

# MongoDB Day 1 Task

1. Find all the information about each products.

```
> db.product.find()
< {
  _id: ObjectId('6634e53bed4e0a0dc1041ba1'),
  id: '1',
  product_name: 'Intelligent Fresh Chips',
  product_price: 655,
  product_material: 'Concrete',
  product_color: 'mint green'
}
{
  _id: ObjectId('6634e53bed4e0a0dc1041ba2'),
  id: '2',
  product_name: 'Practical Fresh Sausages',
  product_price: 911,
  product_material: 'Cotton',
  product_color: 'indigo'
}
{
  _id: ObjectId('6634e53bed4e0a0dc1041ba3'),
  id: '3',
  product_name: 'Refined Steel Car',
  product_price: 690,
  product_material: 'Rubber',
  product_color: 'gold'
}
{
```

```
{
  _id: ObjectId('6634e53bed4e0a0dc1041ba4'),
  id: '4',
  product_name: 'Gorgeous Plastic Pants',
  product_price: 492,
  product_material: 'Soft',
  product_color: 'plum'
}
{
  _id: ObjectId('6634e53bed4e0a0dc1041ba5'),
  id: '5',
  product_name: 'Sleek Cotton Chair',
  product_price: 33,
  product_material: 'Fresh',
  product_color: 'black'
}
{
  _id: ObjectId('6634e53bed4e0a0dc1041ba6'),
  id: '6',
  product_name: 'Awesome Wooden Towels',
  product_price: 474,
  product_material: 'Plastic',
  product_color: 'orange'
}
{
  _id: ObjectId('6634e53bed4e0a0dc1041ba7'),
  id: '7',
```

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

```
> db.product.find({product_price: {$gt:400,$lt:800}})
< {
  _id: ObjectId('6634e53bed4e0a0dc1041ba1'),
  id: '1',
  product_name: 'Intelligent Fresh Chips',
  product_price: 655,
  product_material: 'Concrete',
  product_color: 'mint green'
}
{
  _id: ObjectId('6634e53bed4e0a0dc1041ba3'),
  id: '3',
  product_name: 'Refined Steel Car',
  product_price: 690,
  product_material: 'Rubber',
  product_color: 'gold'
}
{
  _id: ObjectId('6634e53bed4e0a0dc1041ba4'),
  id: '4',
  product_name: 'Gorgeous Plastic Pants',
  product_price: 492,
  product_material: 'Soft',
  product_color: 'plum'
}
{
  _id: ObjectId('6634e53bed4e0a0dc1041ba6'),
  id: '6',
  product_name: 'Awesome Wooden Towels',
  product_price: 474,
  product_material: 'Plastic',
  product_color: 'orange'
}
{
  _id: ObjectId('6634e53bed4e0a0dc1041ba7'),
  id: '7',
  product_name: 'Practical Soft Shoes',
  product_price: 500,
  product_material: 'Rubber',
  product_color: 'pink'
}
task>
```

```
product_color: 'gold'
}
{
  _id: ObjectId('6634e53bed4e0a0dc1041ba4'),
  id: '4',
  product_name: 'Gorgeous Plastic Pants',
  product_price: 492,
  product_material: 'Soft',
  product_color: 'plum'
}
{
  _id: ObjectId('6634e53bed4e0a0dc1041ba6'),
  id: '6',
  product_name: 'Awesome Wooden Towels',
  product_price: 474,
  product_material: 'Plastic',
  product_color: 'orange'
}
{
  _id: ObjectId('6634e53bed4e0a0dc1041ba7'),
  id: '7',
  product_name: 'Practical Soft Shoes',
  product_price: 500,
  product_material: 'Rubber',
  product_color: 'pink'
}
task>
```

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

```
> db.product.find({product_price:{$not:{$gte:400,$lte:600}}})
< {
  _id: ObjectId('6634e53bed4e0a0dc1041ba1'),
  id: '1',
  product_name: 'Intelligent Fresh Chips',
  product_price: 655,
  product_material: 'Concrete',
  product_color: 'mint green'
}
{
  _id: ObjectId('6634e53bed4e0a0dc1041ba2'),
  id: '2',
  product_name: 'Practical Fresh Sausages',
  product_price: 911,
  product_material: 'Cotton',
  product_color: 'indigo'
}
{
  _id: ObjectId('6634e53bed4e0a0dc1041ba3'),
  id: '3',
  product_name: 'Refined Steel Car',
  product_price: 690,
  product_material: 'Rubber',
  product_color: 'gold'
}
```

```
product_color: 'gold'
}
{
  _id: ObjectId('6634e53bed4e0a0dc1041ba5'),
  id: '5',
  product_name: 'Sleek Cotton Chair',
  product_price: 33,
  product_material: 'Fresh',
  product_color: 'black'
}
{
  _id: ObjectId('6634e53bed4e0a0dc1041ba8'),
  id: '8',
  product_name: 'Incredible Steel Hat',
  product_price: 78,
  product_material: 'Rubber',
  product_color: 'violet'
}
{
  _id: ObjectId('6634e53bed4e0a0dc1041ba9'),
  id: '9',
  product_name: 'Awesome Wooden Ball',
  product_price: 28,
  product_material: 'Soft',
  product_color: 'azure'
}
```

