

1. Find all the information about each products  
db.Products.find();

```
{
  _id: ObjectId('65e02797b390580f7cc402d5'),
  id: '1',
  product_name: 'Intelligent Fresh Chips',
  product_price: 655,
  product_material: 'Concrete',
  product_color: 'mint green'
}
```

```
{
  _id: ObjectId('65e02797b390580f7cc402d6'),
  id: '2',
  product_name: 'Practical Fresh Sausages',
  product_price: 911,
  product_material: 'Cotton',
  product_color: 'indigo'
}
```

....

25

2. Find the product price which are between 400 to 800  
db.Products.find({"product\_price":{\$gt:400,\$lt:800}});

```
{
  _id: ObjectId('65e02797b390580f7cc402d5'),
  id: '1',
  product_name: 'Intelligent Fresh Chips',
  product_price: 655,
  product_material: 'Concrete',
```

```

product_color: 'mint green'
}
{
  _id: ObjectId('65e02797b390580f7cc402d7'),
  id: '3',
  product_name: 'Refined Steel Car',
  product_price: 690,
  product_material: 'Rubber',
  product_color: 'gold'
}
{
  _id: ObjectId('65e02797b390580f7cc402d8'),
  id: '4',
  product_name: 'Gorgeous Plastic Pants',
  product_price: 492,
  product_material: 'Soft',
  product_color: 'plum'
}
{
  _id: ObjectId('65e02797b390580f7cc402da'),
  id: '6',
  product_name: 'Awesome Wooden Towels',
  product_price: 474,
  product_material: 'Plastic',
  product_color: 'orange'
}

```

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

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

```
{
  _id: ObjectId('65e02797b390580f7cc402d5'),
  id: '1',
  product_name: 'Intelligent Fresh Chips',
  product_price: 655,
  product_material: 'Concrete',
  product_color: 'mint green'
}
```

```
{
  _id: ObjectId('65e02797b390580f7cc402d6'),
  id: '2',
  product_name: 'Practical Fresh Sausages',
  product_price: 911,
  product_material: 'Cotton',
  product_color: 'indigo'
}
```

```
....
```

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

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

```
{
  _id: ObjectId('65e02797b390580f7cc402d5'),
  id: '1',
  product_name: 'Intelligent Fresh Chips',
  product_price: 655,
  product_material: 'Concrete',
  product_color: 'mint green'
}
```

```
{
  _id: ObjectId('65e02797b390580f7cc402d6'),
  id: '2',
```

```
product_name: 'Practical Fresh Sausages',
product_price: 911,
product_material: 'Cotton',
product_color: 'indigo'
}
```

```
{
  _id: ObjectId('65e02797b390580f7cc402d7'),
  id: '3',
  product_name: 'Refined Steel Car',
  product_price: 690,
  product_material: 'Rubber',
  product_color: 'gold'
}
```

```
5.db.Products.find({{"product_name":1,"product_material":1})
```

```
{
  _id: ObjectId('65e02797b390580f7cc402d5'),
  product_name: 'Intelligent Fresh Chips',
  product_material: 'Concrete'
}
```

```
{
  _id: ObjectId('65e02797b390580f7cc402d6'),
  product_name: 'Practical Fresh Sausages',
  product_material: 'Cotton'
}
```

...25

6. Find the product with a row id of 10

```
db.Products.findOne({"id":"10"});
```

```
{
  _id: ObjectId('65e02797b390580f7cc402de'),
  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  
 db.Products.findOne({"id":"10"},{"product\_name":1,"product\_material":1});

```
{
  _id: ObjectId('65e02797b390580f7cc402de'),
  product_name: 'Generic Wooden Pizza',
  product_material: 'Frozen'
}
```

8. Find all products which contain the value of soft in product material  
 db.Products.find({},{"product\_material": "Soft"});

```
{
  _id: ObjectId('65e02797b390580f7cc402d5'),
  product_material: 'Soft'
}
{
  _id: ObjectId('65e02797b390580f7cc402d6'),
  product_material: 'Soft'
}
```

```
{
  _id: ObjectId('65e02797b390580f7cc402d7'),
  product_material: 'Soft'
}
{
  _id: ObjectId('65e02797b390580f7cc402d8'),
  product_material: 'Soft'
}
{
  _id: ObjectId('65e02797b390580f7cc402d9'),
  product_material: 'Soft'
}
{
  _id: ObjectId('65e02797b390580f7cc402da'),
  product_material: 'Soft'
}
{
  _id: ObjectId('65e02797b390580f7cc402db'),
  product_material: 'Soft'
}
{
  _id: ObjectId('65e02797b390580f7cc402dc'),
  product_material: 'Soft'
}
{
  _id: ObjectId('65e02797b390580f7cc402dd'),
  product_material: 'Soft'
}
```

