

Task - MongoDB Day 1

1. Find all the information about each products.
2. Find the product price which are between 400 to 800
3. Find the product price which are not between 400 to 600
4. List the four product which are greater than 500 in price.
5. Find the product name and product material of each products.
6. Find the product with a row id of 10
7. Find only the product name and product material
8. Find all products which contain the value of soft in product material
9. Find products which contain product color indigo and product price 492.00
10. Delete the products which product price value are 28

1) Find all the information about each products

Query:

db.products.find({})

```
> db.products.find({})
< {
  _id: ObjectId('66eb3b8997557a141ae17a62'),
  id: '1',
  product_name: 'Intelligent Fresh Chips',
  product_price: 655,
  product_material: 'Concrete',
  product_color: 'mint green'
}
{
  _id: ObjectId('66eb3b8997557a141ae17a63'),
  id: '2',
  product_name: 'Practical Fresh Sausages',
  product_price: 911,
  product_material: 'Cotton',
  product_color: 'indigo'
}
{
  _id: ObjectId('66eb3b8997557a141ae17a64'),
  id: '3',
  product_name: 'Refined Steel Car',
  product_price: 690,
  product_material: 'Rubber',
  product_color: 'gold'
}
{
  _id: ObjectId('66eb3b8997557a141ae17a65'),
  id: '4',
  product_name: 'Gorgeous Plastic Pants',
  product_price: 492,
  product_material: 'Soft',
  product_color: 'plum'
}
{
  _id: ObjectId('66eb3b8997557a141ae17a66'),
  id: '5',
  product_name: 'Sleek Cotton Chair',
```

```
    id: '7',
    product_name: 'Practical Soft Shoes',
    product_price: 500,
    product_material: 'Rubber',
    product_color: 'pink'
  }
  {
    _id: ObjectId('66eb3b8997557a141ae17a69'),
    id: '8',
    product_name: 'Incredible Steel Hat',
    product_price: 78,
    product_material: 'Rubber',
    product_color: 'violet'
  }
  {
    _id: ObjectId('66eb3b8997557a141ae17a6a'),
    id: '9',
    product_name: 'Awesome Wooden Ball',
    product_price: 28,
    product_material: 'Soft',
    product_color: 'azure'
  }
  {
    _id: ObjectId('66eb3b8997557a141ae17a6b'),
    id: '10',
    product_name: 'Generic Wooden Pizza',
    product_price: 84,
    product_material: 'Frozen',
    product_color: 'indigo'
  }
  {
    _id: ObjectId('66eb3b8997557a141ae17a6c'),
    id: '11',
    product_name: 'Unbranded Wooden Cheese',
    product_price: 26,
    product_material: 'Soft',
    product_color: 'black'
  }
}
```

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

Ans: product price in the range [400 - 800] including 400 and 800

Query:

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

```
> db.products.find({ product_price: { $gte: 400, $lte: 800 } })
< {
  _id: ObjectId('66eb3b8997557a141ae17a62'),
  id: '1',
  product_name: 'Intelligent Fresh Chips',
  product_price: 655,
  product_material: 'Concrete',
  product_color: 'mint green'
}
{
  _id: ObjectId('66eb3b8997557a141ae17a64'),
  id: '3',
  product_name: 'Refined Steel Car',
  product_price: 690,
  product_material: 'Rubber',
  product_color: 'gold'
}
{
  _id: ObjectId('66eb3b8997557a141ae17a65'),
  id: '4',
  product_name: 'Gorgeous Plastic Pants',
  product_price: 492,
  product_material: 'Soft',
  product_color: 'plum'
}
{
  _id: ObjectId('66eb3b8997557a141ae17a67'),
  id: '6',
  product_name: 'Awesome Wooden Towels',
  product_price: 474,
  product_material: 'Plastic',
  product_color: 'orange'
}
{
```

```
}  
{  
  _id: ObjectId('66eb3b8997557a141ae17a68'),  
  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

Ans : product price outside the range [400 - 600]

Query:

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

