

MongoDB Case Study-1

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Find all the information about each products

db.product.find()

```
> db.product.find()
< {
  _id: ObjectId('688094d065f85954740cd6fd'),
  id: '1',
  product_name: 'Intelligent Fresh Chips',
  product_price: 655,
  product_material: 'Concrete',
  product_color: 'mint green'
}
{
  _id: ObjectId('688094d065f85954740cd6fe'),
  id: '2',
  product_name: 'Practical Fresh Sausages',
  product_price: 911,
  product_material: 'Cotton',
  product_color: 'indigo'
}
{
  _id: ObjectId('688094d065f85954740cd6ff'),
  id: '3',
  product_name: 'Refined Steel Car',
  product_price: 690,
  product_material: 'Rubber',
  product_color: 'gold'
}
{
```

```
  _id: ObjectId('688094d065f85954740cd700'),
  id: '4',
  product_name: 'Gorgeous Plastic Pants',
  product_price: 492,
  product_material: 'Soft',
  product_color: 'plum'
}
{
  _id: ObjectId('688094d065f85954740cd701'),
  id: '5',
  product_name: 'Sleek Cotton Chair',
  product_price: 33,
  product_material: 'Fresh',
  product_color: 'black'
}
{
  _id: ObjectId('688094d065f85954740cd702'),
  id: '6',
  product_name: 'Awesome Wooden Towels',
  product_price: 474,
  product_material: 'Plastic',
  product_color: 'orange'
}
{
  _id: ObjectId('688094d065f85954740cd703'),
  id: '7',
  product_name: 'Practical Soft Shoes',
  product_price: 500,
  product_material: 'Rubber',
  product_color: 'pink'
}
```

Find the product price which are between 400 to 800

```
db.product.find({product_price:{$gt:400,$lt:800}},{})
```

```
> db.product.find({product_price:{$gt:400,$lt:800}},{})
< {
  _id: ObjectId('688094d065f85954740cd6fd'),
  id: '1',
  product_name: 'Intelligent Fresh Chips',
  product_price: 655,
  product_material: 'Concrete',
  product_color: 'mint green'
}
{
  _id: ObjectId('688094d065f85954740cd6ff'),
  id: '3',
  product_name: 'Refined Steel Car',
  product_price: 690,
  product_material: 'Rubber',
  product_color: 'gold'
}
{
  _id: ObjectId('688094d065f85954740cd700'),
  id: '4',
  product_name: 'Gorgeous Plastic Pants',
  product_price: 492,
  product_material: 'Soft',
  product_color: 'plum'
}
{
```

```
_id: ObjectId('688094d065f85954740cd702'),
id: '6',
product_name: 'Awesome Wooden Towels',
product_price: 474,
product_material: 'Plastic',
product_color: 'orange'
}
{
  _id: ObjectId('688094d065f85954740cd703'),
  id: '7',
  product_name: 'Practical Soft Shoes',
  product_price: 500,
  product_material: 'Rubber',
  product_color: 'pink'
}
mongodb > |
```

Find the product price which are not between 400 to 600

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

```
> db.product.find({product_price:{$not:{$gt:400,$lt:600}}},{})
< {
  _id: ObjectId('688094d065f85954740cd6fd'),
  id: '1',
  product_name: 'Intelligent Fresh Chips',
  product_price: 655,
  product_material: 'Concrete',
  product_color: 'mint green'
}
{
  _id: ObjectId('688094d065f85954740cd6fe'),
  id: '2',
  product_name: 'Practical Fresh Sausages',
  product_price: 911,
  product_material: 'Cotton',
  product_color: 'indigo'
}
{
  _id: ObjectId('688094d065f85954740cd6ff'),
  id: '3',
  product_name: 'Refined Steel Car',
  product_price: 690,
  product_material: 'Rubber',
  product_color: 'gold'
}
{
  _id: ObjectId('688094d065f85954740cd701'),
  id: '5',
  product_name: 'Sleek Cotton Chair',
  product_price: 33,
  product_material: 'Fresh',
```

List the four product which are grater than 500 in price

```
db.product.find({product_price:{$gt:500}},{}).limit(4)
```

```
> db.product.find({product_price:{$gt:500}},{}).limit(4)
< {
  _id: ObjectId('688094d065f85954740cd6fd'),
  id: '1',
  product_name: 'Intelligent Fresh Chips',
  product_price: 655,
  product_material: 'Concrete',
  product_color: 'mint green'
}
{
  _id: ObjectId('688094d065f85954740cd6fe'),
  id: '2',
  product_name: 'Practical Fresh Sausages',
  product_price: 911,
  product_material: 'Cotton',
  product_color: 'indigo'
}
{
  _id: ObjectId('688094d065f85954740cd6ff'),
  id: '3',
  product_name: 'Refined Steel Car',
  product_price: 690,
  product_material: 'Rubber',
  product_color: 'gold'
}
mongodb > |
```

Find the product name and product material of each products

db.product.find({}, {product_name:1,product_material:1,_id:0})

```
> db.product.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'
}
```

Find the product with a row id of 10

```
db.product.find({id:'10'},{})
```

```
> db.product.find({id:'10'},{})  
< {  
  _id: ObjectId('688094d065f85954740cd706'),  
  id: '10',  
  product_name: 'Generic Wooden Pizza',  
  product_price: 84,  
  product_material: 'Frozen',  
  product_color: 'indigo'  
}
```

```
mongodb > |
```

Find only the product name and product material

db.product.find({}, {product_name:1, product_material:1, _id:0})

```
> db.product.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'
}
```

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

```
db.product.find({product_material:'Soft'},{})
```

```
> db.product.find({product_material:'Soft'},{})
< {
  _id: ObjectId('688094d065f85954740cd700'),
  id: '4',
  product_name: 'Gorgeous Plastic Pants',
  product_price: 492,
  product_material: 'Soft',
  product_color: 'plum'
}
{
  _id: ObjectId('688094d065f85954740cd705'),
  id: '9',
  product_name: 'Awesome Wooden Ball',
  product_price: 28,
  product_material: 'Soft',
  product_color: 'azure'
}
{
  _id: ObjectId('688094d065f85954740cd707'),
  id: '11',
  product_name: 'Unbranded Wooden Cheese',
  product_price: 26,
  product_material: 'Soft',
  product_color: 'black'
}
{
  _id: ObjectId('688094d065f85954740cd70f'),
  id: '19',
  product_name: 'Intelligent Cotton Chips',
  product_price: 46,
  product_material: 'Soft',
```

Find products which contain product color indigo and product price 492.00

```
db.product.find({product_color:'indigo',product_price:492},{})
```

```
> db.product.find({product_color:'indigo',product_price:492},{})  
<  
mongodb > |
```
