

MongoDB Day 1

1. Find all the information about each products

Query: `db.products.find();`

Output:

```
> db.products.find();
< {
  _id: ObjectId('65e041e0bf2332f32cd93991'),
  id: '1',
  product_name: 'Intelligent Fresh Chips',
  product_price: 655,
  product_material: 'Concrete',
  product_color: 'mint green'
}
{
  _id: ObjectId('65e041e0bf2332f32cd93992'),
  id: '2',
  product_name: 'Practical Fresh Sausages',
  product_price: 911,
  product_material: 'Cotton',
  product_color: 'indigo'
}
{
  _id: ObjectId('65e041e0bf2332f32cd93993'),
  id: '3',
  product_name: 'Refined Steel Car',
  product_price: 699,
  product_material: 'Rubber',
  product_color: 'gold'
}
{
  _id: ObjectId('65e041e0bf2332f32cd93994'),
  id: '4',
  product_name: 'Gorgeous Plastic Pants',
  product_price: 492,
  product_material: 'Soft',
  product_color: 'plum'
}
{
  _id: ObjectId('65e041e0bf2332f32cd93995'),
  id: '5',
  product_name: 'Awesome Wooden Towels',
  product_price: 474,
  product_material: 'Plastic',
  product_color: 'orange'
}
{
  _id: ObjectId('65e041e0bf2332f32cd93996'),
  id: '6',
  product_name: 'Intelligent Steel Pizza',
  product_price: 95,
  product_material: 'Cotton',
  product_color: 'azure'
}
{
  _id: ObjectId('65e041e0bf2332f32cd93997'),
  id: '7',
  product_name: 'Practical Soft Shoes',
  product_price: 506,
  product_material: 'Rubber',
  product_color: 'mint green'
}
{
  _id: ObjectId('65e041e0bf2332f32cd93998'),
  id: '8',
  product_name: 'Ergonomic Cotton Hat',
  product_price: 43,
  product_material: 'Rubber',
  product_color: 'mint green'
}
{
  _id: ObjectId('65e041e0bf2332f32cd93999'),
  id: '9',
  product_name: 'Small Soft Chair',
  product_price: 47,
  product_material: 'Cotton',
  product_color: 'teal'
}
{
  _id: ObjectId('65e041e0bf2332f32cd9399a'),
  id: '10',
  product_name: 'Incredible Metal Car',
  product_price: 20,
  product_material: 'Cotton',
  product_color: 'orchid'
}
{
  _id: ObjectId('65e041e0bf2332f32cd9399b'),
  id: '11',
  product_name: 'Tasty Rubber Cheese',
  product_price: 47,
  product_material: 'Frozen',
  product_color: 'orchid'
}
{
  _id: ObjectId('65e041e0bf2332f32cd9399c'),
  id: '12',
  product_name: 'Licensed Steel Car',
  product_price: 20,
  product_material: 'Cotton',
  product_color: 'orchid'
}
{
  _id: ObjectId('65e041e0bf2332f32cd9399d'),
  id: '13',
  product_name: 'Intelligent Steel Pizza',
  product_price: 95,
  product_material: 'Cotton',
  product_color: 'azure'
}
{
  _id: ObjectId('65e041e0bf2332f32cd9399e'),
  id: '14',
  product_name: 'Tasty Rubber Cheese',
  product_price: 47,
  product_material: 'Frozen',
  product_color: 'orchid'
}
{
  _id: ObjectId('65e041e0bf2332f32cd9399f'),
  id: '15',
  product_name: 'Ergonomic Cotton Hat',
  product_price: 43,
  product_material: 'Rubber',
  product_color: 'mint green'
}
{
  _id: ObjectId('65e041e0bf2332f32cd93999a'),
  id: '16',
  product_name: 'Small Soft Chair',
  product_price: 47,
  product_material: 'Cotton',
  product_color: 'teal'
}
{
  _id: ObjectId('65e041e0bf2332f32cd93999b'),
  id: '17',
  product_name: 'Incredible Metal Car',
  product_price: 20,
  product_material: 'Cotton',
  product_color: 'orchid'
}
```