```
{
  _id: ObjectId('65e02797b390580f7cc402de'),
  product_material: 'Soft'
}
{
  _id: ObjectId('65e02797b390580f7cc402df'),
  product_material: 'Soft'
}
{
  _id: ObjectId('65e02797b390580f7cc402e0'),
  product_material: 'Soft'
}
{
  _id: ObjectId('65e02797b390580f7cc402e1'),
  product_material: 'Soft'
}
{
  _id: ObjectId('65e02797b390580f7cc402e2'),
  product_material: 'Soft'
}
{
  _id: ObjectId('65e02797b390580f7cc402e3'),
  product_material: 'Soft'
}
{
  _id: ObjectId('65e02797b390580f7cc402e4'),
  product_material: 'Soft'
}
```

```
{
  _id: ObjectId('65e02797b390580f7cc402e5'),
  product_material: 'Soft'
}
{
  _id: ObjectId('65e02797b390580f7cc402e6'),
  product_material: 'Soft'
}
{
  _id: ObjectId('65e02797b390580f7cc402e7'),
  product_material: 'Soft'
}
```

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

```
db.Products.find({}, {"product_color": "indigo", "product_price": "492"});
```

```
{
  _id: ObjectId('65e02797b390580f7cc402d5'),
  product_color: 'indigo',
  product_price: '492'
}
{
  _id: ObjectId('65e02797b390580f7cc402d6'),
  product_color: 'indigo',
  product_price: '492'
}
{
  _id: ObjectId('65e02797b390580f7cc402d7'),
```



```
product_color: 'indigo',
product_price: '492'
}
{
  _id: ObjectId('65e02797b390580f7cc402d8'),
  product_color: 'indigo',
  product_price: '492'
}
{
  _id: ObjectId('65e02797b390580f7cc402d9'),
  product_color: 'indigo',
  product_price: '492'
}
{
  _id: ObjectId('65e02797b390580f7cc402da'),
  product_color: 'indigo',
  product_price: '492'
}
{
  _id: ObjectId('65e02797b390580f7cc402db'),
  product_color: 'indigo',
  product_price: '492'
}
{
  _id: ObjectId('65e02797b390580f7cc402dc'),
  product_color: 'indigo',
  product_price: '492'
}
```

```
{
  _id: ObjectId('65e02797b390580f7cc402dd'),
  product_color: 'indigo',
  product_price: '492'
}
```

```
{
  _id: ObjectId('65e02797b390580f7cc402de'),
  product_color: 'indigo',
  product_price: '492'
}
```

```
{
  _id: ObjectId('65e02797b390580f7cc402df'),
  product_color: 'indigo',
  product_price: '492'
}
```

```
{
  _id: ObjectId('65e02797b390580f7cc402e0'),
  product_color: 'indigo',
  product_price: '492'
}
```

```
{
  _id: ObjectId('65e02797b390580f7cc402e1'),
  product_color: 'indigo',
  product_price: '492'
}
```

```
{
  _id: ObjectId('65e02797b390580f7cc402e2'),
  product_color: 'indigo',
  product_price: '492'
}
```

```
product_price: '492'
}
{
  _id: ObjectId('65e02797b390580f7cc402e3'),
  product_color: 'indigo',
  product_price: '492'
}
{
  _id: ObjectId('65e02797b390580f7cc402e4'),
  product_color: 'indigo',
  product_price: '492'
}
{
  _id: ObjectId('65e02797b390580f7cc402e5'),
  product_color: 'indigo',
  product_price: '492'
}
{
  _id: ObjectId('65e02797b390580f7cc402e6'),
  product_color: 'indigo',
  product_price: '492'
}
{
  _id: ObjectId('65e02797b390580f7cc402e7'),
  product_color: 'indigo',
  product_price: '492'
}
```

10. Delete the products which product price value are same

```
db.Products.aggregate([
  {
    $group: {
      _id: "$product_price",
      count: { $sum: 1 },
      docs: { $push: "$$ROOT" }
    },
  },
  {
    $match: {
      count: { $eq: 1 }
    },
  },
  {
    $unwind: "$docs"
  },
  {
    $replaceWith: "$docs"
  }
])
```

