

MongoDB

For the following question write the corresponding MongoDB queries

1) Find all the information about each products:

Query: `db.products.find()`

```
>_MONGOOSH
> use MowriDB
< switched to db MowriDB
> db.products.find()
< [
  {
    _id: ObjectId('6618f36da89c9b87f222fcd0'),
    id: '1',
    product_name: 'Intelligent Fresh Chips',
    product_price: 655,
    product_material: 'Concrete',
    product_color: 'mint green'
  },
  {
    _id: ObjectId('6618f36da89c9b87f222fce2'),
    id: '5',
    product_name: 'Sleek Cotton Chair',
    product_price: 33,
    product_material: 'Fresh',
    product_color: 'black'
  },
  {
    _id: ObjectId('6618f36da89c9b87f222fce5'),
    id: '8',
    product_name: 'Incredible Steel Hat',
    product_price: 78,
    product_material: 'Rubber',
    product_color: 'violet'
  }
]
```

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

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

```
> db.products.find({product_price:{$gte:400,$lt:800}})
< [
  {
    _id: ObjectId('6618f36da89c9b87f222fcd0'),
    id: '1',
    product_name: 'Intelligent Fresh Chips',
    product_price: 655,
    product_material: 'Concrete',
    product_color: 'mint green'
  },
  {
    _id: ObjectId('6618f36da89c9b87f222fce0'),
    id: '3',
    product_name: 'Refined Steel Car',
    product_price: 690,
    product_material: 'Rubber',
    product_color: 'gold'
  },
  {
    _id: ObjectId('6618f36da89c9b87f222fce3'),
    id: '6',
    product_name: 'Awesome Wooden Towels',
    product_price: 474,
    product_material: 'Plastic',
    product_color: 'orange'
  }
]
```

```
{
  _id: ObjectId('6618f36da89c9b87f222fce3'),
  id: '6',
  product_name: 'Awesome Wooden Towels',
  product_price: 474,
  product_material: 'Plastic',
  product_color: 'orange'
}
{
  _id: ObjectId('6618f36da89c9b87f222fce4'),
  id: '7',
  product_name: 'Practical Soft Shoes',
  product_price: 500,
  product_material: 'Rubber',
  product_color: 'pink'
}
{
  _id: ObjectId('6618f36da89c9b87f222fce1'),
  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

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

```
> db.products.find({product_price:{$not:{$gte:400,$lte:600}}})
< {
  _id: ObjectId('6618f36da89c9b87f222fcd0'),
  id: '1',
  product_name: 'Intelligent Fresh Chips',
  product_price: 655,
  product_material: 'Concrete',
  product_color: 'mint green'
}
{
  _id: ObjectId('6618f36da89c9b87f222fce2'),
  id: '5',
  product_name: 'Sleek Cotton Chair',
  product_price: 33,
  product_material: 'Fresh',
  product_color: 'black'
}
{
  _id: ObjectId('6618f36da89c9b87f222fce5'),
  id: '8',
  product_name: 'Incredible Steel Hat',
  product_price: 78,
  product_material: 'Rubber',
  product_color: 'violet'
}
```

```
{
  _id: ObjectId('6618f36da89c9b87f222fce6'),
  id: '9',
  product_name: 'Awesome Wooden Ball',
  product_price: 28,
  product_material: 'Soft',
  product_color: 'azure'
}
{
  _id: ObjectId('6618f36da89c9b87f222fcf0'),
  id: '19',
  product_name: 'Intelligent Cotton Chips',
  product_price: 46,
  product_material: 'Soft',
  product_color: 'azure'
}
{
  _id: ObjectId('6618f36da89c9b87f222fcf4'),
  id: '23',
  product_name: 'Intelligent Steel Pizza',
  product_price: 95,
  product_material: 'Cotton',
  product_color: 'azure'
}
{
```

