## **MongoDB**

## **Case Study – 1(Products)**

## Code:

```
db.products.insertMany([
 {
 "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": 911.00,
 "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",
"product_color": "indigo"
},
 "id": "18",
 "product_name": "Licensed Plastic Bacon",
 "product price": 88.00,
"product_material": "Steel",
"product_color": "yellow"
},
 "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 products db.products.find().pretty()

```
test> db.products.find().pretty()
    _id: ObjectId('688108df61c0fff2f9eec4c2'),
    id: '1',
    product_name: 'Intelligent Fresh Chips',
    product_price: 655,
    product_material: 'Concrete',
    product_color: 'mint green'
    _id: ObjectId('688108df61c0fff2f9eec4c3'),
    product_name: 'Practical Fresh Sausages',
    product_price: 911,
product_material: 'Cotton',
    product_color: 'indigo'
  },
{
    _id: ObjectId('688108df61c0fff2f9eec4c4'),
    id: '3',
    product_name: 'Refined Steel Car',
    product_price: 690,
product_material: 'Rubber',
    product_color: 'gold'
    _id: ObjectId('688108df61c0fff2f9eec4c5'),
    id: '4',
    product_name: 'Gorgeous Plastic Pants',
    product_price: 492,
    product_material: 'Soft',
    product_color: 'plum'
    _id: ObjectId('688108df61c0fff2f9eec4c6'),
    id: '5',
    product_name: 'Sleek Cotton Chair',
    product_price: 33,
    product_material: 'Fresh',
    product_color: 'black'
    _id: ObjectId('688108df61c0fff2f9eec4c7'),
    id: '6',
    product_name: 'Awesome Wooden Towels',
    product_price: 474
    product_material: 'Plastic',
    product_color: 'orange'
```

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

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

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

```
product_price: { $gte: 400, $lte: 800 }
... }).pretty()
Ë...
     _id: ObjectId('688108df61c0fff2f9eec4c2'),
    id:
    product_name: 'Intelligent Fresh Chips',
    product_price: 655,
product_material: 'Concrete',
    product_color: 'mint green'
    _id: ObjectId('688108df61c0fff2f9eec4c4'), id: '3',
    product_name: 'Refined Steel Car',
    product_price: 690,
product_material: 'Rubber',
    product_color: 'gold'
     _id: ObjectId('688108df61c0fff2f9eec4c5'),
    id: '4'
    product_name: 'Gorgeous Plastic Pants',
    product_price: 492,
product_material: 'Soft',
    product_color: 'plum'
     _id: ObjectId('688108df61c0fff2f9eec4c7'),
    id: '6',
    product_name: 'Awesome Wooden Towels',
    product_price: 474,
product_material: 'Plastic',
    product_color: 'orange'
     _id: ObjectId('688108df61c0fff2f9eec4c8'),
    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({

```
$or: [
  { product_price: { $lt: 400 } },
   { product_price: { $gt: 600 } }
}).pretty()
 test> db.products.find({
         $or: [
            { product_price: { $lt: 400 } },
{ product_price: { $gt: 600 } }
 ... }).pretty()
       _id: ObjectId('688108df61c0fff2f9eec4c2'),
      id:
      product_name: 'Intelligent Fresh Chips',
product_price: 655,
product_material: 'Concrete',
      product_color: 'mint green'
       id: ObjectId('688108df61c0fff2f9eec4c3'),
      id:
      product_name: 'Practical Fresh Sausages',
product_price: 911,
product_material: 'Cotton',
      product_color: 'indigo'
      _id: ObjectId('688108df61c0fff2f9eec4c4'), id: '3',
      product_name: 'Refined Steel Car',
      product_price: 690,
product_material: 'Rubber',
      product_color: 'gold'
       _id: ObjectId('688108df61c0fff2f9eec4c6'),
      id: '
      product_name: 'Sleek Cotton Chair',
      product_name: Steek Cotto
product_price: 33,
product_material: 'Fresh',
product_color: 'black'
      _id: ObjectId('688108df61c0fff2f9eec4c9'), id: '8',
      product_name: 'Incredible Steel Hat',
product_price: 78,
product_material: 'Rubber',
      product_color: 'violet'
       id: ObjectId('688108df61c0fff2f9eec4ca'),
      product_name: 'Awesome Wooden Ball',
product_price: 28,
product_material: 'Soft',
      product_color: 'azure'
       _id: ObjectId('688108df61c0fff2f9eec4cb'),
      product_name: 'Generic Wooden Pizza',
      product_price: 84,
product_material: 'Frozen',
      product_color: 'indigo'
```

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

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

5. Find the product with a row id of 10 db.products.find({ id: "10" }).pretty()