MONGODB CASE STUDY – 1

PRODUCT

DATA INSERTION:

```
db.users.insertMany([
```

"product color": "indigo" },

"product color": "yellow" },

```
{ "id": "1", "product name": "Intelligent Fresh Chips", "product price": 655.00, "product material":
"Concrete", "product color": "mint green" },
  { "id": "2", "product name": "Practical Fresh Sausages", "product price": 911.0, "product material":
"Cotton", "product color": "indigo" },
  { "id": "3", "product name": "Refined Steel Car", "product price": 690.00, "product material": "Rubber",
"product color": "gold" },
  { "id": "4", "product name": "Gorgeous Plastic Pants", "product_price": 492.00, "product_material": "Soft",
"product color": "plum" },
  { "id": "5", "product name": "Sleek Cotton Chair", "product price": 33.00, "product material": "Fresh",
"product color": "black" },
  { "id": "6", "product name": "Awesome Wooden Towels", "product price": 474.00, "product material":
"Plastic", "product color": "orange" },
  { "id": "7", "product name": "Practical Soft Shoes", "product price": 500.00, "product material": "Rubber",
"product color": "pink" },
  { "id": "8", "product name": "Incredible Steel Hat", "product price": 78.00, "product material": "Rubber",
"product color": "violet" },
  { "id": "9", "product name": "Awesome Wooden Ball", "product price": 28.00, "product material": "Soft",
"product color": "azure" },
  { "id": "10", "product name": "Generic Wooden Pizza", "product price": 84.00, "product material":
"Frozen", "product color": "indigo" },
  { "id": "11", "product name": "Unbranded Wooden Cheese", "product price": 26.00, "product material":
"Soft", "product color": "black" },
  { "id": "12", "product name": "Unbranded Plastic Salad", "product price": 89.00, "product material":
"Wooden", "product color": "pink" },
  { "id": "13", "product name": "Gorgeous Cotton Keyboard", "product price": 37.00, "product material":
"Concrete", "product_color": "sky blue" },
  { "id": "14", "product name": "Incredible Steel Shirt", "product price": 54.00, "product material": "Metal",
"product color": "white" },
  { "id": "15", "product name": "Ergonomic Cotton Hat", "product price": 43.00, "product material":
"Rubber", "product color": "mint green" },
  { "id": "16", "product name": "Small Soft Chair", "product price": 47.00, "product material": "Cotton",
"product color": "teal" },
  { "id": "17", "product name": "Incredible Metal Car", "product price": 36.00, "product material": "Fresh",
```

{ "id": "18", "product_name": "Licensed Plastic Bacon", "product_price": 88.00, "product_material": "Steel",

```
{ "id": "19", "product_name": "Intelligent Cotton Chips", "product_price": 46.00, "product_material": "Soft", "product_color": "azure" },

{ "id": "20", "product_name": "Handcrafted Wooden Bacon", "product_price": 36.00, "product_material": "Concrete", "product_color": "lime" },

{ "id": "21", "product_name": "Unbranded Granite Chicken", "product_price": 90.00, "product_material": "Metal", "product_color": "gold" },

{ "id": "22", "product_name": "Ergonomic Soft Hat", "product_price": 99.00, "product_material": "Rubber", "product_color": "black" },

{ "id": "23", "product_name": "Intelligent Steel Pizza", "product_price": 95.00, "product_material": "Cotton", "product_color": "azure" },

{ "id": "24", "product_name": "Tasty Rubber Cheese", "product_price": 47.00, "product_material": "Frozen", "product_color": "orchid" },

{ "id": "25", "product_name": "Licensed Steel Car", "product_price": 20.00, "product_material": "Cotton", "product_color": "indigo" }

])
```

QUESTIONS:

1. Find all the information about each product

db.users.find().pretty()

```
> db.users.find().pretty()

{
    _id: ObjectId('687f8011196600f475c50afb'),
    id: '1',
    product_name: 'Intelligent Fresh Chips',
    product_price: 655,
    product_material: 'Concrete',
    product_color: 'mint green'
}

{
    _id: ObjectId('687f8011196600f475c50afc'),
    id: '2',
    product_name: 'Practical Fresh Sausages',
    product_price: 911,
    product_material: 'Cotton',
    product_color: 'indigo'
}

{
    _id: ObjectId('687f8011196600f475c50afd'),
    id: '3',
    product_name: 'Refined Steel Car',
    product_price: 690,
    product_material: 'Rubber',
    product_color: 'gold'
}
```

```
__id: ObjectId('687f8011196600f475c50afe'),
    id: '4',
    product_name: 'Gorgeous Plastic Pants',
    product_price: 492,
    product_material: 'Soft',
    product_color: 'plum'
}

{
    _id: ObjectId('687f8011196600f475c50aff'),
    id: '5',
    product_name: 'Sleek Cotton Chair',
    product_price: 33,
    product_material: 'Fresh',
    product_color: 'black'
}

{
    _id: ObjectId('687f8011196600f475c50b00'),
    id: '6',
    product_name: 'Awesome Wooden Towels',
    product_price: 474,
    product_material: 'Plastic',
    product_color: 'orange'
}

{
    _id: ObjectId('687f8011196600f475c50b01'),
    id: '7',
    product_name: 'Practical Soft Shoes',
    product_price: 500,
    product_material: 'Rubber',
    product_color: 'pink'
```

```
[
    _id: ObjectId('687f8011196600f475c50b02'),
    id: '8',
    product_name: 'Incredible Steel Hat',
    product_price: 78,
    product_material: 'Rubber',
    product_color: 'violet'
]
[
    _id: ObjectId('687f8011196600f475c50b03'),
    id: '9',
    product_name: 'Awesome Wooden Ball',
    product_price: 28,
    product_material: 'Soft',
    product_color: 'azure'
]
[
    _id: ObjectId('687f8011196600f475c50b04'),
    id: '10',
    product_name: 'Generic Wooden Pizza',
    product_material: 'Frozen',
    product_color: 'indigo'
]
[
    _id: ObjectId('687f8011196600f475c50b05'),
    id: '11',
    product_name: 'Unbranded Wooden Cheese',
    product_price: 26,
    product_material: 'Soft',
    product_color: 'black'
```

```
"id: ObjectId('687f8011196600f475c50b07'),
    id: '13',
    product_name: 'Gorgeous Cotton Keyboard',
    product_price: 37,
    product_material: 'Concrete',
    product_color: 'sky blue'

{
        id: ObjectId('687f8011196600f475c50b08'),
        id: '14',
        product_name: 'Incredible Steel Shirt',
        product_price: 54,
        product_material: 'Metal',
        product_color: 'white'
}

{
        id: ObjectId('687f8011196600f475c50b09'),
        id: '15',
        product_name: 'Ergonomic Cotton Hat',
        product_price: 43,
        product_material: 'Rubber',
        product_color: 'mint green'
}

{
        id: ObjectId('687f8011196600f475c50b0a'),
        id: '16',
        product_name: 'Small Soft Chair',
        product_price: 47,
        product_material: 'Cotton',
        product_material: 'Cotton',
        product_material: 'Cotton',
        product_material: 'Cotton',
        product_material: 'Cotton',
        product_color: 'teal'
```

```
_id: ObjectId('687f8011196600f475c50b0b'),
id: '17',
product_name: 'Incredible Metal Car',
product_price: 36,
product_material: 'Fresh',
product_color: 'indigo'
}

{
    id: ObjectId('687f8011196600f475c50b0c'),
    id: '18',
    product_name: 'Licensed Plastic Bacon',
    product_price: 88,
    product_material: 'Steel',
    product_color: 'yellow'
}

{
    id: ObjectId('687f8011196600f475c50b0d'),
    id: '19',
    product_name: 'Intelligent Cotton Chips',
    product_name: 'Soft',
    product_color: 'azure'
}

{
    id: ObjectId('687f8011196600f475c50b0e'),
    id: '20',
    product_name: 'Handcrafted Wooden Bacon',
    product_name: 'Handcrafted Wooden Bacon',
    product_name: 'Intelligent Cotton Chips',
    id: '20',
    product_name: 'Handcrafted Wooden Bacon',
    product_name: 'Intelligent Cotton',
    product_name: 'Intelligent Cotton',
    product_name: 'Handcrafted Wooden Bacon',
    product_name: 'Intelligent Cotton',
    product_name: 'Intelligent Cotton',
    product_name: 'Handcrafted Wooden Bacon',
    product_name: 'Intelligent Cotton',
    product_name: 'Intelligent Cotton',
    id: '20',
    product_name: 'Handcrafted Wooden Bacon',
    product_color: 'lime'
```

2.Find products with price between 400 and 800

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

```
product_name: 'Awesome Wooden Towels',
  product_price: 474,
  product_material: 'Plastic',
  product_color: 'orange'
}
{
  _id: ObjectId('687f8011196600f475c50b01'),
  id: '7',
  product_name: 'Practical Soft Shoes',
  product_price: 500,
  product_material: 'Rubber',
  product_color: 'pink'
}
```

