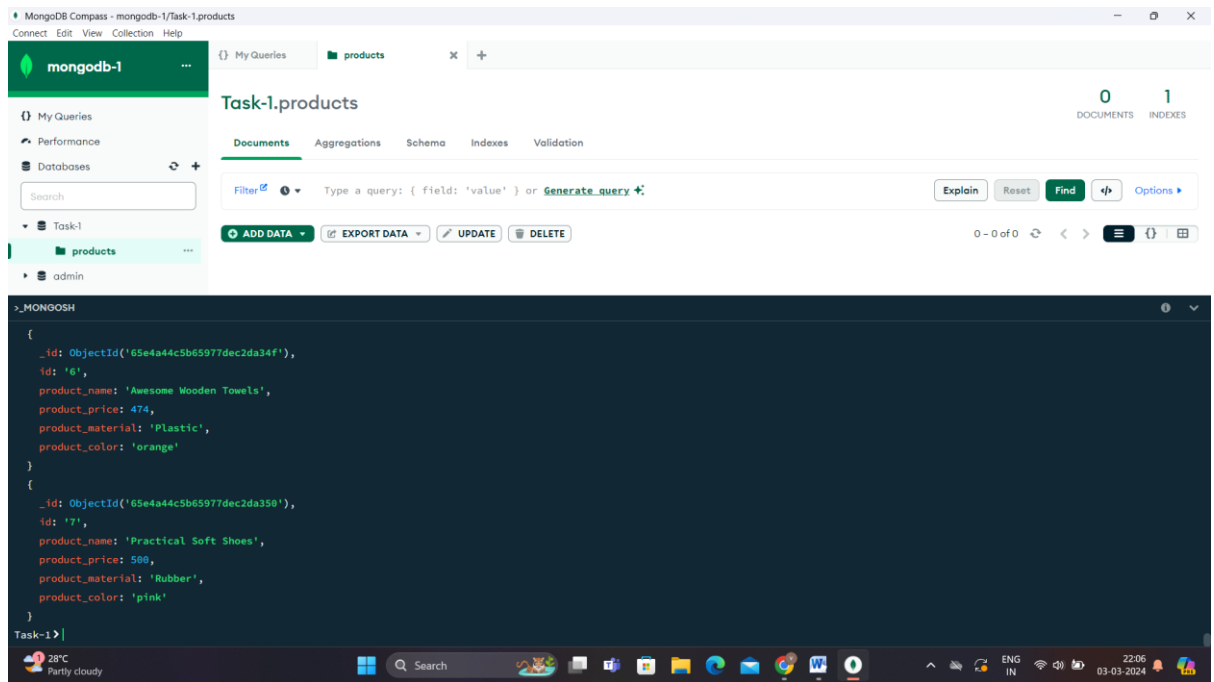
```
{
  _id: ObjectId('65e4a44c5b65977dec2da34a'),
  id: '1',
  product_name: 'Intelligent Fresh Chips',
  product_price: 655,
  product_material: 'Concrete',
  product_color: 'mint green'
}
{
  _id: ObjectId('65e4a44c5b65977dec2da34b'),
  id: '2',
  product_name: 'Practical Fresh Sausages',
  product_price: 911,
  product_material: 'Cotton',
  product_color: 'indigo'
}
.....totally 25 products...
```

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

Query: `db.products.find({'product_price':{$gt:400,$lt:800}});`

Result:

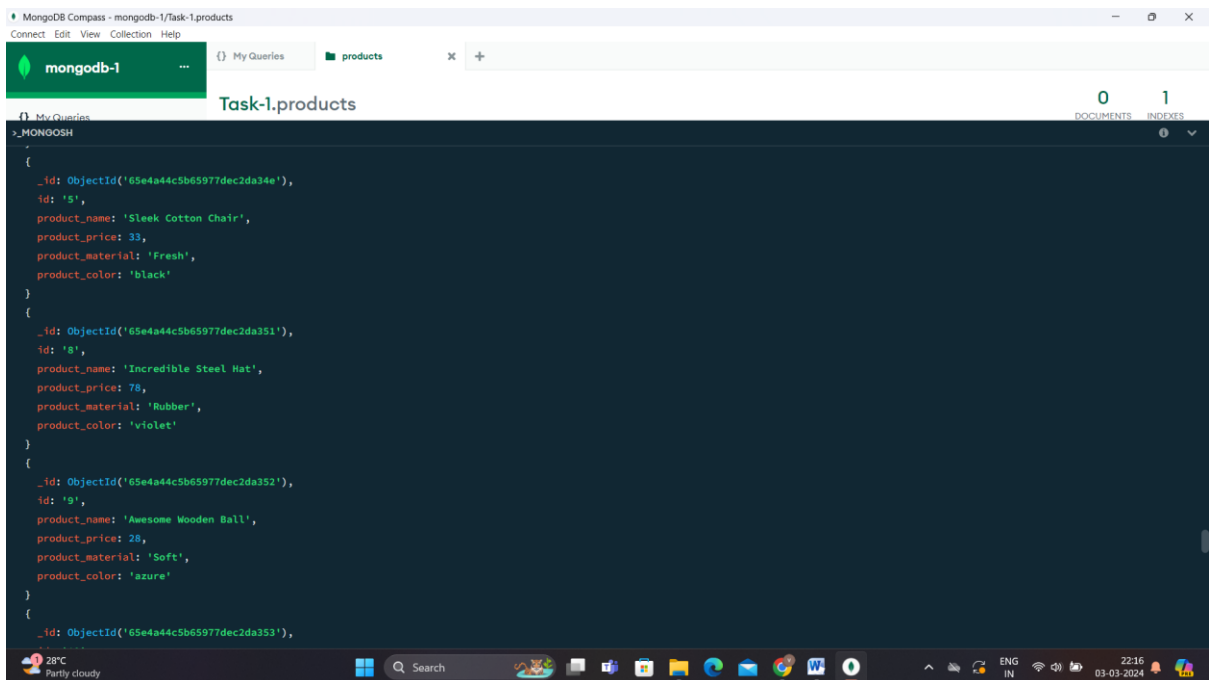




3. Find the product price which are not between 400 to 600

Query: `db.products.find({'product_price': {'$not': {'$gt': 400, '$lt': 600}}});`

Result:



MongoDB Compass - mongod-1/Task-1.products

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mongodb-1

My Queries products

Task-1.products

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```
> db.products.find({'product_price':{'$not':{'$gt':400,$lt:600}}});
{
  "_id": ObjectId("65e4a44c5b65977dec2da34a"),
  "id": '1',
  "product_name": 'Intelligent Fresh Chips',
  "product_price": 655,
  "product_material": 'Concrete',
  "product_color": 'mint green'
}
{
  "_id": ObjectId("65e4a44c5b65977dec2da34b"),
  "id": '2',
  "product_name": 'Practical Fresh Sausages',
  "product_price": 911,
  "product_material": 'Cotton',
  "product_color": 'indigo'
}
{
  "_id": ObjectId("65e4a44c5b65977dec2da34c"),
  "id": '3',
  "product_name": 'Refined Steel Car',
  "product_price": 690,
  "product_material": 'Rubber',
  "product_color": 'gold'
}
}
```

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mongodb-1

My Queries products

Task-1.products

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```
>
{
  "_id": ObjectId("65e4a44c5b65977dec2da35e"),
  "id": '21',
  "product_name": 'Unbranded Granite Chicken',
  "product_price": 90,
  "product_material": 'Metal',
  "product_color": 'gold'
}
{
  "_id": ObjectId("65e4a44c5b65977dec2da35f"),
  "id": '22',
  "product_name": 'Ergonomic Soft Hat',
  "product_price": 99,
  "product_material": 'Rubber',
  "product_color": 'black'
}
{
  "_id": ObjectId("65e4a44c5b65977dec2da360"),
  "id": '23',
  "product_name": 'Intelligent Steel Pizza',
  "product_price": 95,
  "product_material": 'Cotton',
  "product_color": 'azure'
}
}
Type "it" for more
Task-1>
```

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mongodb-1

My Queries products

Task-1.products

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DOCUMENTS INDEXES

```
>
{
  "_id": ObjectId("65e4a44c5b65977dec2da35c"),
  "id": '19',
  "product_name": 'Intelligent Cotton Chips',
  "product_price": 46,
  "product_material": 'Soft',
  "product_color": 'azure'
}
{
  "_id": ObjectId("65e4a44c5b65977dec2da35d"),
  "id": '20',
  "product_name": 'Handcrafted Wooden Bacon',
  "product_price": 36,
  "product_material": 'Concrete',
  "product_color": 'lime'
}
{
  "_id": ObjectId("65e4a44c5b65977dec2da35e"),
  "id": '21',
  "product_name": 'Unbranded Granite Chicken',
  "product_price": 90,
  "product_material": 'Metal',
  "product_color": 'gold'
}
{
  "_id": ObjectId("65e4a44c5b65977dec2da35f"),
  "id": '22',
  "product_name": 'Ergonomic Soft Hat',
  "product_price": 99,
  "product_material": 'Rubber',
  "product_color": 'black'
}
{
  "_id": ObjectId("65e4a44c5b65977dec2da360"),
  "id": '23',
  "product_name": 'Intelligent Steel Pizza',
  "product_price": 95,
  "product_material": 'Cotton',
  "product_color": 'azure'
}
}
```