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

Query: `db.products.find({"product_price":{$gt:400,$lt:800}});`

Output:

```
{
  _id: ObjectId('65e041e0bf2332f32cd93991'),
  id: '1',
  product_name: 'Intelligent Fresh Chips',
  product_price: 655,
  product_material: 'Concrete',
  product_color: 'mint green'
}
{
  _id: ObjectId('65e041e0bf2332f32cd93993'),
  id: '3',
  product_name: 'Refined Steel Car',
  product_price: 699,
  product_material: 'Rubber',
  product_color: 'gold'
}
{
  _id: ObjectId('65e041e0bf2332f32cd93994'),
  id: '4',
  product_name: 'Gorgeous Plastic Pants',
  product_price: 492,
  product_material: 'Soft',
  product_color: 'plum'
}
{
  _id: ObjectId('65e041e0bf2332f32cd93996'),
  id: '6',
  product_name: 'Awesome Wooden Towels',
  product_price: 474,
  product_material: 'Plastic',
  product_color: 'orange'
}
{
  _id: ObjectId('65e041e0bf2332f32cd93997'),
  id: '7',
  product_name: 'Practical Soft Shoes',
  product_price: 506,
  product_material: 'Rubber',
  product_color: 'mint green'
}
```

- Output:

```

    _id: ObjectId('65e041e0bf2332f32cd93997'),
    id: '7',
    product_name: 'Practical Soft Shoes',
    product_price: 500,
    product_material: 'Rubber',
    product_color: 'pink'
  }
  db.products.find({$nor:[{"product_price":{$gt:400,$lt:800}}]});
  [
    {
      _id: ObjectId('65e041e0bf2332f32cd93992'),
      id: '2',
      product_name: 'Practical Fresh Sausages',
      product_price: 911,
      product_material: 'Cotton',
      product_color: 'indigo'
    },
    {
      _id: ObjectId('65e041e0bf2332f32cd93995'),
      id: '5',
      product_name: 'Sleek Cotton Chair',
      product_price: 33,
      product_material: 'Fresh',
      product_color: 'black'
    },
    {
      _id: ObjectId('65e041e0bf2332f32cd93998'),
      id: '8',
      product_name: 'Incredible Steel Hat',
      product_price: 78,
      product_material: 'Rubber',
      product_color: 'violet'
    },
    {
      _id: ObjectId('65e041e0bf2332f32cd93999'),
      id: '9',
      product_name: 'Awesome Wooden Ball',
      product_price: 28,
      product_material: 'Soft',
      product_color: 'azure'
    }
  ]

```

- Output:

```
> mongoosh
> db.products.find({"product_price":{$gt:500}}).limit(4);
< [
  {
    _id: ObjectId('65e041e0bf2332f32cd93991'),
    id: '1',
    product_name: 'Intelligent Fresh Chips',
    product_price: 655,
    product_material: 'Concrete',
    product_color: 'mint green'
  },
  {
    _id: ObjectId('65e041e0bf2332f32cd93992'),
    id: '2',
    product_name: 'Practical Fresh Sausages',
    product_price: 911,
    product_material: 'Cotton',
    product_color: 'indigo'
  },
  {
    _id: ObjectId('65e041e0bf2332f32cd93993'),
    id: '3',
    product_name: 'Refined Steel Car',
    product_price: 690,
    product_material: 'Rubber',
    product_color: 'gold'
  }
]
```

- Output:

```

MONODGSH
{
  _id: ObjectId('656a41e0bf2323f32cd93991'),
  product_name: 'Intelligent Fresh Chips',
  product_material: 'Concrete'
}
{
  _id: ObjectId('656a41e0bf2323f32cd93992'),
  product_name: 'Practical Fresh Sausages',
  product_material: 'Cotton'
}
{
  _id: ObjectId('656a41e0bf2323f32cd93993'),
  product_name: 'Refined Steel Car',
  product_material: 'Rubber'
}
{
  _id: ObjectId('656a41e0bf2323f32cd93994'),
  product_name: 'Gorgeous Plastic Pants',
}

