

# MongoDB Day 1

1. Find all the information about each products ?

Ans:

`db.product.find()`

```
> use taskDB
switched to db taskDB
> db.product.find()
{
  "_id": ObjectId("66c7486a55629fb01c763396"),
  "id": "1",
  "product_name": "Intelligent Fresh Chips",
  "product_price": 655,
  "product_material": "Concrete",
  "product_color": "mint green"
}
{
  "_id": ObjectId("66c7486a55629fb01c763397"),
  "id": "2",
  "product_name": "Practical Fresh Sausages",
  "product_price": 511,
  "product_material": "Cotton",
  "product_color": "indigo"
}
{
  "_id": ObjectId("66c7486a55629fb01c763398"),
  "id": "3",
  "product_name": "Refined Steel Car",
  "product_price": 698,
  "product_material": "Rubber",
  "product_color": "gold"
}
{
  "_id": ObjectId("66c7486a55629fb01c763399"),
  "id": "4",
  "product_name": "Gorgeous Plastic Pants",
  "product_price": 492,
  "product_material": "Soft",
  "product_color": "plum"
}
{
  "_id": ObjectId("66c7486a55629fb01c76339a"),
  "id": "5",
  "product_name": "Sleek Cotton Chair",
  "product_price": 511,
  "product_material": "Cotton",
  "product_color": "indigo"
}
```

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

Ans:

```
db.product.find({
  $and: [
    { product_price: { $gt: 400 } },
    { product_price: { $lt: 800 } }
  ]
})
```



```
Atlas atlas-rcfvj7-shard-0 [primary] task08 >
{
  "_id": ObjectId("66c7486a55629fb01c763396"),
  "id": "1",
  "product_name": "Intelligent Fresh Chips",
  "product_price": 655,
  "product_material": "Concrete",
  "product_color": "mint green"
}
{
  "_id": ObjectId("66c7486a55629fb01c763398"),
  "id": "3",
  "product_name": "Refined Steel Car",
  "product_price": 690,
  "product_material": "Rubber",
  "product_color": "gold"
}
{
  "_id": ObjectId("66c7486a55629fb01c763399"),
  "id": "4",
  "product_name": "Gorgeous Plastic Pants",
  "product_price": 492,
  "product_material": "Soft",
  "product_color": "plum"
}
{
  "_id": ObjectId("66c7486a55629fb01c76339b"),
  "id": "6",
  "product_name": "Awesome Wooden Towels",
  "product_price": 474,
  "product_material": "Plastic",
  "product_color": "orange"
}
{
  "_id": ObjectId("66c7486a55629fb01c76339c"),
  "id": "7",
  "product_name": "Practical Soft Shoes",
  "product_price": 680,
  "product_material": "Rubber",
  "product_color": "pink"
}
}
```

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

Ans:

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



```

< {
  _id: ObjectId('66c7486a55629fb81c763396'),
  id: '1',
  product_name: 'Intelligent Fresh Chips',
  product_price: 655,
  product_material: 'Concrete',
  product_color: 'mint green'
}
{
  _id: ObjectId('66c7486a55629fb81c763397'),
  id: '2',
  product_name: 'Practical Fresh Sausages',
  product_price: 911,
  product_material: 'Cotton',
  product_color: 'indigo'
}
{
  _id: ObjectId('66c7486a55629fb81c763398'),
  id: '3',
  product_name: 'Refined Steel Car',
  product_price: 699,
  product_material: 'Rubber',
  product_color: 'gold'
}
{
  _id: ObjectId('66c7486a55629fb81c76339a'),
  id: '5',
  product_name: 'Sleek Cotton Chair',
  product_price: 33,
  product_material: 'Fresh',
  product_color: 'black'
}
{
  _id: ObjectId('66c7486a55629fb81c76339d'),
  id: '8',
  product_name: 'Incredible Steel Hat',
  product_price: 78,
  product_material: 'Rubber',
  product_color: 'violet'
}
{

