

# MongoDB Day 1

---

## 1. Find all the information about each products

```
db.products.find()
```

```
> db.products.find()
< {
  _id: ObjectId('666bf2650643bc7ee7ada937'),
  id: '1',
  product_name: 'Intelligent Fresh Chips',
  product_price: 655,
  product_material: 'Concrete',
  product_color: 'mint green'
}
{
  _id: ObjectId('666bf2650643bc7ee7ada938'),
  id: '2',
  product_name: 'Practical Fresh Sausages',
  product_price: 911,
  product_material: 'Cotton',
  product_color: 'indigo'
}
{
  _id: ObjectId('666bf2650643bc7ee7ada939'),
  id: '3',
  product_name: 'Refined Steel Car',
  product_price: 698,
  product_material: 'Rubber',
  product_color: 'gold'
}
```

```
{
  _id: ObjectId('666bf2650643bc7ee7ada93a'),
  id: '4',
  product_name: 'Gorgeous Plastic Pants',
  product_price: 492,
  product_material: 'Soft',
  product_color: 'plum'
}
{
  _id: ObjectId('666bf2650643bc7ee7ada93b'),
  id: '5',
  product_name: 'Sleek Cotton Chair',
  product_price: 33,
  product_material: 'Fresh',
  product_color: 'black'
}
{
  _id: ObjectId('666bf2650643bc7ee7ada93c'),
  id: '6',
  product_name: 'Awesome Wooden Towels',
  product_price: 474,
  product_material: 'Plastic',
  product_color: 'orange'
}
{
  _id: ObjectId('666bf2650643bc7ee7ada93d'),
  id: '7',
  product_name: 'Practical Soft Shoes',
  product_price: 500,
  product_material: 'Rubber',
  product_color: 'pink'
}
```

```
    product_color: 'pink'
  }
  {
    _id: ObjectId('666bf2650643bc7ee7ada93e'),
    id: '8',
    product_name: 'Incredible Steel Hat',
    product_price: 78,
    product_material: 'Rubber',
    product_color: 'violet'
  }
  {
    _id: ObjectId('666bf2650643bc7ee7ada93f'),
    id: '9',
    product_name: 'Awesome Wooden Ball',
    product_price: 28,
    product_material: 'Soft',
    product_color: 'azure'
  }
  {
    _id: ObjectId('666bf2650643bc7ee7ada940'),
    id: '10',
    product_name: 'Generic Wooden Pizza',
    product_price: 84,
    product_material: 'Frozen',
    product_color: 'indigo'
  }
  {
    _id: ObjectId('666bf2650643bc7ee7ada941'),
    id: '11',
    product_name: 'Unbranded Wooden Cheese',
    product_price: 26,
```

```
    product_price: 26,
    product_material: 'Soft',
    product_color: 'black'
  }
  {
    _id: ObjectId('666bf2650643bc7ee7ada942'),
    id: '12',
    product_name: 'Unbranded Plastic Salad',
    product_price: 89,
    product_material: 'Wooden',
    product_color: 'pink'
  }
  {
    _id: ObjectId('666bf2650643bc7ee7ada943'),
    id: '13',
    product_name: 'Gorgeous Cotton Keyboard',
    product_price: 37,
    product_material: 'Concrete',
    product_color: 'sky blue'
  }
  {
    _id: ObjectId('666bf2650643bc7ee7ada944'),
    id: '14',
    product_name: 'Incredible Steel Shirt',
    product_price: 54,
    product_material: 'Metal',
    product_color: 'white'
  }
}
```

```
  id: '15',
  product_name: 'Ergonomic Cotton Mat',
  product_price: 43,
  product_material: 'Rubber',
  product_color: 'mint green'
}
{
  _id: ObjectId('666bf2650643bc7ee7ada946'),
  id: '16',
  product_name: 'Small Soft Chair',
  product_price: 47,
  product_material: 'Cotton',
  product_color: 'teal'
}
{
  _id: ObjectId('666bf2650643bc7ee7ada947'),
  id: '17',
  product_name: 'Incredible Metal Car',
  product_price: 36,
  product_material: 'Fresh',
  product_color: 'indigo'
}
{
  _id: ObjectId('666bf2650643bc7ee7ada948'),
  id: '18',
  product_name: 'Licensed Plastic Bacon',
  product_price: 88,
  product_material: 'Steel',
  product_color: 'yellow'
}
```

```
{
  _id: ObjectId('666bf2650643bc7ee7ada949'),
  id: '19',
  product_name: 'Intelligent Cotton Chips',
  product_price: 46,
  product_material: 'Soft',
  product_color: 'azure'
}
{
  _id: ObjectId('666bf2650643bc7ee7ada94a'),
  id: '20',
  product_name: 'Handcrafted Wooden Bacon',
  product_price: 36,
  product_material: 'Concrete',
  product_color: 'lime'
}
```