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My Queries products

Task-1.products

DOCUMENTS 0 INDEXES 1

```
>_MONOOSH
{
  "product_color": "mint green"
}
{
  "_id": ObjectId('65e4a44c5b65977dec2da359'),
  "id": '16',
  "product_name": 'Small Soft Chair',
  "product_price": 47,
  "product_material": 'Cotton',
  "product_color": 'teal'
}
{
  "_id": ObjectId('65e4a44c5b65977dec2da35a'),
  "id": '17',
  "product_name": 'Incredible Metal Car',
  "product_price": 36,
  "product_material": 'Fresh',
  "product_color": 'Indigo'
}
{
  "_id": ObjectId('65e4a44c5b65977dec2da35b'),
  "id": '18',
  "product_name": 'Licensed Plastic Bacon',
  "product_price": 88,
  "product_material": 'Steel',
  "product_color": 'yellow'
}
{
}
```

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MongoDB Compass - mongodb-1/Task-1.products

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My Queries products

Task-1.products

DOCUMENTS 0 INDEXES 1

```
>_MONOOSH
{
  "product_color": "pink",
  "product_name": "moussy"
}
{
  "_id": ObjectId('65e4a44c5b65977dec2da356'),
  "id": '13',
  "product_name": 'Gorgeous Cotton Keyboard',
  "product_price": 37,
  "product_material": 'Concrete',
  "product_color": 'sky blue'
}
{
  "_id": ObjectId('65e4a44c5b65977dec2da357'),
  "id": '14',
  "product_name": 'Incredible Steel Shirt',
  "product_price": 54,
  "product_material": 'Metal',
  "product_color": 'white'
}
{
  "_id": ObjectId('65e4a44c5b65977dec2da358'),
  "id": '15',
  "product_name": 'Ergonomic Cotton Hat',
  "product_price": 43,
  "product_material": 'Rubber',
  "product_color": 'mint green'
}
{
}
```

