MongoDB Day 1

1. Find all the information about each products ?

Ans:

db.product.find()

```
>_MONGOSH                                                                                          ⓘ  ⌄
> 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: 911,
    product_material: 'Cotton',
    product_color: 'indigo'
  }
  {
    _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('66c7486a55629fb01c76339a'),
    id: '5',
    product_name: 'Sleek Cotton Chair',
```

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

Ans:

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

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

Ans:

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

>_MONGOSH   ⓘ ⌄
< {
    _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: 911,
    product_material: 'Cotton',
    product_color: 'indigo'
}
{
    _id: ObjectId('66c7486a55629fb01c763398'),
    id: '3',
    product_name: 'Refined Steel Car',
    product_price: 690,
    product_material: 'Rubber',
    product_color: 'gold'
}
{
    _id: ObjectId('66c7486a55629fb01c76339a'),
    id: '5',
    product_name: 'Sleek Cotton Chair',
    product_price: 33,
    product_material: 'Fresh',
    product_color: 'black'
}
{
    _id: ObjectId('66c7486a55629fb01c76339d'),
    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('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: 911,
    product_material: 'Cotton',
    product_color: 'indigo'
  }
  {
    _id: ObjectId('66c7486a55629fb01c763398'),
    id: '3',
    product_name: 'Refined Steel Car',
    product_price: 690,
    product_material: 'Rubber',
    product_color: 'gold'
  }
  {
    _id: ObjectId('66c7486a55629fb01c76339c'),
    id: '7',
    product_name: 'Practical Soft Shoes',
    product_price: 500,
    product_material: 'Rubber',
    product_color: 'pink'
  }
Atlas atlas-rcfvj7-shard-0 [primary] taskDB>
```

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

Ans:

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

```
>_MONGOSH                                                                                    ⓘ  ⌄
< {
    _id: ObjectId('66c7486a55629fb01c763396'),
    product_name: 'Intelligent Fresh Chips',
    product_material: 'Concrete'
  }
  {
    _id: ObjectId('66c7486a55629fb01c763397'),
    product_name: 'Practical Fresh Sausages',
    product_material: 'Cotton'
  }
  {
    _id: ObjectId('66c7486a55629fb01c763398'),
    product_name: 'Refined Steel Car',
    product_material: 'Rubber'
  }
  {
    _id: ObjectId('66c7486a55629fb01c763399'),
    product_name: 'Gorgeous Plastic Pants',
    product_material: 'Soft'
  }
  {
    _id: ObjectId('66c7486a55629fb01c76339a'),
    product_name: 'Sleek Cotton Chair',
    product_material: 'Fresh'
  }
  {
    _id: ObjectId('66c7486a55629fb01c76339b'),
    product_name: 'Awesome Wooden Towels',
    product_material: 'Plastic'
  }
  {
    _id: ObjectId('66c7486a55629fb01c76339c'),
    product_name: 'Practical Soft Shoes',
    product_material: 'Rubber'
  }
  {
    _id: ObjectId('66c7486a55629fb01c76339d'),
    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('66c7486a55629fb01c76339f'),
    id: '10',
    product_name: 'Generic Wooden Pizza',
    product_price: 84,
    product_material: 'Frozen',
    product_color: 'indigo'
  }
Atlas atlas-rcfvj7-shard-0 [primary] taskDB>
```

7. Find only the product name and product material

Ans:

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

```
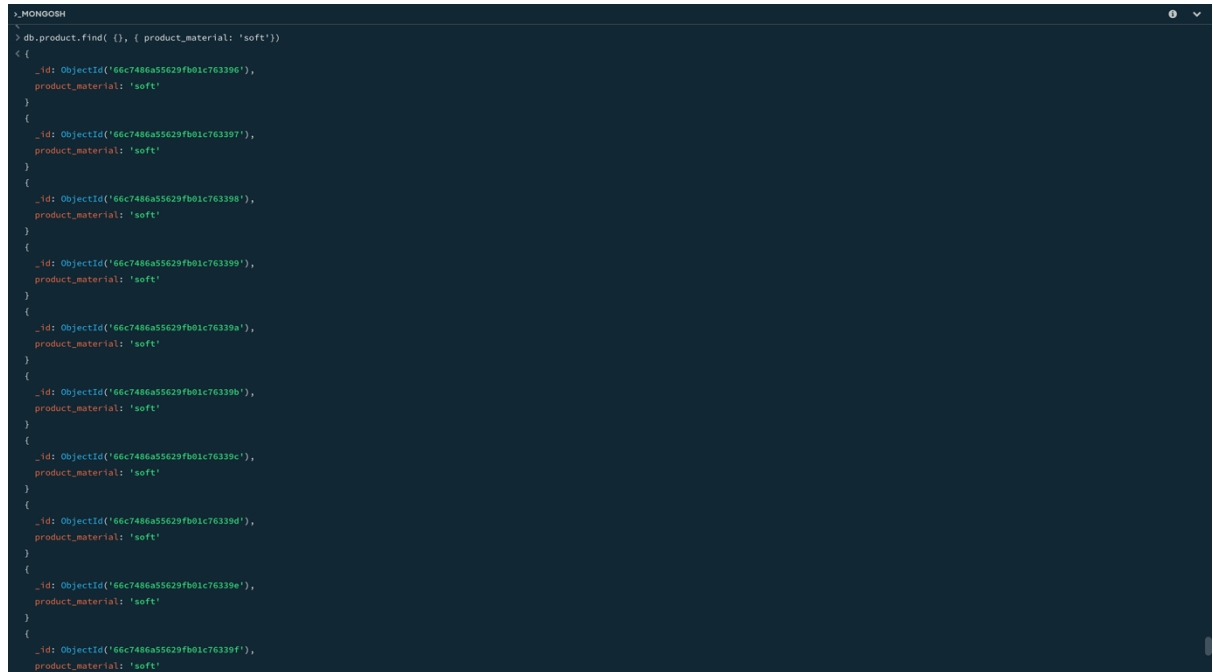>_MONGOSH                                                                                    ⓘ  ⌄
< {
    product_name: 'Intelligent Fresh Chips',
    product_material: 'Concrete'
  }
  {
    product_name: 'Practical Fresh Sausages',
    product_material: 'Cotton'
  }
  {
    product_name: 'Refined Steel 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' })

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
  }
```