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

```
db.products.find({'product_price':{'$gte':400,'$lte':800}})
```

```
> db.products.find({'product_price':{'$gte':400,'$lte':800}})
< {
  _id: ObjectId('666bf2650643bc7ee7ada937'),
  id: '1',
  product_name: 'Intelligent Fresh Chips',
  product_price: 655,
  product_material: 'Concrete',
  product_color: 'mint green'
}
{
  _id: ObjectId('666bf2650643bc7ee7ada939'),
  id: '3',
  product_name: 'Refined Steel Car',
  product_price: 690,
  product_material: 'Rubber',
  product_color: 'gold'
}
{
  _id: ObjectId('666bf2650643bc7ee7ada93a'),
  id: '4',
  product_name: 'Gorgeous Plastic Pants',
  product_price: 492,
  product_material: 'Soft',
  product_color: 'plum'
}
```

```
{
  _id: ObjectId('666bf2650643bc7ee7ada93c'),
  id: '6',
  product_name: 'Awesome Wooden Towels',
  product_price: 474,
  product_material: 'Plastic',
  product_color: 'orange'
}
{
  _id: ObjectId('666bf2650643bc7ee7ada93d'),
  id: '7',
  product_name: 'Practical Soft Shoes',
  product_price: 500,
  product_material: 'Rubber',
  product_color: 'pink'
}
```