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My Queries products

Task-1.products

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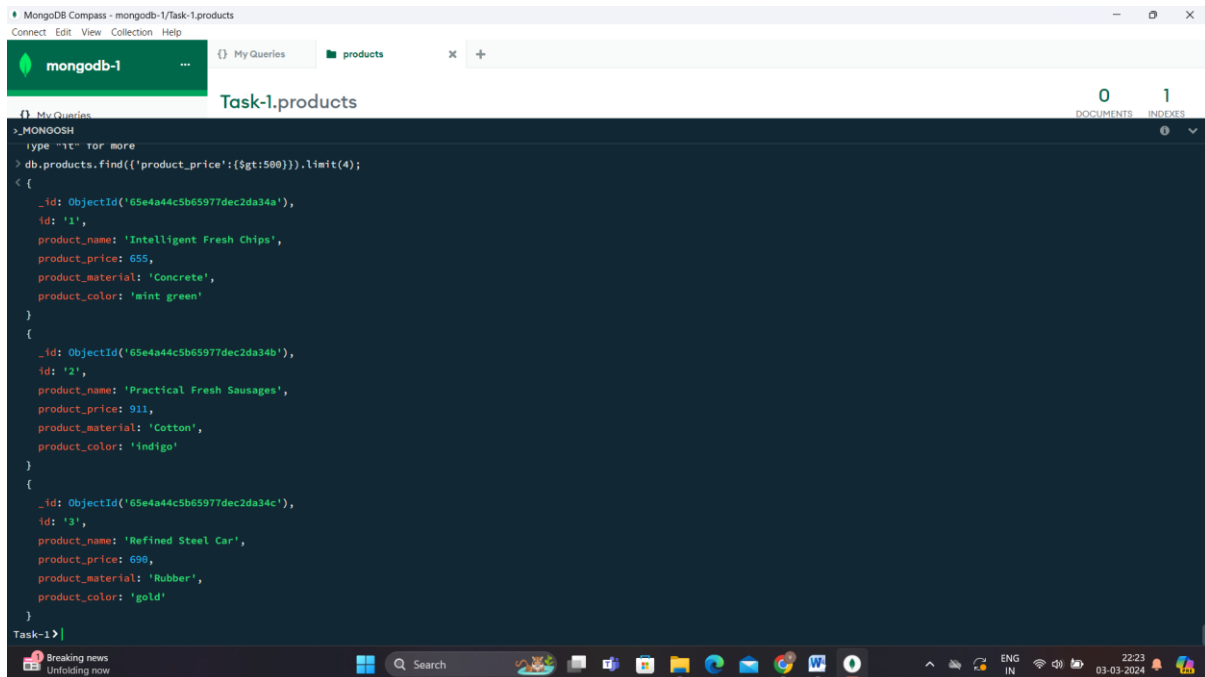
```
>_MONOOSH
{
  "_id": ObjectId('65e4a44c5b65977dec2da353'),
  "id": '10',
  "product_name": 'Generic Wooden Pizza',
  "product_price": 84,
  "product_material": 'Frozen',
  "product_color": 'Indigo'
}
{
  "_id": ObjectId('65e4a44c5b65977dec2da354'),
  "id": '11',
  "product_name": 'Unbranded Wooden Cheese',
  "product_price": 26,
  "product_material": 'Soft',
  "product_color": 'black'
}
{
  "_id": ObjectId('65e4a44c5b65977dec2da355'),
  "id": '12',
  "product_name": 'Unbranded Plastic Salad',
  "product_price": 89,
  "product_material": 'Wooden',
  "product_color": 'pink'
}
{
  "_id": ObjectId('65e4a44c5b65977dec2da356'),
  "id": '13',
  "product_name": 'Gorgeous Cotton Keyboard',
  "product_price": 37,
  "product_material": 'Concrete',
  "product_color": 'sky blue'
}
{
  "_id": ObjectId('65e4a44c5b65977dec2da357'),
  "id": '14',
  "product_name": 'Incredible Steel Shirt',
  "product_price": 54,
  "product_material": 'Metal',
  "product_color": 'white'
}
{
  "_id": ObjectId('65e4a44c5b65977dec2da358'),
  "id": '15',
  "product_name": 'Ergonomic Cotton Hat',
  "product_price": 43,
  "product_material": 'Rubber',
  "product_color": 'mint green'
}
{
  "_id": ObjectId('65e4a44c5b65977dec2da359'),
  "id": '16',
  "product_name": 'Small Soft Chair',
  "product_price": 47,
  "product_material": 'Cotton',
  "product_color": 'teal'
}
{
  "_id": ObjectId('65e4a44c5b65977dec2da35a'),
  "id": '17',
  "product_name": 'Incredible Metal Car',
  "product_price": 36,
  "product_material": 'Fresh',
  "product_color": 'Indigo'
}
{
  "_id": ObjectId('65e4a44c5b65977dec2da35b'),
  "id": '18',
  "product_name": 'Licensed Plastic Bacon',
  "product_price": 88,
  "product_material": 'Steel',
  "product_color": 'yellow'
}
{
}
```

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

Query: `db.products.find({'product_price':{$gt:500}}).limit(4);`

Result:



