

# MongoDB-Task-1

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- 1) Find all the information about each products.

```
> db.products.find();
```

```
< {
  _id: ObjectId('65e0729787bbd0f590e22c79'),
  id: '1',
  product_name: 'Intelligent Fresh Chips',
  product_price: 655,
  product_material: 'Concrete',
  product_color: 'mint green'
}
{
  _id: ObjectId('65e0729787bbd0f590e22c7a'),
  id: '2',
  product_name: 'Practical Fresh Sausages',
  product_price: 911,
  product_material: 'Cotton',
  product_color: 'indigo'
}
{
  _id: ObjectId('65e0729787bbd0f590e22c7b'),
  id: '3',
  product_name: 'Refined Steel Car',
  product_price: 690,
  product_material: 'Rubber',
  product_color: 'gold'
}
```

Totally got **25 Document** of informations.

- 2) Find the product price which are between 400 to 800

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

```
< {  
  _id: ObjectId('65e0729787bbd0f590e22c79'),  
  id: '1',  
  product_name: 'Intelligent Fresh Chips',  
  product_price: 655,  
  product_material: 'Concrete',  
  product_color: 'mint green'  
}  
{  
  _id: ObjectId('65e0729787bbd0f590e22c7b'),  
  id: '3',  
  product_name: 'Refined Steel Car',  
  product_price: 690,  
  product_material: 'Rubber',  
  product_color: 'gold'  
}  
{  
  _id: ObjectId('65e0729787bbd0f590e22c7c'),  
  id: '4',  
  product_name: 'Gorgeous Plastic Pants',  
  product_price: 492,  
  product_material: 'Soft',  
  product_color: 'plum'  
}
```

Totally **5 Documents** Have price between 400 to 800.

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

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

```
< {
  _id: ObjectId('65e0729787bbd0f590e22c79'),
  id: '1',
  product_name: 'Intelligent Fresh Chips',
  product_price: 655,
  product_material: 'Concrete',
  product_color: 'mint green'
}
{
  _id: ObjectId('65e0729787bbd0f590e22c7a'),
  id: '2',
  product_name: 'Practical Fresh Sausages',
  product_price: 911,
  product_material: 'Cotton',
  product_color: 'indigo'
}
{
  _id: ObjectId('65e0729787bbd0f590e22c7b'),
  id: '3',
  product_name: 'Refined Steel Car',
  product_price: 690,
  product_material: 'Rubber',
  product_color: 'gold'
}
```

```
> db.products.find({"product_price":{$not:{$gt:400,$lt:600}}}).count();
< 22
```

Totally **22 Documents** not between 400 to 600.

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

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

```
< {
  _id: ObjectId('65e0729787bbd0f590e22c79'),
  id: '1',
  product_name: 'Intelligent Fresh Chips',
  product_price: 655,
  product_material: 'Concrete',
  product_color: 'mint green'
}
{
  _id: ObjectId('65e0729787bbd0f590e22c7a'),
  id: '2',
  product_name: 'Practical Fresh Sausages',
  product_price: 911,
  product_material: 'Cotton',
  product_color: 'indigo'
}
{
  _id: ObjectId('65e0729787bbd0f590e22c7b'),
  id: '3',
  product_name: 'Refined Steel Car',
  product_price: 690,
  product_material: 'Rubber',
  product_color: 'gold'
}
```

Totally we got only **3 Documents** have product price greater than 500.

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

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

```
> db.products.find({},{'_id':0,'product_name':1,'product_material':1}).count();
< 25
```

We got **25 components** product name and product material in result .

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

```
> db.products.find({'id':'10'});
```

```
< {  
  _id: ObjectId('65e0729787bbd0f590e22c82'),  
  id: '10',  
  product_name: 'Generic Wooden Pizza',  
  product_price: 84,  
  product_material: 'Frozen',  
  product_color: 'indigo'  
}
```

Only **one product Document** have an row id 10.

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7) Find only the product name and product material.

```
> db.products.find({'id':'8'},{'_id':0,'product_name':1,'product_material':1});
```

```
< {  
  product_name: 'Incredible Steel Hat',  
  product_material: 'Rubber'  
}
```

Randomly I choose an id:8 's product name and product material.

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

```
> db.products.find({'product_material':'Soft'});
```

```
< {
  _id: ObjectId('65e0729787bbd0f590e22c7c'),
  id: '4',
  product_name: 'Gorgeous Plastic Pants',
  product_price: 492,
  product_material: 'Soft',
  product_color: 'plum'
}
{
  _id: ObjectId('65e0729787bbd0f590e22c81'),
  id: '9',
  product_name: 'Awesome Wooden Ball',
  product_price: 28,
  product_material: 'Soft',
  product_color: 'azure'
}
{
  _id: ObjectId('65e0729787bbd0f590e22c83'),
  id: '11',
  product_name: 'Unbranded Wooden Cheese',
  product_price: 26,
  product_material: 'Soft',
  product_color: 'black'
}
```

```
> db.products.find({'product_material':'Soft'}).count();
< 4
```

Totally, **4 Product document** contain product material as Soft.

- 9) Find products which contain product colour indigo and product price 492.00.

```
> db.products.find({'$and':[{'product_color':'indigo'},{'product_price':492.00}]});  
<  
MongoDB-Task1 >
```

**There is no** Product have a Document with product colour indigo and product price 492.00

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- 10) Delete the products which product price value are same

```
> db.products.aggregate([{$group:{_id:"$product_price",duplicate:{$addToSet:"$_id"},  
count:{$sum:1}}},  
{$match:{count:{$gt:1}  
}  
}  
]).forEach(function(doc){db.product.deleteOne({_id:{$in:doc.duplicates}})  
})
```

**There is no** products contain same product price.