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

```
> db.product.find({product_price:{$gt:500}}).limit(4)
< {
  _id: ObjectId('6634e53bed4e0a0dc1041ba1'),
  id: '1',
  product_name: 'Intelligent Fresh Chips',
  product_price: 655,
  product_material: 'Concrete',
  product_color: 'mint green'
}
{
  _id: ObjectId('6634e53bed4e0a0dc1041ba2'),
  id: '2',
  product_name: 'Practical Fresh Sausages',
  product_price: 911,
  product_material: 'Cotton',
  product_color: 'indigo'
}
{
  _id: ObjectId('6634e53bed4e0a0dc1041ba3'),
  id: '3',
  product_name: 'Refined Steel Car',
  product_price: 690,
  product_material: 'Rubber',
  product_color: 'gold'
}
task>
```

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

```
> db.product.find().projection({product_name:1,product_material:1})
< {
  _id: ObjectId('6634e53bed4e0a0dc1041ba1'),
  product_name: 'Intelligent Fresh Chips',
  product_material: 'Concrete'
}
{
  _id: ObjectId('6634e53bed4e0a0dc1041ba2'),
  product_name: 'Practical Fresh Sausages',
  product_material: 'Cotton'
}
{
  _id: ObjectId('6634e53bed4e0a0dc1041ba3'),
  product_name: 'Refined Steel Car',
  product_material: 'Rubber'
}
{
  _id: ObjectId('6634e53bed4e0a0dc1041ba4'),
  product_name: 'Gorgeous Plastic Pants',
  product_material: 'Soft'
}
{
  _id: ObjectId('6634e53bed4e0a0dc1041ba5'),
  product_name: 'Sleek Cotton Chair',
  product_material: 'Fresh'
}
```

```
product_material: 'Fresh'
}
{
  _id: ObjectId('6634e53bed4e0a0dc1041ba6'),
  product_name: 'Awesome Wooden Towels',
  product_material: 'Plastic'
}
{
  _id: ObjectId('6634e53bed4e0a0dc1041ba7'),
  product_name: 'Practical Soft Shoes',
  product_material: 'Rubber'
}
{
  _id: ObjectId('6634e53bed4e0a0dc1041ba8'),
  product_name: 'Incredible Steel Hat',
  product_material: 'Rubber'
}
{
  _id: ObjectId('6634e53bed4e0a0dc1041ba9'),
  product_name: 'Awesome Wooden Ball',
  product_material: 'Soft'
}
{
  _id: ObjectId('6634e53bed4e0a0dc1041baa'),
  product_name: 'Generic Wooden Pizza',
  product_material: 'Frozen'
}
```



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

```
> db.product.find({id:"10"})
< {
  _id: ObjectId('6634e53bed4e0a0dc1041baa'),
  id: '10',
  product_name: 'Generic Wooden Pizza',
  product_price: 84,
  product_material: 'Frozen',
  product_color: 'indigo'
}
task> |
```

7. Find only the product name and product material.

```
> db.product.find().projection({_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'
}
```

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

```
> db.product.find({product_material:"Soft"})
< {
  _id: ObjectId('6634e53bed4e0a0dc1041ba4'),
  id: '4',
  product_name: 'Gorgeous Plastic Pants',
  product_price: 492,
  product_material: 'Soft',
  product_color: 'plum'
}
{
  _id: ObjectId('6634e53bed4e0a0dc1041ba9'),
  id: '9',
  product_name: 'Awesome Wooden Ball',
  product_price: 28,
  product_material: 'Soft',
  product_color: 'azure'
}
{
  _id: ObjectId('6634e53bed4e0a0dc1041bab'),
  id: '11',
  product_name: 'Unbranded Wooden Cheese',
  product_price: 26,
  product_material: 'Soft',
  product_color: 'black'
}
```

```
product_color: 'black'
}
{
  _id: ObjectId('6634e53bed4e0a0dc1041bb3'),
  id: '19',
  product_name: 'Intelligent Cotton Chips',
  product_price: 46,
  product_material: 'Soft',
  product_color: 'azure'
}
task> |
```

9. Find products which contain product color indigo and product price 492.

```
> db.product.find({'$or': [{'product_color': 'indigo'}, {'product_price': 492}]})
< {
  _id: ObjectId('6634e53bed4e0a0dc1041ba2'),
  id: '2',
  product_name: 'Practical Fresh Sausages',
  product_price: 911,
  product_material: 'Cotton',
  product_color: 'indigo'
}
{
  _id: ObjectId('6634e53bed4e0a0dc1041ba4'),
  id: '4',
  product_name: 'Gorgeous Plastic Pants',
  product_price: 492,
  product_material: 'Soft',
  product_color: 'plum'
}
{
  _id: ObjectId('6634e53bed4e0a0dc1041baa'),
  id: '10',
  product_name: 'Generic Wooden Pizza',
  product_price: 84,
  product_material: 'Frozen',
  product_color: 'indigo'
}
```

```
product_color: 'indigo'
}
{
  _id: ObjectId('6634e53bed4e0a0dc1041bb1'),
  id: '17',
  product_name: 'Incredible Metal Car',
  product_price: 36,
  product_material: 'Fresh',
  product_color: 'indigo'
}
{
  _id: ObjectId('6634e53bed4e0a0dc1041bb9'),
  id: '25',
  product_name: 'Licensed Steel Car',
  product_price: 20,
  product_material: 'Cotton',
  product_color: 'indigo'
}
task>
```



10. Delete the products which product price value are 28.

```
> db.product.deleteMany({product_price:28})
< {
  acknowledged: true,
  deletedCount: 1
}
> db.product.find({product_price:28})
<
task> |
```