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

```
db.products.find({'product_price':{'$not':{'$gte':400,'$lte':600}}})
```

```
> db.products.find({'product_price':{'$not':{'$gte':400,'$lte':600}}})
< {
  _id: ObjectId('666bf2650643bc7ee7ada937'),
  id: '1',
  product_name: 'Intelligent Fresh Chips',
  product_price: 655,
  product_material: 'Concrete',
  product_color: 'mint green'
}
{
  _id: ObjectId('666bf2650643bc7ee7ada938'),
  id: '2',
  product_name: 'Practical Fresh Sausages',
  product_price: 911,
  product_material: 'Cotton',
  product_color: 'indigo'
}
{
  _id: ObjectId('666bf2650643bc7ee7ada939'),
  id: '3',
  product_name: 'Refined Steel Car',
  product_price: 690,
  product_material: 'Rubber',
  product_color: 'gold'
}
{
  _id: ObjectId('666bf2650643bc7ee7ada93b'),
  id: '5',
  product_name: 'Sleek Cotton Chair',
  product_price: 33,
  product_material: 'Fresh',
```

```
    id: '5',
    product_name: 'Sleek Cotton Chair',
    product_price: 33,
    product_material: 'Fresh',
    product_color: 'black'
  }
  {
    _id: ObjectId('666bf2650643bc7ee7ada93e'),
    id: '8',
    product_name: 'Incredible Steel Hat',
    product_price: 78,
    product_material: 'Rubber',
    product_color: 'violet'
  }
  {
    _id: ObjectId('666bf2650643bc7ee7ada93f'),
    id: '9',
    product_name: 'Awesome Wooden Ball',
    product_price: 28,
    product_material: 'Soft',
    product_color: 'azure'
  }
  {
    _id: ObjectId('666bf2650643bc7ee7ada940'),
    id: '10',
    product_name: 'Generic Wooden Pizza',
    product_price: 84,
    product_material: 'Frozen',
    product_color: 'indigo'
  }
  {
```

```
{
  _id: ObjectId('666bf2650643bc7ee7ada941'),
  id: '11',
  product_name: 'Unbranded Wooden Cheese',
  product_price: 26,
  product_material: 'Soft',
  product_color: 'black'
}
{
  _id: ObjectId('666bf2650643bc7ee7ada942'),
  id: '12',
  product_name: 'Unbranded Plastic Salad',
  product_price: 89,
  product_material: 'Wooden',
  product_color: 'pink'
}
{
  _id: ObjectId('666bf2650643bc7ee7ada943'),
  id: '13',
  product_name: 'Gorgeous Cotton Keyboard',
  product_price: 37,
  product_material: 'Concrete',
  product_color: 'sky blue'
}
{
  _id: ObjectId('666bf2650643bc7ee7ada944'),
  id: '14',
  product_name: 'Incredible Steel Shirt',
  product_price: 54,
```



```
    product_name: 'Incredible Steel Shirt',
    product_price: 54,
    product_material: 'Metal',
    product_color: 'white'
  }
  {
    _id: ObjectId('666bf2650643bc7ee7ada945'),
    id: '15',
    product_name: 'Ergonomic Cotton Hat',
    product_price: 43,
    product_material: 'Rubber',
    product_color: 'mint green'
  }
  {
    _id: ObjectId('666bf2650643bc7ee7ada946'),
    id: '16',
    product_name: 'Small Soft Chair',
    product_price: 47,
    product_material: 'Cotton',
    product_color: 'teal'
  }
  {
    _id: ObjectId('666bf2650643bc7ee7ada947'),
    id: '17',
    product_name: 'Incredible Metal Car',
    product_price: 36,
    product_material: 'Fresh',
    product_color: 'indigo'
  }
}
```

```
{
  _id: ObjectId('666bf2650643bc7ee7ada948'),
  id: '18',
  product_name: 'Licensed Plastic Bacon',
  product_price: 88,
  product_material: 'Steel',
  product_color: 'yellow'
}
{
  _id: ObjectId('666bf2650643bc7ee7ada949'),
  id: '19',
  product_name: 'Intelligent Cotton Chips',
  product_price: 46,
  product_material: 'Soft',
  product_color: 'azure'
}
{
  _id: ObjectId('666bf2650643bc7ee7ada94a'),
  id: '20',
  product_name: 'Handcrafted Wooden Bacon',
  product_price: 36,
  product_material: 'Concrete',
  product_color: 'lime'
}
{
  _id: ObjectId('666bf2650643bc7ee7ada94b'),
  id: '21',
  product_name: 'Unbranded Granite Chicken',
  product_price: 90,
  product_material: 'Metal',
  product_color: 'gold'
}
```

```
{
  _id: ObjectId('666bf2650643bc7ee7ada94b'),
  id: '21',
  product_name: 'Unbranded Granite Chicken',
  product_price: 90,
  product_material: 'Metal',
  product_color: 'gold'
}
{
  _id: ObjectId('666bf2650643bc7ee7ada94c'),
  id: '22',
  product_name: 'Ergonomic Soft Hat',
  product_price: 99,
  product_material: 'Rubber',
  product_color: 'black'
}
{
  _id: ObjectId('666bf2650643bc7ee7ada94d'),
  id: '23',
  product_name: 'Intelligent Steel Pizza',
  product_price: 95,
  product_material: 'Cotton',
  product_color: 'azure'
}
```

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

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

```
> db.products.find({product_price:{$gt:500}},{}).limit(4)
< {
  _id: ObjectId('666bf2650643bc7ee7ada937'),
  id: '1',
  product_name: 'Intelligent Fresh Chips',
  product_price: 655,
  product_material: 'Concrete',
  product_color: 'mint green'
}
{
  _id: ObjectId('666bf2650643bc7ee7ada938'),
  id: '2',
  product_name: 'Practical Fresh Sausages',
  product_price: 911,
  product_material: 'Cotton',
  product_color: 'indigo'
}
{
  _id: ObjectId('666bf2650643bc7ee7ada939'),
  id: '3',
  product_name: 'Refined Steel Car',
  product_price: 690,
  product_material: 'Rubber',
  product_color: 'gold'
}
```