```

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

Ans:

```
db.product.find({ product_price: { $gte: 500 } }).limit(4)
```

```
> db.product.find({ product_price: { $gte: 500 } }).limit(4)
< {
  _id: ObjectId('66c7486a55629fb81c763396'),
  id: '1',
  product_name: 'Intelligent Fresh Chips',
  product_price: 655,
  product_material: 'Concrete',
  product_color: 'mint green'
}
{
  _id: ObjectId('66c7486a55629fb81c763397'),
  id: '2',
  product_name: 'Practical Fresh Sausages',
  product_price: 911,
  product_material: 'Cotton',
  product_color: 'indigo'
}
{
  _id: ObjectId('66c7486a55629fb81c763398'),
  id: '3',
  product_name: 'Refined Steel Car',
  product_price: 690,
  product_material: 'Rubber',
  product_color: 'gold'
}
{
  _id: ObjectId('66c7486a55629fb81c76339c'),
  id: '7',
  product_name: 'Practical Soft Shoes',
  product_price: 580,
  product_material: 'Rubber',
  product_color: 'pink'
}
Atlas atlas-rcfvj7-shard-0 [primary] task08>
```

5. Find the product name and product material of each products

Ans:

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



A screenshot of a MongoDB terminal window with a dark blue background. The terminal shows the output of a find query. The output is a JSON array of eight objects, each representing a product. Each object has three fields: \_id (a hexadecimal string), product\_name, and product\_material. The products listed are: Intelligent Fresh Chips (Concrete), Practical Fresh Sausages (Cotton), Refined Steel Car (Rubber), Gorgeous Plastic Pants (Soft), Steak Cotton Chair (Fresh), Awesome Wooden Towels (Plastic), Practical Soft Shoes (Rubber), and Incredible Steel Hat (Rubber).

```
> MONGODB
{
  "_id": ObjectId("66c7486a55629fb1c76339e"),
  "product_name": "Intelligent Fresh Chips",
  "product_material": "Concrete"
}
{
  "_id": ObjectId("66c7486a55629fb1c763397"),
  "product_name": "Practical Fresh Sausages",
  "product_material": "Cotton"
}
{
  "_id": ObjectId("66c7486a55629fb1c763398"),
  "product_name": "Refined Steel Car",
  "product_material": "Rubber"
}
{
  "_id": ObjectId("66c7486a55629fb1c763399"),
  "product_name": "Gorgeous Plastic Pants",
  "product_material": "Soft"
}
{
  "_id": ObjectId("66c7486a55629fb1c76339a"),
  "product_name": "Steak Cotton Chair",
  "product_material": "Fresh"
}
{
  "_id": ObjectId("66c7486a55629fb1c76339b"),
  "product_name": "Awesome Wooden Towels",
  "product_material": "Plastic"
}
{
  "_id": ObjectId("66c7486a55629fb1c76339c"),
  "product_name": "Practical Soft Shoes",
  "product_material": "Rubber"
}
{
  "_id": ObjectId("66c7486a55629fb1c76339d"),
  "product_name": "Incredible Steel Hat",
  "product_material": "Rubber"
}
```

6. Find the product with a row id of 10

Ans:

```
db.product.find({ id: '10' })
```

```
> db.product.find({ id: '10' })
< {
  _id: ObjectId('66c7486a55629fb81c76339f'),
  id: '10',
  product_name: 'Generic Wooden Pizza',
  product_price: 84,
  product_material: 'Frozen',
  product_color: 'Indigo'
}
Atlas atlas-rcfvj7-shard-0 [primary] task08
```

7. Find only the product name and product material

Ans:

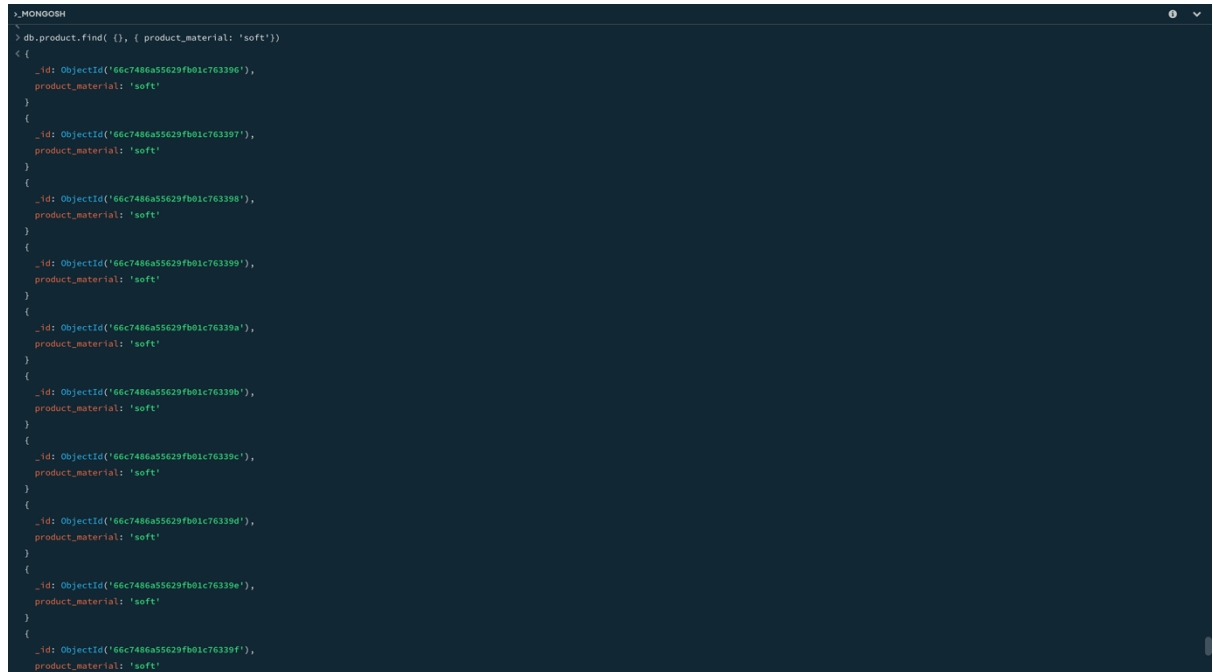
```
db.product.find({}, { product_name: 1, product_material: 1, _id: 0 })
```

```
js_MONGOOSH
{
  {
    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'
  }
  {
    product_name: 'Generic Wooden Pizza',
    product_material: 'Frozen'
  }
}
```

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

Ans:

```
db.product.find( {}, {product_material: 'soft' })
```



```

> db.product.find( {}, {product_material: 'soft'})
{
  "_id": ObjectId("66c7486a55629fb01c763396"),
  "product_material": "soft"
}
{
  "_id": ObjectId("66c7486a55629fb01c763397"),
  "product_material": "soft"
}
{
  "_id": ObjectId("66c7486a55629fb01c763398"),
  "product_material": "soft"
}
{
  "_id": ObjectId("66c7486a55629fb01c763399"),
  "product_material": "soft"
}
{
  "_id": ObjectId("66c7486a55629fb01c76339a"),
  "product_material": "soft"
}
{
  "_id": ObjectId("66c7486a55629fb01c76339b"),
  "product_material": "soft"
}
{
  "_id": ObjectId("66c7486a55629fb01c76339c"),
  "product_material": "soft"
}
{
  "_id": ObjectId("66c7486a55629fb01c76339d"),
  "product_material": "soft"
}
{
  "_id": ObjectId("66c7486a55629fb01c76339e"),
  "product_material": "soft"
}
{
  "_id": ObjectId("66c7486a55629fb01c76339f"),
  "product_material": "soft"
}

```



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

Ans:

```
db.product.find({ product_color: "indigo", product_price: 492 })
```

10. Delete the products which product price value are 28

Ans:

```
db.product.deleteMany({ product_price: 28 })
```

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