# CASE STUDY – 1 (Mongo DB)

## TRAINEE NAME: Swathi Baskaran

## 1. Find all the information about each product

```
> db.productsColl.find()
< {
    _id: ObjectId('6880b3c4a49e97704179f93b'),
    id: '1',
    product_name: 'Intelligent Fresh Chips',
    product_price: 655,
    product_material: 'Concrete',
    product_color: 'mint green'
  }
  {
    _id: ObjectId('6880b3c4a49e97704179f93c'),
    id: '2',
    product_name: 'Practical Fresh Sausages',
    product_price: 911,
    product_material: 'Cotton',
    product_color: 'indigo'
  }
  {
    _id: ObjectId('6880b3c4a49e97704179f93d'),
    id: '3',
    product_name: 'Refined Steel Car',
    product_price: 690,
    product_material: 'Rubber',
    product_color: 'gold'
  }
  {
    _id: ObjectId('6880b3c4a49e97704179f93e'),
    id: '4',
```

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

```
> db.productsColl.find({product_price: {$gte: 400, $lte: 800}})
< {
    _id: ObjectId('6880b3c4a49e97704179f93b'),
    id: '1',
    product_name: 'Intelligent Fresh Chips',
    product_price: 655,
    product_material: 'Concrete',
    product_color: 'mint green'
  }
  {
    _id: ObjectId('6880b3c4a49e97704179f93d'),
    id: '3',
    product_name: 'Refined Steel Car',
    product_price: 690,
    product_material: 'Rubber',
    product_color: 'gold'
  }
  {
    _id: ObjectId('6880b3c4a49e97704179f93e'),
    id: '4',
    product_name: 'Gorgeous Plastic Pants',
    product_price: 492,
    product_material: 'Soft',
    product_color: 'plum'
  }
  {
    _id: ObjectId('6880b3c4a49e97704179f940'),
    id: '6',
```

```
  {
    _id: ObjectId('6880b3c4a49e97704179f940'),
    id: '6',
    product_name: 'Awesome Wooden Towels',
    product_price: 474,
    product_material: 'Plastic',
    product_color: 'orange'
  }
  {
    _id: ObjectId('6880b3c4a49e97704179f941'),
    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.productsColl.find({product_price: {$not: {$gte: 400, $lte: 600}}}, {_id: 0})
< {
    id: '1',
    product_name: 'Intelligent Fresh Chips',
    product_price: 655,
    product_material: 'Concrete',
    product_color: 'mint green'
  }
  {
    id: '2',
    product_name: 'Practical Fresh Sausages',
    product_price: 911,
    product_material: 'Cotton',
    product_color: 'indigo'
  }
  {
    id: '3',
    product_name: 'Refined Steel Car',
    product_price: 690,
    product_material: 'Rubber',
    product_color: 'gold'
  }
  {
    id: '5',
    product_name: 'Sleek Cotton Chair',
    product_price: 33,
    product_material: 'Fresh',
    product_color: 'black'
```

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

```
> db.productsColl.find({product_price: {$gt: 500}}).limit(4)
< {
    _id: ObjectId('6880b3c4a49e97704179f93b'),
    id: '1',
    product_name: 'Intelligent Fresh Chips',
    product_price: 655,
    product_material: 'Concrete',
    product_color: 'mint green'
  }
  {
    _id: ObjectId('6880b3c4a49e97704179f93c'),
    id: '2',
    product_name: 'Practical Fresh Sausages',
    product_price: 911,
    product_material: 'Cotton',
    product_color: 'indigo'
  }
  {
    _id: ObjectId('6880b3c4a49e97704179f93d'),
    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.productsColl.find({}, {product_name: 1, product_material: 1})
< {
    _id: ObjectId('6880b3c4a49e97704179f93b'),
    product_name: 'Intelligent Fresh Chips',
    product_material: 'Concrete'
  }
  {
    _id: ObjectId('6880b3c4a49e97704179f93c'),
    product_name: 'Practical Fresh Sausages',
    product_material: 'Cotton'
  }
  {
    _id: ObjectId('6880b3c4a49e97704179f93d'),
    product_name: 'Refined Steel Car',
    product_material: 'Rubber'
  }
  {
    _id: ObjectId('6880b3c4a49e97704179f93e'),
    product_name: 'Gorgeous Plastic Pants',
    product_material: 'Soft'
  }
  {
    _id: ObjectId('6880b3c4a49e97704179f93f'),
    product_name: 'Sleek Cotton Chair',
    product_material: 'Fresh'
  }
  {
    _id: ObjectId('6880b3c4a49e97704179f940'),
```

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

```
> db.productsColl.find({id: "10"})
< {
    _id: ObjectId('6880b3c4a49e97704179f944'),
    id: '10',
    product_name: 'Generic Wooden Pizza',
    product_price: 84,
    product_material: 'Frozen',
    product_color: 'indigo'
  }
```

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

```
> db.productsColl.find({product_material: /Soft/})
< {
    _id: ObjectId('6880b3c4a49e97704179f93e'),
    id: '4',
    product_name: 'Gorgeous Plastic Pants',
    product_price: 492,
    product_material: 'Soft',
    product_color: 'plum'
  }
  {
    _id: ObjectId('6880b3c4a49e97704179f943'),
    id: '9',
    product_name: 'Awesome Wooden Ball',
    product_price: 28,
    product_material: 'Soft',
    product_color: 'azure'
  }
  {
    _id: ObjectId('6880b3c4a49e97704179f945'),
    id: '11',
    product_name: 'Unbranded Wooden Cheese',
    product_price: 26,
    product_material: 'Soft',
    product_color: 'black'
  }
  {
    _id: ObjectId('6880b3c4a49e97704179f94d'),
    id: '19',
    product_name: 'Intelligent Cotton Chips',
    product_price: 46,
    product_material: 'Soft',
    product_color: 'azure'
  }
```

8. **Find products which contain product colour indigo and product price 492.00**

```
> db.productsColl.find({product_color: "indigo", product_price: 492.0})
<
```