

MongoDB DAY 1

Q.1 Find all the information about each products :

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

```
>_MONGOSH
> db.products.find();
< {
  _id: ObjectId('668fc539a27ae138b2b4a047'),
  id: '1',
  product_name: 'Intelligent Fresh Chips',
  product_price: 655,
  product_material: 'Concrete',
  product_color: 'mint green'
}
{
  _id: ObjectId('668fc539a27ae138b2b4a048'),
  id: '2',
  product_name: 'Practical Fresh Sausages',
  product_price: 911,
  product_material: 'Cotton',
  product_color: 'indigo'
}
{
  _id: ObjectId('668fc539a27ae138b2b4a049'),
  id: '3',
  product_name: 'Refined Steel Car',
  product_price: 690,
  product_material: 'Rubber',
  product_color: 'gold'
},
```

Q2. Find the product price which are between 400 to 800 :

QUERY :

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

```

> db.products.find({product_price:{$gt:400,$lt:800}});
< {
  _id: ObjectId('668fc539a27ae138b2b4a047'),
  id: '1',
  product_name: 'Intelligent Fresh Chips',
  product_price: 655,
  product_material: 'Concrete',
  product_color: 'mint green'
}
{
  _id: ObjectId('668fc539a27ae138b2b4a049'),
  id: '3',
  product_name: 'Refined Steel Car',
  product_price: 690,
  product_material: 'Rubber',
  product_color: 'gold'
}
{
  _id: ObjectId('668fc539a27ae138b2b4a04a'),
  id: '4',
  product_name: 'Gorgeous Plastic Pants',
  product_price: 492,
  product_material: 'Soft',
  product_color: 'plum'
}

```

Q2. Find the product price which are not between 400 to 600 :

QUERY :

```

db.products.find({
  $or: [
    { product_price: { $lte: 400 } },
    { product_price: { $gte: 600 } }
  ]
});

```

```
> db.products.find({$or:[{"product_price":{$lte:400}},{"product_price":{$gte:600}}]});
< {
  _id: ObjectId('668fc539a27ae138b2b4a047'),
  id: '1',
  product_name: 'Intelligent Fresh Chips',
  product_price: 655,
  product_material: 'Concrete',
  product_color: 'mint green'
}
{
  _id: ObjectId('668fc539a27ae138b2b4a048'),
  id: '2',
  product_name: 'Practical Fresh Sausages',
  product_price: 911,
  product_material: 'Cotton',
  product_color: 'indigo'
}
{
  _id: ObjectId('668fc539a27ae138b2b4a049'),
  id: '3',
  product_name: 'Refined Steel Car',
  product_price: 690,
  product_material: 'Rubber',
  product_color: 'gold'
}
```

```
db.products.countDocuments({$or:[{"product_price":{$lte:400}},{"product_price":{$gte:600}}]});
22
```

Q4. List the four product which are greater than 500 in price

QUERY :

db.products

.find({ product_price: { \$gt: 500 } })

.limit(4);

```

> db.products.find({"product_price":{$gt:500}}).limit(4);
< {
  _id: ObjectId('668fc539a27ae138b2b4a047'),
  id: '1',
  product_name: 'Intelligent Fresh Chips',
  product_price: 655,
  product_material: 'Concrete',
  product_color: 'mint green'
}
{
  _id: ObjectId('668fc539a27ae138b2b4a048'),
  id: '2',
  product_name: 'Practical Fresh Sausages',
  product_price: 911,
  product_material: 'Cotton',
  product_color: 'indigo'
}
{
  _id: ObjectId('668fc539a27ae138b2b4a049'),
  id: '3',
  product_name: 'Refined Steel Car',
  product_price: 690,
  product_material: 'Rubber',
  product_color: 'gold'
}
Products>|

```

Q5. Find the product name and product material of each products

QUERY :

```

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

```

```
> 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'
}
{
  product_name: 'Generic Wooden Pizza',
  product_material: 'Frozen',
  product_color: 'indigo'
}
```

Q6. Find the product with a row id of 10

```
db.products.find({"id":"10"});
{
  _id: ObjectId('668fc539a27ae138b2b4a050'),
  id: '10',
  product_name: 'Generic Wooden Pizza',
  product_price: 84,
  product_material: 'Frozen',
  product_color: 'indigo'
}
```

QUERY :

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

Q7. Find only the product name and product material

QUERY :

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

```
> 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'  
}
```

Q8. Find all products which contain the value of soft in product material

QUERY :

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

```

db.products.find({"product_material":"Soft"});
{
  "_id": ObjectId('668fc539a27ae138b2b4a04a'),
  "id": '4',
  "product_name": 'Gorgeous Plastic Pants',
  "product_price": 492,
  "product_material": 'Soft',
  "product_color": 'plum'
}
{
  "_id": ObjectId('668fc539a27ae138b2b4a04f'),
  "id": '9',
  "product_name": 'Awesome Wooden Ball',
  "product_price": 28,
  "product_material": 'Soft',
  "product_color": 'azure'
}
{
  "_id": ObjectId('668fc539a27ae138b2b4a051'),
  "id": '11',
  "product_name": 'Unbranded Wooden Cheese',
  "product_price": 26,
  "product_material": 'Soft',
  "product_color": 'black'
}
{
  "_id": ObjectId('668fc539a27ae138b2b4a059'),
  "id": '19',
  "product_name": 'Intelligent Cotton Chips',
  "product_price": 46,
  "product_material": 'Soft',
  "product_color": 'azure'
}

```

Q9. Find products which contain product color indigo and product price 492.00 :

QUERY :

```

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

```

```

db.products.find({$or:[{"product_color":"indigo"},{"product_price":492.00}]});
{
  _id: ObjectId('668fc539a27ae138b2b4a048'),
  id: '2',
  product_name: 'Practical Fresh Sausages',
  product_price: 911,
  product_material: 'Cotton',
  product_color: 'indigo'
}
{
  _id: ObjectId('668fc539a27ae138b2b4a04a'),
  id: '4',
  product_name: 'Gorgeous Plastic Pants',
  product_price: 492,
  product_material: 'Soft',
  product_color: 'plum'
}
{
  _id: ObjectId('668fc539a27ae138b2b4a050'),
  id: '10',
  product_name: 'Generic Wooden Pizza',
  product_price: 84,

```

Q10. Delete the products which product price value are 28

QUERY :

```
db.products.deleteMany({"product_price":28.00});
```

```

> db.products.deleteMany({"product_price":28.00});
< {
  acknowledged: true,
  deletedCount: 1
}
> db.products.countDocuments();
< 24
Products>

```