```
  _id: ObjectId('6618f36da89c9b87f222fcf5'),
  id: '24',
  product_name: 'Tasty Rubber Cheese',
  product_price: 47,
  product_material: 'Frozen',
  product_color: 'orchid'
}
{
  _id: ObjectId('6618f36da89c9b87f222fcf6'),
  id: '25',
  product_name: 'Licensed Steel Car',
  product_price: 20,
  product_material: 'Cotton',
  product_color: 'indigo'
}
{
  _id: ObjectId('6618f36da89c9b87f222fce9'),
  id: '12',
  product_name: 'Unbranded Plastic Salad',
  product_price: 89,
  product_material: 'Wooden',
  product_color: 'pink'
}
{
  _id: ObjectId('6618f36da89c9b87f222fcef'),
```

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

Query: db.products.find({product_price:{\$gte:500}}).limit(4)

```

>_MONGOSH
> db.products.find({product_price:{$gt:500}}).limit(4)
< {
  _id: ObjectId('6618f36da89c9b87f222fcde'),
  id: '1',
  product_name: 'Intelligent Fresh Chips',
  product_price: 655,
  product_material: 'Concrete',
  product_color: 'mint green'
}
{
  _id: ObjectId('6618f36da89c9b87f222fce0'),
  id: '3',
  product_name: 'Refined Steel Car',
  product_price: 690,
  product_material: 'Rubber',
  product_color: 'gold'
}
{
  _id: ObjectId('6618f36da89c9b87f222fcdf'),
  id: '2',
  product_name: 'Practical Fresh Sausages',
  product_price: 911,
  product_material: 'Cotton',
  product_color: 'indigo'
}

```

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: 'Sleek Cotton Chair',
  product_material: 'Fresh'
}
{
  product_name: 'Incredible Steel Hat',
  product_material: 'Rubber'
}
{
  product_name: 'Awesome Wooden Ball',
  product_material: 'Soft'
}
{
  product_name: 'Intelligent Cotton Chips',
  product_material: 'Soft'
}
{
  product_name: 'Intelligent Steel Pizza',
  product_material: 'Cotton'
}

```

```
{
  product_name: 'Tasty Rubber Cheese',
  product_material: 'Frozen'
}
{
  product_name: 'Licensed Steel Car',
  product_material: 'Cotton'
}
{
  product_name: 'Unbranded Plastic Salad',
  product_material: 'Wooden'
}
{
  product_name: 'Licensed Plastic Bacon',
  product_material: 'Steel'
}
{
  product_name: 'Handcrafted Wooden Bacon',
  product_material: 'Concrete'
}
{
  product_name: 'Refined Steel Car',
  product_material: 'Rubber'
}
```

```
{
  product_name: 'Awesome Wooden Towels',
  product_material: 'Plastic'
}
{
  product_name: 'Practical Soft Shoes',
  product_material: 'Rubber'
}
{
  product_name: 'Ergonomic Cotton Hat',
  product_material: 'Rubber'
}
{
  product_name: 'Small Soft Chair',
  product_material: 'Cotton'
}
{
  product_name: 'Unbranded Granite Chicken',
  product_material: 'Metal'
}
{
  product_name: 'Practical Fresh Sausages',
  product_material: 'Cotton'
}
```

6) Find the product with a row id of 10

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

```
db.products.find({id:"10"})
{
  _id: ObjectId('6618f36da89c9b87f222fce7'),
  id: '10',
  product_name: 'Generic Wooden Pizza',
  product_price: 84,
  product_material: 'Frozen',
  product_color: 'indigo'
}
Atlas Atlas-AWU4UR-shard-0 [primary] MowriDB>
```

7) Find only the product name and product material

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: 'Sleek Cotton Chair',
  product_material: 'Fresh'
}
{
  product_name: 'Incredible Steel Hat',
  product_material: 'Rubber'
}
{
  product_name: 'Awesome Wooden Ball',
  product_material: 'Soft'
}
{
  product_name: 'Intelligent Cotton Chips',
  product_material: 'Soft'
}
{
  product_name: 'Intelligent Steel Pizza',
  product_material: 'Cotton'
}
```

