MONGODB TASK 3

1.Find all the information about each products

QUERY
  db.product.find().pretty();

Output
All documents in the collection are displayed

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

QUERY
  db.product.find({"product_price":{ "$gt":400,"$lt":800 }}).pretty()

Output

```
{
    "_id" : ObjectId("65ed4ed370fa9831e5b50429"),
    "id" : "1",
    "product_name" : "Intelligent Fresh Chips",
    "product_price" : 655,
    "product_material" : "Concrete",
    "product_color" : "mint green"
}
{
    "_id" : ObjectId("65ed4ed370fa9831e5b5042b"),
    "id" : "3",
    "product_name" : "Refined Steel Car",
    "product_price" : 690,
    "product_material" : "Rubber",
    "product_color" : "gold"
}
{
    "_id" : ObjectId("65ed4ed370fa9831e5b5042c"),
    "id" : "4",
    "product_name" : "Gorgeous Plastic Pants",
```

```
    "product_price" : 492,
    "product_material" : "Soft",
    "product_color" : "plum"
}
{
    "_id" : ObjectId("65ed4ed370fa9831e5b5042e"),
    "id" : "6",
    "product_name" : "Awesome Wooden Towels",
    "product_price" : 474,
    "product_material" : "Plastic",
    "product_color" : "orange"
}
{
    "_id" : ObjectId("65ed4ed370fa9831e5b5042f"),
    "id" : "7",
    "product_name" : "Practical Soft Shoes",
    "product_price" : 500,
    "product_material" : "Rubber",
    "product_color" : "pink"
}
```

3.Find the product price which are not between 400 to 600
It shows 22 documents

QUERY

db.product.find({$or: [{ "product_price": { $lt: 400 } }, { "product_price": { $gt: 600 } }],}).pretty();

OUTPUT

{
"_id" : ObjectId("65ec45b6db9bf987e047cc71"),
"id" : "1",
"product_name" :"Intelligent Fresh Chips",
"product_price" : 655,
"product_material" : "Concrete",
"product_color" : "mint green"
}

{
"_id" : ObjectId("65ec45b6db9bf987e047cc72"),
"id" : "2",
"product_name" : "Practical Fresh Sausages",
"product_price" : 911,
"product_material" : "Cotton",
"product_color" : "indigo"
}

{
"_id" : ObjectId("65ec45b6db9bf987e047cc73"),
"id" : "3",
"product_name" : "Refined Steel Car",
"product_price" : 690,
"product_material" : "Rubber",
"product_color" : "gold"
}

{
"_id" : ObjectId("65ec45b6db9bf987e047cc75"),
"id" : "5",
"product_name" : "Sleek Cotton Chair",
"product_price" : 33,
"product_material" : "Fresh",
"product_color" : "black"
}

{
"_id" : ObjectId("65ec45b6db9bf987e047cc78"),
"id" : "8",
"product_name" : "Incredible Steel Hat",
"product_price" : 78,
"product_material" : "Rubber",
"product_color" : "violet"}
{

"_id" : ObjectId("6545b6db9bf987e047cc79"),
"id" : "9",
"product_name":"Awesome Wooden Ball",
"product_price" : 28,
"product_material" : "Soft",
"product_color" : "azure"
}

{
"_id" : ObjectId("65ec45b6db9bf987e047cc7a"),
"id" : "10",
"product_name" : "Generic Wooden Pizza",
"product_price" : 84,
"product_material" : "Frozen",
"product_color" : "indigo"
}

{
"_id" : ObjectId("65ec45b6db9bf987e047cc7b"),
"id" : "11",
"product_name" : "Unbranded Wooden Cheese",
"product_price" : 26,
"product_material" : "Soft",
"product_color" : "black"
}

{
"_id" : ObjectId("65ec45b6db9bf987e047cc7c"),
"id" : "12",
"product_name" : "Unbranded Plastic Salad",
"product_price" : 89,
"product_material" : "Wooden",
"product_color" : "pink"
}

{
"_id" : ObjectId("65ec45b6db9bf987e047cc7d"),
"id" : "13",
"product_name" : "Gorgeous Cotton Keyboard",
"product_price" : 37,
"product_material" : "Concrete",
"product_color" : "sky blue"}
{

"_id" : ObjectId("65ec45b6db9bf987e047cc7e"),
"id" : "14",
"product_name" : "Incredible Steel Shirt",
"product_price" : 54,
"product_material" : "Metal",
"product_color" : "white"
}

{
"_id" : ObjectId("65ec45b6db9bf987e047cc7f"),
"id" : "15",
"product_name" : "Ergonomic Cotton Hat",
"product_price" : 43,
"product_material" : "Rubber",
"product_color" : "mint green"
}

{
"_id" : ObjectId("65ec45b6db9bf987e047cc80"),
"id" : "16",
"product_name" : "Small Soft Chair",
"product_price" : 47,
"product_material" : "Cotton",
"product_color" : "teal"
}

{
"_id" : ObjectId("65ec45b6db9bf987e047cc81"),
"id" : "17",
"product_name" : "Incredible Metal Car",
"product_price" : 36,
"product_material" : "Fresh",
"product_color" : "indigo"
}