3.Find products with price NOT between 400 and 600

```
product_name: 'Steek Cotton Chair',
product_material: 'Fresh',
product_color: 'black'

{
    _id: ObjectId('SS7fSS1119SSSSF475CSSSSS'),
    id: '8',
    product_price: 78,
    product_material: 'Rubber',
    product_color: 'violet'
}

{
    _id: ObjectId('SS7fSS1119SSSSF475CSSSS'),
    id: '9',
    product_name: 'Awesome Wooden Ball',
    product_price: 28,
    product_price: 28,
    product_color: 'szure'
}

{
    _id: ObjectId('SS7fSS1119SSSSF475CSSSSSS'),
    id: '9',
    product_price: 84,
    product_name: 'Generic Wooden Pizza',
    product_material: 'Frozen',
    product_material: 'Frozen',
    product_color: 'indigo'
}

(
```

```
_id: ObjectId('687f8011196600f475c50b05'),
    id: 'll',
    product_name: 'Unbranded Wooden Cheese',
    product_price: 26,
    product_material: 'Soft',
    product_color: 'black'

{
        id: ObjectId('687f8011196600f475c50b06'),
        id: 'l2',
        product_name: 'Unbranded Plastic Salad',
        product_name: 'Unbranded Plastic Salad',
        product_price: 89,
        product_material: 'Wooden',
        product_color: 'pink'

{
        id: ObjectId('687f8011196600f475c50b07'),
        id: 'l3',
        product_name: 'Gorgeous Cotton Keyboard',
        product_name: 'Gorgeous Cotton Keyboard',
        product_naterial: 'Concrete',
        product_color: 'sky blue'

}

id: ObjectId('687f8011196600f475c50b08'),
        id: 'l4',
        product_name: 'Incredible Steel Shirt',
        product_naterial: 'Metal',
        product_color: 'white'
```

```
_id: ObjectId('687f8011196600f475c50b09'),
id: '15',
    product_name: 'Ergonomic Cotton Hat',
    product_price: 43,
    product_material: 'Rubber',
    product_color: 'mint green'
}

{
    id: ObjectId('687f8011196600f475c50b0a'),
    id: '16',
    product_name: 'Small Soft Chair',
    product_price: 47,
    product_price: 47,
    product_color: 'teal'
}

{
    id: ObjectId('687f8011196600f475c50b0b'),
    id: '17',
    product_name: 'Incredible Metal Car',
    product_price: 36,
    product_material: 'Fresh',
    product_color: 'indigo'
}

{
    id: ObjectId('687f8011196600f475c50b0c'),
    id: '18',
    product_name: 'Licensed Plastic Bacon',
    product_material: 'Steel',
    product_material: 'Steel',
    product_material: 'Steel',
    product_material: 'yellow'
}
```

```
_id: ObjectId('687f8011196600f475c50b0d'),
    id: '19',
    product_name: 'Intelligent Cotton Chips',
    product_price: 46,
    product_material: 'Soft',
    product_color: 'azure'
}

{
    _id: ObjectId('687f8011196600f475c50b0e'),
    id: '20',
    product_name: 'Handcrafted Wooden Bacon',
    product_price: 36,
    product_material: 'Concrete',
    product_color: 'lime'
}

{
    _id: ObjectId('687f8011196600f475c50b0f'),
    id: '21',
    product_name: 'Unbranded Granite Chicken',
    product_price: 90,
    product_material: 'Metal',
    product_color: 'gold'
}

{
    _id: ObjectId('687f8011196600f475c50b10'),
    id: '22',
    product_name: 'Ergonomic Soft Hat',
    product_price: 99,
    product_material: 'Rubber',
    product_material: 'Rubber',
    product_color: 'black'
```

```
{
    _id: ObjectId('687f8011196600f475c50b11'),
    id: '23',
    product_name: 'Intelligent Steel Pizza',
    product_price: 95,
    product_material: 'Cotton',
    product_color: 'azure'
}
```

4.List 4 products with price greater than 500

```
db.users.find(
    { product_price: { $gt: 500 } }
).limit(4).pretty()
```

5. Find product name and product material only

db.users.find({}, { id: 0, product name: 1, product material: 1 }).pretty()

```
> db.users.find(
   (),
   ( _id: 0, product_name: 1, product_material: 1 )
   ).pretty()

    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: 'Practical Soft Shoes',
    product_material: 'Rubber'
```

```
product_name: 'Incredible Steel Hat',
product_material: 'Rubber'
}

{
  product_name: 'Awesome Wooden Ball',
  product_material: 'Soft'
}

{
  product_name: 'Generic Wooden Pizza',
  product_material: 'Frozen'
}

{
  product_name: 'Unbranded Wooden Cheese',
  product_material: 'Soft'
}

{
  product_material: 'Wooden'
}

{
  product_name: 'Gorgeous Cotton Keyboard',
  product_material: 'Concrete'
}

{
  product_name: 'Incredible Steel Shirt',
  product_material: 'Wetal'
}

{
  product_name: 'Ergonomic Cotton Hat',
  product_material: 'Rubber'
}
```

```
product_name: 'Small Soft Chair',
    product_material: 'Cotton'

{
    product_name: 'Incredible Metal Car',
    product_material: 'Fresh'
}

{
    product_name: 'Licensed Plastic Bacon',
    product_material: 'Steel'
}

product_name: 'Intelligent Cotton Chips',
    product_material: 'Soft'
}

product_name: 'Handcrafted Wooden Bacon',
    product_material: 'Concrete'
}
```