```
> db.products.find({ product_price: { $not: { $gte: 400, $lte: 600 } } })
< {
  _id: ObjectId('66eb3b8997557a141ae17a62'),
  id: '1',
  product_name: 'Intelligent Fresh Chips',
  product_price: 655,
  product_material: 'Concrete',
  product_color: 'mint green'
}
{
  _id: ObjectId('66eb3b8997557a141ae17a63'),
  id: '2',
  product_name: 'Practical Fresh Sausages',
  product_price: 911,
  product_material: 'Cotton',
  product_color: 'indigo'
}
{
  _id: ObjectId('66eb3b8997557a141ae17a64'),
  id: '3',
  product_name: 'Refined Steel Car',
  product_price: 690,
  product_material: 'Rubber',
  product_color: 'gold'
}
{
  _id: ObjectId('66eb3b8997557a141ae17a66'),
  id: '5',
  product_name: 'Sleek Cotton Chair',
  product_price: 33,
  product_material: 'Fresh',
  product_color: 'black'
}
{
  _id: ObjectId('66eb3b8997557a141ae17a69'),
  id: '8',
  product_name: 'Incredible Steel Hat',
  product_price: 70
}
```

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

Query:

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

```
> db.products.find({ product_price: { $gt: 500 } }).limit(4)
< {
  _id: ObjectId('66eb3b8997557a141ae17a62'),
  id: '1',
  product_name: 'Intelligent Fresh Chips',
  product_price: 655,
  product_material: 'Concrete',
  product_color: 'mint green'
}
{
  _id: ObjectId('66eb3b8997557a141ae17a63'),
  id: '2',
  product_name: 'Practical Fresh Sausages',
  product_price: 911,
  product_material: 'Cotton',
  product_color: 'indigo'
}
{
  _id: ObjectId('66eb3b8997557a141ae17a64'),
  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 products

Query:

```
db.products.find({}, { product_name: 1, product_material: 1, _id: 0 })
```

```
> db.products.find({}, { product_name: 1, product_material: 1, _id: 0 })
< {
  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'
}
{
  product_name: 'Practical Soft Shoes',
  product_material: 'Rubber'
}
{
  product_name: 'Incredible Steel Hat',
  product_material: 'Rubber'
}
{
  product_name: 'Awesome Wooden Ball',
  product_material: 'Soft'
}
{
```


6) Find the product with a row id of 10

Query :

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

```
> db.products.find({ id: "10" })
< {
  _id: ObjectId('66eb3b8997557a141ae17a6b'),
  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

Query:

question is same as question 5.

`db.products.find({}, { product_name: 1, product_material: 1, _id: 0 })`

```
> db.products.find({}, { product_name: 1, product_material: 1, _id: 0 })
< {
  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'
}
```

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

Query:

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

```
> db.products.find({ product_material: "Soft" })
< {
  _id: ObjectId('66eb3b8997557a141ae17a65'),
  id: '4',
  product_name: 'Gorgeous Plastic Pants',
  product_price: 492,
  product_material: 'Soft',
  product_color: 'plum'
}
{
  _id: ObjectId('66eb3b8997557a141ae17a6a'),
  id: '9',
  product_name: 'Awesome Wooden Ball',
  product_price: 28,
  product_material: 'Soft',
  product_color: 'azure'
}
{
  _id: ObjectId('66eb3b8997557a141ae17a6c'),
  id: '11',
  product_name: 'Unbranded Wooden Cheese',
  product_price: 26,
  product_material: 'Soft',
  product_color: 'black'
}
{
  _id: ObjectId('66eb3b8997557a141ae17a74'),
  id: '19',
  product_name: 'Intelligent Cotton Chips',
  product_price: 46,
  product_material: 'Soft',
  product_color: 'azure'
}
```

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

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

```
> db.products.find({ product_color: "indigo", product_price: 492.00 })
<
Atlas atlas-z7svm-v-shard-0 [primary] fsd59wdtdb>
```

```
> db.products.find({ product_color: "indigo", })
< {
  _id: ObjectId('66eb3b8997557a141ae17a63'),
  id: '2',
  product_name: 'Practical Fresh Sausages',
  product_price: 911,
  product_material: 'Cotton',
  product_color: 'indigo'
}
{
  _id: ObjectId('66eb3b8997557a141ae17a6b'),
  id: '10',
  product_name: 'Generic Wooden Pizza',
  product_price: 84,
  product_material: 'Frozen',
  product_color: 'indigo'
}
{
  _id: ObjectId('66eb3b8997557a141ae17a72'),
  id: '17',
  product_name: 'Incredible Metal Car',
  product_price: 36,
  product_material: 'Fresh',
  product_color: 'indigo'
}
{
  _id: ObjectId('66eb3b8997557a141ae17a7e'),
```

10) Delete the products which product price value are 28

Query: db.products.deleteMany({ product_price: 28 })

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