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

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

```
> db.products.find({}, {product_name:1, product_material:1})
< {
  _id: ObjectId('666bf2650643bc7ee7ada937'),
  product_name: 'Intelligent Fresh Chips',
  product_material: 'Concrete'
}
{
  _id: ObjectId('666bf2650643bc7ee7ada938'),
  product_name: 'Practical Fresh Sausages',
  product_material: 'Cotton'
}
{
  _id: ObjectId('666bf2650643bc7ee7ada939'),
  product_name: 'Refined Steel Car',
  product_material: 'Rubber'
}
{
  _id: ObjectId('666bf2650643bc7ee7ada93a'),
  product_name: 'Gorgeous Plastic Pants',
  product_material: 'Soft'
}
{
  _id: ObjectId('666bf2650643bc7ee7ada93b'),
  product_name: 'Sleek Cotton Chair',
  product_material: 'Fresh'
}
{
  _id: ObjectId('666bf2650643bc7ee7ada93c'),
  product_name: 'Awesome Wooden Towels',
  product_material: 'Plastic'
}
```

```
{
  _id: ObjectId('666bf2650643bc7ee7ada93d'),
  product_name: 'Practical Soft Shoes',
  product_material: 'Rubber'
}
{
  _id: ObjectId('666bf2650643bc7ee7ada93e'),
  product_name: 'Incredible Steel Hat',
  product_material: 'Rubber'
}
{
  _id: ObjectId('666bf2650643bc7ee7ada93f'),
  product_name: 'Awesome Wooden Ball',
  product_material: 'Soft'
}
{
  _id: ObjectId('666bf2650643bc7ee7ada940'),
  product_name: 'Generic Wooden Pizza',
  product_material: 'Frozen'
}
{
  _id: ObjectId('666bf2650643bc7ee7ada941'),
  product_name: 'Unbranded Wooden Cheese',
  product_material: 'Soft'
}
{
  _id: ObjectId('666bf2650643bc7ee7ada942'),
  product_name: 'Unbranded Plastic Salad',
  product_material: 'Wooden'
}
```

```
{
  _id: ObjectId('666bf2650643bc7ee7ada943'),
  product_name: 'Gorgeous Cotton Keyboard',
  product_material: 'Concrete'
}
{
  _id: ObjectId('666bf2650643bc7ee7ada944'),
  product_name: 'Incredible Steel Shirt',
  product_material: 'Metal'
}
{
  _id: ObjectId('666bf2650643bc7ee7ada945'),
  product_name: 'Ergonomic Cotton Hat',
  product_material: 'Rubber'
}
{
  _id: ObjectId('666bf2650643bc7ee7ada946'),
  product_name: 'Small Soft Chair',
  product_material: 'Cotton'
}
{
  _id: ObjectId('666bf2650643bc7ee7ada947'),
  product_name: 'Incredible Metal Car',
  product_material: 'Fresh'
}
{
  _id: ObjectId('666bf2650643bc7ee7ada948'),
  product_name: 'Licensed Plastic Bacon',
  product_material: 'Steel'
```

```
{
  _id: ObjectId('666bf2650643bc7ee7ada949'),
  product_name: 'Intelligent Cotton Chips',
  product_material: 'Soft'
}
{
  _id: ObjectId('666bf2650643bc7ee7ada94a'),
  product_name: 'Handcrafted Wooden Bacon',
  product_material: 'Concrete'
}
```