```

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

# MongoDB Day 1

Output:

```
> db.products.find({id:"10"});
< {
 _id: ObjectId('65e041e0bf2332f32cd9399a'),
 id: '10',
 product_name: 'Generic Wooden Pizza',
 product_price: 84,
 product_material: 'Frozen',
 product_color: 'indigo'
}
day1>
```

7. Find only the product name and product material

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

Output:

```
> db.products.find({},{"product_name":1,"product_material":1,_id:0});
{
 product_name: 'Sleek Cotton Chair',
 product_material: 'Fresh'
}
{
 product_name: 'Awesome Wooden Yowls',
 product_material: 'Elastic'
}
{
 product_name: 'Practical Soft Shoes',
 product_material: 'Rubber'
}
{
 product_name: 'Incredible Steel Hat',
 product_material: 'Rubber'
}
{
 product_name: 'Awesome Wooden Ball',
 product_material: 'Soft'
}
{
 product_name: 'Intelligent Cotton Chips',
 product_material: 'Soft'
}
```

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

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

Output:

```
> db.products.find({"product_material":"Soft"});
< {
 _id: ObjectId('65e041e0bf2332f32cd93994'),
 id: '4',
 product_name: 'Gorgeous Plastic Pants',
 product_price: 492,
 product_material: 'Soft',
 product_color: 'plum'
}
{
 _id: ObjectId('65e041e0bf2332f32cd93999'),
 id: '9',
 product_name: 'Awesome Wooden Ball',
 product_price: 28,
 product_material: 'Soft',
 product_color: 'azure'
}
{
 _id: ObjectId('65e041e0bf2332f32cd9399b'),
 id: '11',
 product_name: 'Unbranded Wooden Cheese',
 product_price: 26,
 product_material: 'Soft',
 product_color: 'black'
}
{
 _id: ObjectId('65e041e0bf2332f32cd9399a3'),
 id: '19',
 product_name: 'Intelligent Cotton Chips',
 product_price: 46,
 product_material: 'Soft',
 product_color: 'azure'
}
day1>
```

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

Query: `db.products.find({$or:[{product_color:"indigo"},{product_price:492}]});`

Output:

---

```

>_MONGOSH
{
 |
 2 |
}

db.products.find({$or:[{product_color:"indigo"},{product_price:492}]});
[{
 _id: ObjectId('65e041e0bf2332f32cd93992'),
 id: '2',
 product_name: 'Practical Fresh Sausages',
 product_price: 911,
 product_material: 'Cotton',
 product_color: 'indigo'
},
{
 _id: ObjectId('65e041e0bf2332f32cd93994'),
 id: '4',
 product_name: 'Gorgeous Plastic Pants',
 product_price: 492,
 product_material: 'Soft',
 product_color: 'plum'
}
]

```

Query:

```
db.products.aggregate([{"$group": {"_id": "$product_price", "count": {"$sum": 1}, "products": {"$push": "$_id"}}, {"$match": {"count": {"$gt": 1}}]);
```

```
db.products.deleteMany({ "_id": { "$in": [ObjectId("65e0741464c8a79251f957dd"),
ObjectId("65e0741464c8a79251f957e0"),ObjectId("65e0741464c8a79251f957dc"),ObjectId("65e07414
64c8a79251f957e4")] } });
```

```

> db.products.aggregate([{"$group": {"_id": "$product_price",
< {
 _id: 47,
 count: 2,
 products: [
 ObjectId('65e041e0bf2332f32cd939a0'),
 ObjectId('65e041e0bf2332f32cd939a8')
]
}
]
{
 _id: 36,
 count: 2,
 products: [
 ObjectId('65e041e0bf2332f32cd939a1'),
 ObjectId('65e041e0bf2332f32cd939a4')
]
}
]
day1>

```

```

> db.products.deleteMany({ "_id": { "$in":
> ▶ SyntaxError: Unexpected token, expect
> 1 | db.products.deleteMany({ "_id":
 |
 2 |
> db.products.deleteMany({ "_id": { "$in":
> ▶ 194)
 [ObjectId("65e041e0bf2332f32cd939a0")]
> db.products.deleteMany({ "_id": { "$in":
< {
 acknowledged: true,
 deletedCount: 4
}
day1>

```

