

## MongoDB Queries Task

1. Find all the information about each product

```
>_MONGOSH
> db.products.find().toArray()
< [
  {
    _id: ObjectId('669df70c9c9011201f09a2cf'),
    id: '1',
    product_name: 'Intelligent Fresh Chips',
    product_price: 655,
    product_material: 'Concrete',
    product_color: 'mint green'
  },
  {
    _id: ObjectId('669df70c9c9011201f09a2d0'),
    id: '2',
    product_name: 'Practical Fresh Sausages',
    product_price: 911,
    product_material: 'Cotton',
    product_color: 'indigo'
  },
  {
    _id: ObjectId('669df70c9c9011201f09a2d1'),
    id: '3',
    product_name: 'Refined Steel Car',
    product_price: 690,
    product_material: 'Rubber',
    product_color: 'gold'
  }
]
```

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

```
>_MONGOSH
> db.products.find({product_price: {$gt: 400, $lt: 800}})
< {
  _id: ObjectId('669df70c9c9011201f09a2cf'),
  id: '1',
  product_name: 'Intelligent Fresh Chips',
  product_price: 655,
  product_material: 'Concrete',
  product_color: 'mint green'
}
{
  _id: ObjectId('669df70c9c9011201f09a2d1'),
  id: '3',
  product_name: 'Refined Steel Car',
  product_price: 690,
  product_material: 'Rubber',
  product_color: 'gold'
}
{
  _id: ObjectId('669df70c9c9011201f09a2d2'),
  id: '4',
  product_name: 'Gorgeous Plastic Pants',
  product_price: 492,
  product_material: 'Soft',
  product_color: 'plum'
}
```

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

```
>_MONGOSH
```

```
> db.products.find({ $nor: [{product_price: {$gt: 400, $lt: 600}}]})
```

```
< {
  _id: ObjectId('669df70c9c9011201f09a2cf'),
  id: '1',
  product_name: 'Intelligent Fresh Chips',
  product_price: 655,
  product_material: 'Concrete',
  product_color: 'mint green'
}
{
  _id: ObjectId('669df70c9c9011201f09a2d0'),
  id: '2',
  product_name: 'Practical Fresh Sausages',
  product_price: 911,
  product_material: 'Cotton',
  product_color: 'indigo'
}
{
  _id: ObjectId('669df70c9c9011201f09a2d1'),
  id: '3',
  product_name: 'Refined Steel Car',
  product_price: 690,
  product_material: 'Rubber',
  product_color: 'gold'
}
```

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

```
>_MONGOSH
> db.products.find({product_price: {$gt: 500}}).limit(4)
< {
  _id: ObjectId('669df70c9c9011201f09a2cf'),
  id: '1',
  product_name: 'Intelligent Fresh Chips',
  product_price: 655,
  product_material: 'Concrete',
  product_color: 'mint green'
}
{
  _id: ObjectId('669df70c9c9011201f09a2d0'),
  id: '2',
  product_name: 'Practical Fresh Sausages',
  product_price: 911,
  product_material: 'Cotton',
  product_color: 'indigo'
}
{
  _id: ObjectId('669df70c9c9011201f09a2d1'),
  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

>\_MONGOSH

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

```
< {
  _id: ObjectId('669df70c9c9011201f09a2cf'),
  product_name: 'Intelligent Fresh Chips',
  product_material: 'Concrete'
}
{
  _id: ObjectId('669df70c9c9011201f09a2d0'),
  product_name: 'Practical Fresh Sausages',
  product_material: 'Cotton'
}
{
  _id: ObjectId('669df70c9c9011201f09a2d1'),
  product_name: 'Refined Steel Car',
  product_material: 'Rubber'
}
{
  _id: ObjectId('669df70c9c9011201f09a2d2'),
  product_name: 'Gorgeous Plastic Pants',
  product_material: 'Soft'
}
{
  _id: ObjectId('669df70c9c9011201f09a2d3'),
  product_name: 'Sleek Cotton Chair',
  product_material: 'Fresh'
}
```

6. Find the product with a row id of 10

```
>_MONGOSH
```

```
> db.products.findOne({id: "10"})
```

```
< {
```

```
  _id: ObjectId('669df70c9c9011201f09a2d8'),
```

```
  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

>\_MONGOSH

```
> db.products.find({}, {_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'  
}  
{
```

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

>\_MONGOSH

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

```
< {
```

```
  _id: ObjectId('669df70c9c9011201f09a2d2'),
```

```
  id: '4',
```

```
  product_name: 'Gorgeous Plastic Pants',
```

```
  product_price: 492,
```

```
  product_material: 'Soft',
```

```
  product_color: 'plum'
```

```
}
```

```
{
```

```
  _id: ObjectId('669df70c9c9011201f09a2d7'),
```

```
  id: '9',
```

```
  product_name: 'Awesome Wooden Ball',
```

```
  product_price: 28,
```

```
  product_material: 'Soft',
```

```
  product_color: 'azure'
```

```
}
```

```
{
```

```
  _id: ObjectId('669df70c9c9011201f09a2d9'),
```

```
  id: '11',
```

```
  product_name: 'Unbranded Wooden Cheese',
```

```
  product_price: 26,
```



9. Find products which contain product colour indigo and product price 492.00

i. Both condition matches (no products)

```
> db.products.find( {$and: [{product_color: "indigo"}, {product_price: 492}]}).toArray()
< []
```

ii. Either one condition matches

```
>_MONGOSH
> db.products.find( {$or: [{product_color: "indigo"}, {product_price: 492}]}).toArray()
< [
  {
    _id: ObjectId('669df70c9c9011201f09a2d0'),
    id: '2',
    product_name: 'Practical Fresh Sausages',
    product_price: 911,
    product_material: 'Cotton',
    product_color: 'indigo'
  },
  {
    _id: ObjectId('669df70c9c9011201f09a2d2'),
    id: '4',
    product_name: 'Gorgeous Plastic Pants',
    product_price: 492,
    product_material: 'Soft',
    product_color: 'plum'
  },
]
```

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

- i. Only one product matches the price value 28 ( id: 9 )

```
> db.products.find({product_price: 28})
< {
  _id: ObjectId('669df70c9c9011201f09a2d7'),
  id: '9',
  product_name: 'Awesome Wooden Ball',
  product_price: 28,
  product_material: 'Soft',
  product_color: 'azure'
}
```

- ii. Deleted all the products which product price value matches 28

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