```
{
  _id: ObjectId('65e02797b390580f7cc402da'),
  id: '6',
  product_name: 'Awesome Wooden Towels',
  product_price: 474,
  product_material: 'Plastic',
  product_color: 'orange'
}

{
  _id: ObjectId('65e02797b390580f7cc402d6'),
  id: '2',
  product_name: 'Practical Fresh Sausages',
  product_price: 911,
```

```
product_material: 'Cotton',
product_color: 'indigo'
}
{
  _id: ObjectId('65e02797b390580f7cc402d9'),
  id: '5',
  product_name: 'Sleek Cotton Chair',
  product_price: 33,
  product_material: 'Fresh',
  product_color: 'black'
}
{
  _id: ObjectId('65e02797b390580f7cc402de'),
  id: '10',
  product_name: 'Generic Wooden Pizza',
  product_price: 84,
  product_material: 'Frozen',
  product_color: 'indigo'
}
{
  _id: ObjectId('65e02797b390580f7cc402dd'),
  id: '9',
  product_name: 'Awesome Wooden Ball',
  product_price: 28,
  product_material: 'Soft',
  product_color: 'azure'
}
{
```

```
_id: ObjectId('65e02797b390580f7cc402e1'),  
id: '13',  
product_name: 'Gorgeous Cotton Keyboard',  
product_price: 37,  
product_material: 'Concrete',  
product_color: 'sky blue'  
}
```

```
{  
_id: ObjectId('65e02797b390580f7cc402d7'),  
id: '3',  
product_name: 'Refined Steel Car',  
product_price: 690,  
product_material: 'Rubber',  
product_color: 'gold'  
}
```

```
{  
_id: ObjectId('65e02797b390580f7cc402e2'),  
id: '14',  
product_name: 'Incredible Steel Shirt',  
product_price: 54,  
product_material: 'Metal',  
product_color: 'white'  
}
```

```
{  
_id: ObjectId('65e02797b390580f7cc402e3'),  
id: '15',  
product_name: 'Ergonomic Cotton Hat',  
product_price: 43,
```

```
product_material: 'Rubber',
product_color: 'mint green'
}
{
  _id: ObjectId('65e02797b390580f7cc402e6'),
  id: '18',
  product_name: 'Licensed Plastic Bacon',
  product_price: 88,
  product_material: 'Steel',
  product_color: 'yellow'
}
{
  _id: ObjectId('65e02797b390580f7cc402e7'),
  id: '19',
  product_name: 'Intelligent Cotton Chips',
  product_price: 46,
  product_material: 'Soft',
  product_color: 'azure'
}
{
  _id: ObjectId('65e02797b390580f7cc402d5'),
  id: '1',
  product_name: 'Intelligent Fresh Chips',
  product_price: 655,
  product_material: 'Concrete',
  product_color: 'mint green'
}
{
```

```
_id: ObjectId('65e02797b390580f7cc402e9'),  
id: '21',  
product_name: 'Unbranded Granite Chicken',  
product_price: 90,  
product_material: 'Metal',  
product_color: 'gold'  
}
```

```
{  
_id: ObjectId('65e02797b390580f7cc402eb'),  
id: '23',  
product_name: 'Intelligent Steel Pizza',  
product_price: 95,  
product_material: 'Cotton',  
product_color: 'azure'  
}
```

```
{  
_id: ObjectId('65e02797b390580f7cc402dc'),  
id: '8',  
product_name: 'Incredible Steel Hat',  
product_price: 78,  
product_material: 'Rubber',  
product_color: 'violet'  
}
```

```
{  
_id: ObjectId('65e02797b390580f7cc402db'),  
id: '7',  
product_name: 'Practical Soft Shoes',  
product_price: 500,
```



```
product_material: 'Rubber',
product_color: 'pink'
}
{
  _id: ObjectId('65e02797b390580f7cc402e0'),
  id: '12',
  product_name: 'Unbranded Plastic Salad',
  product_price: 89,
  product_material: 'Wooden',
  product_color: 'pink'
}
{
  _id: ObjectId('65e02797b390580f7cc402ea'),
  id: '22',
  product_name: 'Ergonomic Soft Hat',
  product_price: 99,
  product_material: 'Rubber',
  product_color: 'black'
}
{
  _id: ObjectId('65e02797b390580f7cc402df'),
  id: '11',
  product_name: 'Unbranded Wooden Cheese',
  product_price: 26,
  product_material: 'Soft',
  product_color: 'black'
}
```