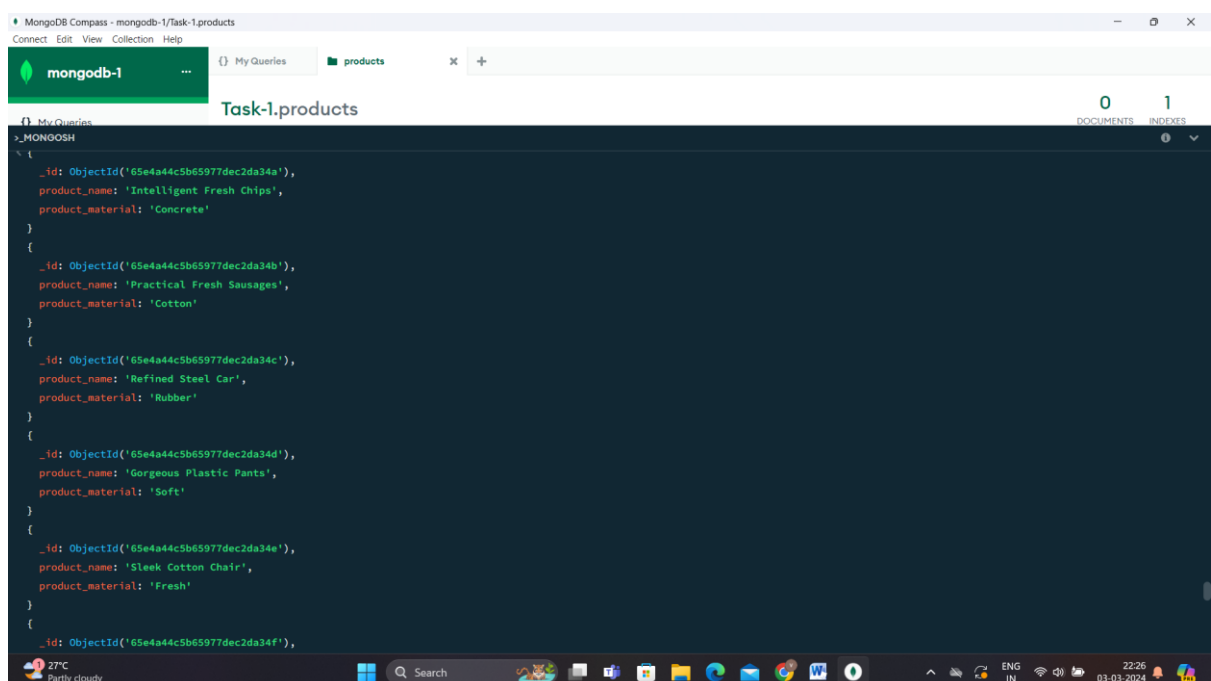
The screenshot shows the MongoDB Compass interface. The top bar indicates the connection to 'mongodb-1' and the 'products' collection. The main panel displays a query in the 'My Queries' tab: `type "it" for more` followed by `db.products.find({'product_price':{$gt:500}}).limit(4);`. The results are shown in a JSON array format, listing four products with their IDs, names, prices, materials, and colors. The bottom status bar shows the system time as 22:23 on 03-03-2024.

```
> type "it" for more
> db.products.find({'product_price':{$gt:500}}).limit(4);
[
  {
    _id: ObjectId('65e4a44c5b65977dec2da34a'),
    id: '1',
    product_name: 'Intelligent Fresh Chips',
    product_price: 655,
    product_material: 'Concrete',
    product_color: 'mint green'
  },
  {
    _id: ObjectId('65e4a44c5b65977dec2da34b'),
    id: '2',
    product_name: 'Practical Fresh Sausages',
    product_price: 911,
    product_material: 'Cotton',
    product_color: 'indigo'
  },
  {
    _id: ObjectId('65e4a44c5b65977dec2da34c'),
    id: '3',
    product_name: 'Refined Steel Car',
    product_price: 699,
    product_material: 'Rubber',
    product_color: 'gold'
  }
]
```

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

Query: `db.products.find({},{'product_name':1,product_material:1});`

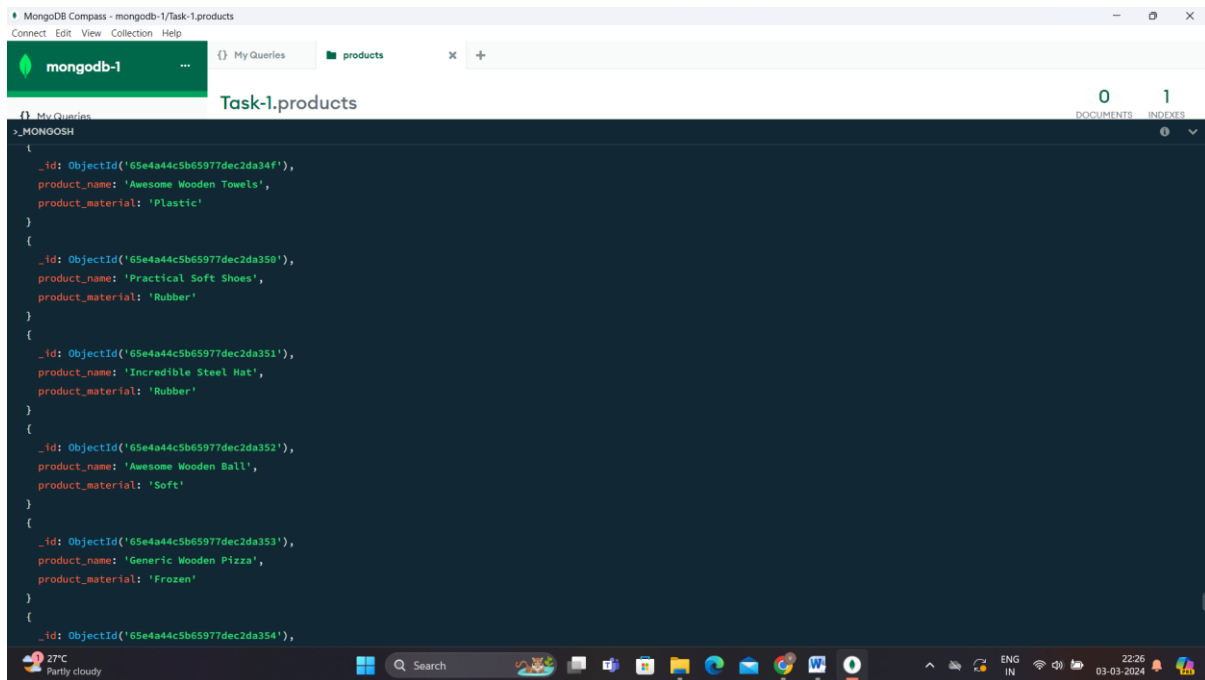
Result:



The screenshot shows the MongoDB Compass interface. The top bar indicates the connection to 'mongodb-1' and the 'products' collection. The main panel displays a query in the 'My Queries' tab: `db.products.find({},{'product_name':1,product_material:1});`. The results are shown in a JSON array format, listing five products with their IDs, names, and materials. The bottom status bar shows the system time as 22:26 on 03-03-2024.

```
> db.products.find({},{'product_name':1,product_material:1});
[
  {
    _id: ObjectId('65e4a44c5b65977dec2da34a'),
    product_name: 'Intelligent Fresh Chips',
    product_material: 'Concrete'
  },
  {
    _id: ObjectId('65e4a44c5b65977dec2da34b'),
    product_name: 'Practical Fresh Sausages',
    product_material: 'Cotton'
  },
  {
    _id: ObjectId('65e4a44c5b65977dec2da34c'),
    product_name: 'Refined Steel Car',
    product_material: 'Rubber'
  },
  {
    _id: ObjectId('65e4a44c5b65977dec2da34d'),
    product_name: 'Gorgeous Plastic Pants',
    product_material: 'Soft'
  },
  {
    _id: ObjectId('65e4a44c5b65977dec2da34e'),
    product_name: 'Sleek Cotton Chair',
    product_material: 'Fresh'
  },
  {
    _id: ObjectId('65e4a44c5b65977dec2da34f'),