```
{
  product_name: 'Tasty Rubber Cheese',
  product_material: 'Frozen'
}
{
  product_name: 'Licensed Steel Car',
  product_material: 'Cotton'
}
{
  product_name: 'Unbranded Plastic Salad',
  product_material: 'Wooden'
}
{
  product_name: 'Licensed Plastic Bacon',
  product_material: 'Steel'
}
{
  product_name: 'Handcrafted Wooden Bacon',
  product_material: 'Concrete'
}
{
  product_name: 'Refined Steel Car',
  product_material: 'Rubber'
}
```

```
{
  product_name: 'Tasty Rubber Cheese',
  product_material: 'Frozen'
}
{
  product_name: 'Licensed Steel Car',
  product_material: 'Cotton'
}
{
  product_name: 'Unbranded Plastic Salad',
  product_material: 'Wooden'
}
{
  product_name: 'Licensed Plastic Bacon',
  product_material: 'Steel'
}
{
  product_name: 'Handcrafted Wooden Bacon',
  product_material: 'Concrete'
}
{
  product_name: 'Refined Steel Car',
  product_material: 'Rubber'
}
```

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

Query: db.product.({product_material:"Soft"})

```
> db.products.find({product_material:"Soft"})
< {
  _id: ObjectId('6618f36da89c9b87f222fce6'),
  id: '9',
  product_name: 'Awesome Wooden Ball',
  product_price: 28,
  product_material: 'Soft',
  product_color: 'azure'
}
{
  _id: ObjectId('6618f36da89c9b87f222fce0'),
  id: '19',
  product_name: 'Intelligent Cotton Chips',
  product_price: 46,
  product_material: 'Soft',
  product_color: 'azure'
}
{
  _id: ObjectId('6618f36da89c9b87f222fce1'),
  id: '4',
  product_name: 'Gorgeous Plastic Pants',
  product_price: 492,
  product_material: 'Soft',
  product_color: 'plum'
}
```

```
{
  _id: ObjectId('6618f36da89c9b87f222fce1'),
  id: '4',
  product_name: 'Gorgeous Plastic Pants',
  product_price: 492,
  product_material: 'Soft',
  product_color: 'plum'
}
{
  _id: ObjectId('6618f36da89c9b87f222fce8'),
  id: '11',
  product_name: 'Unbranded Wooden Cheese',
  product_price: 26,
  product_material: 'Soft',
  product_color: 'black'
}
```

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

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

There are no output with both product_color;indigo and product_price : 492.00.

But there are output with either product_color:indigo or product_price : 492.00.

Query: db.products.find({\$or:[{product_color:indigo},{ product_price : 492.00}]})

```
db.products.find({  
  $or: [  
    { product_color: "indigo" },  
    { product_price: 492.00 }  
  ]  
})  
{  
  _id: ObjectId('6618f36da89c9b87f222fcf6'),  
  id: '25',  
  product_name: 'Licensed Steel Car',  
  product_price: 20,  
  product_material: 'Cotton',  
  product_color: 'indigo'  
}  
{  
  _id: ObjectId('6618f36da89c9b87f222fcd6'),  
  id: '2',  
  product_name: 'Practical Fresh Sausages',  
  product_price: 911,  
  product_material: 'Cotton',  
  product_color: 'indigo'  
}  
}
```

```

{
  _id: ObjectId('6618f36da89c9b87f222fce1'),
  id: '4',
  product_name: 'Gorgeous Plastic Pants',
  product_price: 492,
  product_material: 'Soft',
  product_color: 'plum'
}
{
  _id: ObjectId('6618f36da89c9b87f222fce7'),
  id: '10',
  product_name: 'Generic Wooden Pizza',
  product_price: 84,
  product_material: 'Frozen',
  product_color: 'indigo'
}
{
  _id: ObjectId('6618f36da89c9b87f222fcee'),
  id: '17',
  product_name: 'Incredible Metal Car',
  product_price: 36,
  product_material: 'Fresh',
  product_color: 'indigo'
}

```

10) Delete the products which product price value are 28

Query: `db.products.deleteone({product_price:28})`