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

```
db.products.find({id:"10"},{})
```

```
> db.products.find({id:"10"},{})
< {
  _id: ObjectId('666bf2650643bc7ee7ada940'),
  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.find({}, {_id: 0, product_name: 1, product_material: 1})
```

```
> db.products.find({}, {product_name:1, product_material:1})
< {
  _id: ObjectId('666bf2650643bc7ee7ada937'),
  product_name: 'Intelligent Fresh Chips',
  product_material: 'Concrete'
}
{
  _id: ObjectId('666bf2650643bc7ee7ada938'),
  product_name: 'Practical Fresh Sausages',
  product_material: 'Cotton'
}
{
  _id: ObjectId('666bf2650643bc7ee7ada939'),
  product_name: 'Refined Steel Car',
  product_material: 'Rubber'
}
{
  _id: ObjectId('666bf2650643bc7ee7ada93a'),
  product_name: 'Gorgeous Plastic Pants',
  product_material: 'Soft'
}
{
  _id: ObjectId('666bf2650643bc7ee7ada93b'),
  product_name: 'Sleek Cotton Chair',
  product_material: 'Fresh'
}
{
  _id: ObjectId('666bf2650643bc7ee7ada93c'),
  product_name: 'Awesome Wooden Towels',
  product_material: 'Plastic'
}
```

```
product_material: 'Plastic'
}
{
  _id: ObjectId('666bf2650643bc7ee7ada93d'),
  product_name: 'Practical Soft Shoes',
  product_material: 'Rubber'
}
{
  _id: ObjectId('666bf2650643bc7ee7ada93e'),
  product_name: 'Incredible Steel Hat',
  product_material: 'Rubber'
}
{
  _id: ObjectId('666bf2650643bc7ee7ada93f'),
  product_name: 'Awesome Wooden Ball',
  product_material: 'Soft'
}
{
  _id: ObjectId('666bf2650643bc7ee7ada940'),
  product_name: 'Generic Wooden Pizza',
  product_material: 'Frozen'
}
{
  _id: ObjectId('666bf2650643bc7ee7ada941'),
  product_name: 'Unbranded Wooden Cheese',
  product_material: 'Soft'
}
{
  _id: ObjectId('666bf2650643bc7ee7ada942'),
  product_name: 'Unbranded Plastic Salad',
  product_material: 'Wooden'
}
```



```
{
  _id: ObjectId('666bf2650643bc7ee7ada942'),
  product_name: 'Unbranded Plastic Salad',
  product_material: 'Wooden'
}
{
  _id: ObjectId('666bf2650643bc7ee7ada943'),
  product_name: 'Gorgeous Cotton Keyboard',
  product_material: 'Concrete'
}
{
  _id: ObjectId('666bf2650643bc7ee7ada944'),
  product_name: 'Incredible Steel Shirt',
  product_material: 'Metal'
}
{
  _id: ObjectId('666bf2650643bc7ee7ada945'),
  product_name: 'Ergonomic Cotton Hat',
  product_material: 'Rubber'
}
{
  _id: ObjectId('666bf2650643bc7ee7ada946'),
  product_name: 'Small Soft Chair',
  product_material: 'Cotton'
}
{
  _id: ObjectId('666bf2650643bc7ee7ada947'),
  product_name: 'Incredible Metal Car',
  product_material: 'Fresh'
}
```

```
{
  _id: ObjectId('666bf2650643bc7ee7ada948'),
  product_name: 'Licensed Plastic Bacon',
  product_material: 'Steel'
}
{
  _id: ObjectId('666bf2650643bc7ee7ada949'),
  product_name: 'Intelligent Cotton Chips',
  product_material: 'Soft'
}
{
  _id: ObjectId('666bf2650643bc7ee7ada94a'),
  product_name: 'Handcrafted Wooden Bacon',
  product_material: 'Concrete'
}
```

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

```
db.products.find({product_material: "Soft"})
```

```
> db.products.find({product_material: "Soft"})
< [
  {
    _id: ObjectId('666bf2650643bc7ee7ada93a'),
    id: '4',
    product_name: 'Gorgeous Plastic Pants',
    product_price: 492,
    product_material: 'Soft',
    product_color: 'plum'
  },
  {
    _id: ObjectId('666bf2650643bc7ee7ada93f'),
    id: '9',
    product_name: 'Awesome Wooden Ball',
    product_price: 28,
    product_material: 'Soft',
    product_color: 'azure'
  },
  {
    _id: ObjectId('666bf2650643bc7ee7ada941'),
    id: '11',
    product_name: 'Unbranded Wooden Cheese',
    product_price: 26,
    product_material: 'Soft',
    product_color: 'black'
  },
  {
    _id: ObjectId('666bf2650643bc7ee7ada949'),
    id: '19',
    product_name: 'Intelligent Cotton Chips',
    product_price: 46,
    product_material: 'Soft',
    product_color: 'indigo'
  }
]
```

```
{
  _id: ObjectId('666bf2650643bc7ee7ada949'),
  id: '19',
  product_name: 'Intelligent Cotton Chips',
  product_price: 46,
  product_material: 'Soft',
  product_color: 'indigo'
}
```

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

```
db.products.find({ product_color: "indigo", product_price: 492.00})
```

```
> db.products.find({ product_color: "indigo", product_price: 492.00})
<
Atlas atlas-olwcdm-shard-0 [primary] fsd59wdtdb>
```

10. Delete the products which product price value are 28

```
db.products.deleteOne({product_price:28})
```

```
> db.products.deleteOne({product_price:28})  
< {  
  acknowledged: true,  
  deletedCount: 1  
}
```