```

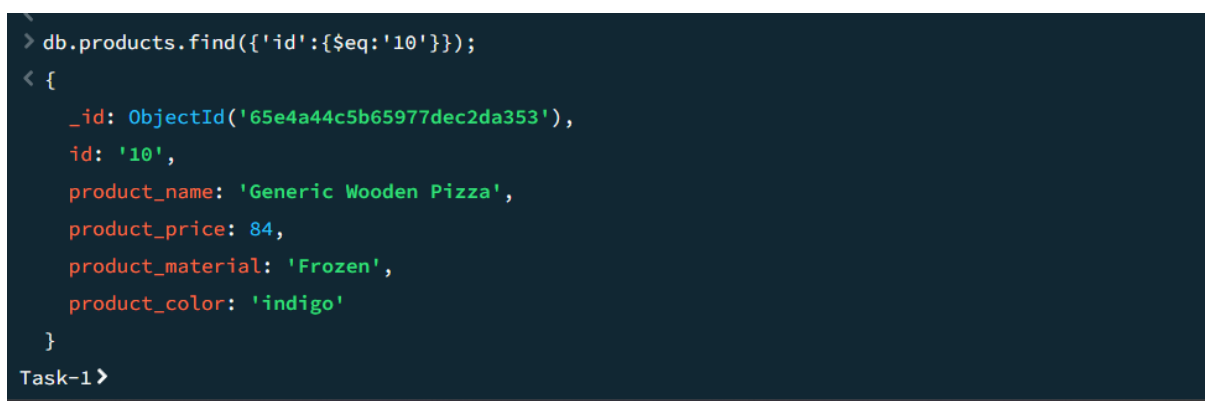


....all 25 products with name and matireals,,,

6. Find the product with a row id of 10

Query: `db.products.find({'id':{$eq:'10'}});`

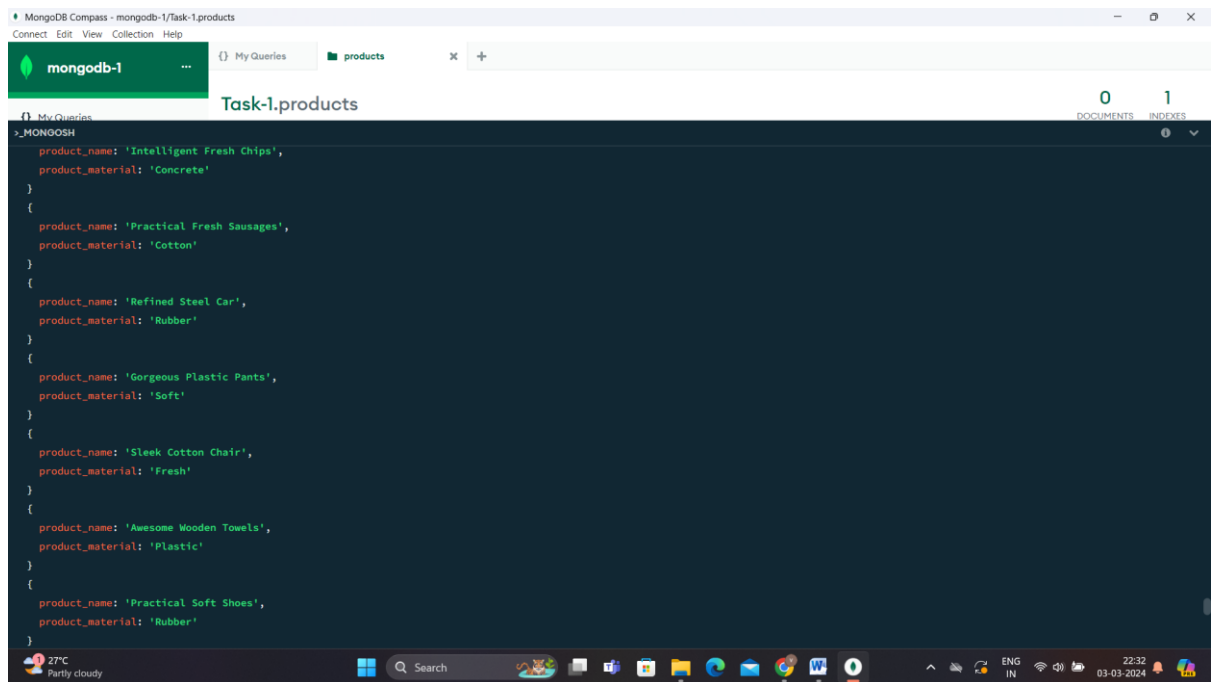
Result:



7. Find only the product name and product material

Query: `db.products.find({}, {_id:0,product_name:1,product_material:1});`

Result:



MongoDB Compass - mongodb-1/Task-1.products

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mongodb-1

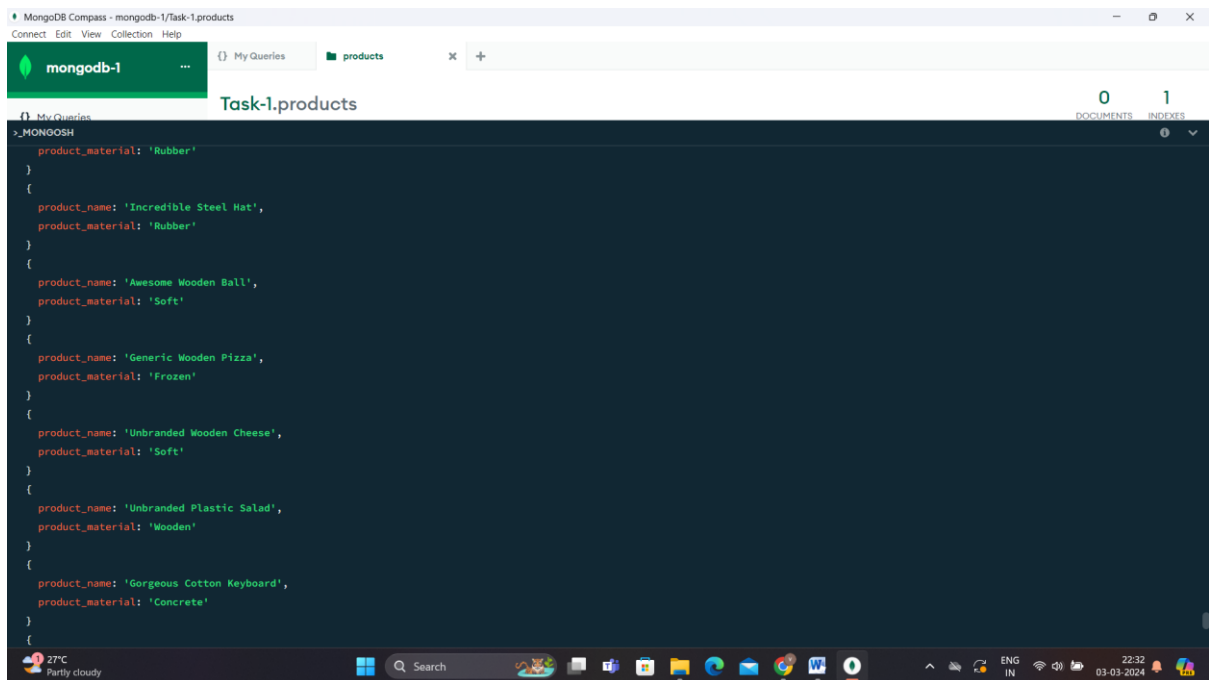
My Queries

products

Task-1.products

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```
>_MONGOOSH
{
  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'
}
}
```



MongoDB Compass - mongodb-1/Task-1.products

Connect Edit View Collection Help

mongodb-1

My Queries

products

Task-1.products

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```
>_MONGOOSH
{
  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'
}
}
```

.... All 25 produs_name & materials only

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

Query: `db.products.find({product_material:{$eq:'Soft'}});`

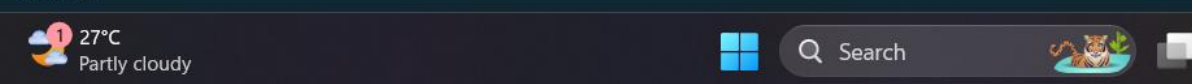
Result:

```
<
> db.products.find({product_material:{$eq:'Soft'}});
< {
  _id: ObjectId('65e4a44c5b65977dec2da34d'),
  id: '4',
  product_name: 'Gorgeous Plastic Pants',
  product_price: 492,
  product_material: 'Soft',
  product_color: 'plum'
}
{
  _id: ObjectId('65e4a44c5b65977dec2da352'),
  id: '9',
  product_name: 'Awesome Wooden Ball',
  product_price: 28,
  product_material: 'Soft',
  product_color: 'azure'
}
{
  _id: ObjectId('65e4a44c5b65977dec2da354'),
  id: '11',
  product_name: 'Unbranded Wooden Cheese',
  product_price: 26,
  product_material: 'Soft',
  product_color: 'black'
}
{
  _id: ObjectId('65e4a44c5b65977dec2da35c'),
  id: '19',
  product_name: 'Intelligent Cotton Chips',
  product_price: 46,
  product_material: 'Soft',
  product_color: 'azure'
}
}
```



```
{
  _id: ObjectId('65e4a44c5b65977dec2da35c'),
  id: '19',
  product_name: 'Intelligent Cotton Chips',
  product_price: 46,
  product_material: 'Soft',
  product_color: 'azure'
}
```

Task-1 >




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

Query:

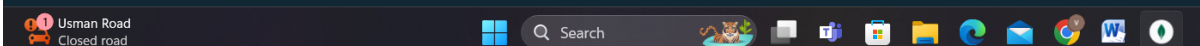
```
db.products.find({'$or':[{'product_color':{'$eq':'indigo'}},{'product_price':{'$eq:492.00}}}]);
```

Result:

```
< {
  _id: ObjectId('65e4a44c5b65977dec2da34b'),
  id: '2',
  product_name: 'Practical Fresh Sausages',
  product_price: 911,
  product_material: 'Cotton',
  product_color: 'indigo'
}
{
  _id: ObjectId('65e4a44c5b65977dec2da34d'),
  id: '4',
  product_name: 'Gorgeous Plastic Pants',
  product_price: 492,
  product_material: 'Soft',
  product_color: 'plum'
}
{
  _id: ObjectId('65e4a44c5b65977dec2da353'),
  id: '10',
  product_name: 'Generic Wooden Pizza',
  product_price: 84,
  product_material: 'Frozen',
  product_color: 'indigo'
}
>
```



```
{
  _id: ObjectId('65e4a44c5b65977dec2da35a'),
  id: '17',
  product_name: 'Incredible Metal Car',
  product_price: 36,
  product_material: 'Fresh',
  product_color: 'indigo'
}
{
  _id: ObjectId('65e4a44c5b65977dec2da362'),
  id: '25',
  product_name: 'Licensed Steel Car',
  product_price: 20,
  product_material: 'Cotton',
  product_color: 'indigo'
}
Task-1>
```



10. Delete the products which product price value are same

Query:

```
db.products.aggregate([{$group: {_id: '$product_price', count: {$sum: 1}}, {$match: {count: {$gt: 1}}}], {eachSliceLimit: 1}).forEach((e) => {db.products.deleteMany({product_price: e._id});});
```