{
"_id" : ObjectId("65ec45b6db9bf987e047cc82"),
"id" : "18",
"product_name" : "Licensed Plastic Bacon",
"product_price" : 88,
"product_material" : "Steel",
"product_color" : "yellow"}
{

```
        "_id"              :           "_id"              :      {
ObjectId("65ec45b6db9bf987e047       ObjectId("65ec45b6db9bf987e047           "id": "24",
cc83"),                              cc86"),                                  "_id"              :
        "id" : "19",                         "id" : "22",             ObjectId("65ec45b6db9bf987e047
        "product_name" : "Intelligent       "product_name" : "Ergonomic   cc88"),
Cotton Chips",                       Soft Hat",
        "product_price" : 46,                "product_price" : 99,            "product_name":        "Tasty
        "product_material" : "Soft",         "product_material"      :    Rubber Cheese",
        "product_color" : "azure"    "Rubber",                                "product_price":47.00,
}                                            "product_color" : "black"        "product_material": "Frozen",
                                     }                                        "product_color": "orchid"
                                                                      }

{                                    {                                {
        "_id"              :                 "_id"              :             "_id"              :
ObjectId("65ec45b6db9bf987e047       ObjectId("65ec45b6db9bf987e047   ObjectId("65ec45b6db9bf987e047
cc85"),                              cc87"),                          cc89"),
        "id" : "21",                         "id" : "23",                     "id" : "25",
        "product_name" : "Unbranded          "product_name" : "Intelligent    "product_name" : "Licensed
Granite Chicken",                    Steel Pizza",                    Steel Car",
        "product_price" : 90,                "product_price" : 95,            "product_price" : 20,
        "product_material" : "Metal",        "product_material" : "Cotton",   "product_material" : "Cotton",
        "product_color" : "gold"}            "product_color" : "azure"}       "product_color" : "indigo"
{                                                                     }


{

        "_id" : ObjectId("65ec45b6db9bf987e047cc84"),

"id": "20",
"product_name": "Handcrafted Wooden Bacon",
        "product_price": 36.00,
        "product_material": "Concrete",
        "product_color": "lime"
    }
```

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

The query displayed 3 documnents Only

QUERY

db.product.find({ "product_price": { $gt: 500 } }).limit(4).pretty();

Output

```
{                                    {                                {
        "_id" :                              "_id" :                          "_id" :
ObjectId("65ec45b6db9bf987e047       ObjectId("65ec45b6db9bf987e047   ObjectId("65ec45b6db9bf987e047
cc71"),                              cc72"),                          cc73"),
        "id" : "1",                          "id" : "2",                      "id" : "3",
        "product_name" : "Intelligent        "product_name" : "Practical      "product_name" : "Refined
Fresh Chips",                        Fresh Sausages",                 Steel Car",
        "product_price" : 655,               "product_price" : 911,           "product_price" : 690,
        "product_material" :                 "product_material" :             "product_material" :
"Concrete",                          "Cotton",                        "Rubber",
        "product_color" : "mint              "product_color" : "indigo"       "product_color" : "gold"
green"                               }                                }
}
```

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

All the documents with _id, product_name, product price are displayed

QUERY

db.product.find({}, { "product_name" : 1, "product_price": 1 }).pretty();

Output

```
{
    "_id" : ObjectId("65ec45b6db9bf987e047cc71"),
    "product_name" : "Intelligent Fresh Chips",
    "product_price" : 655
}


{
    "_id" : ObjectId("65ec45b6db9bf987e047cc72"),
    "product_name" : "Practical Fresh Sausages",
    "product_price" : 911
}
```

```
{
    "_id" : ObjectId("65ec45b6db9bf987e047cc73"),
    "product_name" : "Refined Steel Car",
    "product_price" : 690
}


{
    "_id" : ObjectId("65ec45b6db9bf987e047cc74"),
    "product_name" : "Gorgeous Plastic Pants",
    "product_price" : 492
}
```

6.Find the product with a row id of 10

QUERY

db.product.findOne({ id: "10" });

Output

```
{
    "_id" : ObjectId("65ec45b6db9bf987e047cc7a"),
    "id" : "10",
    "product_name" : "Generic Wooden Pizza",
    "product_price" : 84,
    "product_material" : "Frozen",
    "product_color" : "indigo"
}
```

7.Find only the product name and product material

All the documents with product_name,product material are displayed

QUERY

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

Output

```
{                                              {
    "product_name" : "Intelligent Fresh Chips",    "product_name" : "Practical Fresh Sausages",
    "product_material" : "Concrete"                "product_material" : "Cotton"
}                                              }
```

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

QUERY

db.product.find({ "product_material" : "Soft" }).pretty();

Output

```
{                                              {
    "_id" : ObjectId("65ed4f9d70fa9831e5b5045e"),   "_id" : ObjectId("65ed4f9d70fa9831e5b50465"),
    "id" : "4",                                    "id" : "11",
    "product_name" : "Gorgeous Plastic Pants",     "product_name" : "Unbranded Wooden Cheese",
    "product_price" : 492,                         "product_price" : 26,
    "product_material" : "Soft",                   "product_material" : "Soft",
    "product_color" : "plum"                       "product_color" : "black"
}                                              }
{                                              {
    "_id" : ObjectId("65ed4f9d70fa9831e5b50463"),   "_id" : ObjectId("65ed4f9d70fa9831e5b5046d"),
    "id" : "9",                                    "id" : "19",
    "product_name" : "Awesome Wooden Ball",        "product_name" : "Intelligent Cotton Chips",
    "product_price" : 28,                          "product_price" : 46,
    "product_material" : "Soft",                   "product_material" : "Soft",
    "product_color" : "azure"                      "product_color" : "azure"
}                                              }
```

9.Find products which contain product color indigo and product price 492.00
It shows the product with color Indigo and Product with price 492

QUERY
db.product.find({ $or: [{ "product_price": 492.0 }, { "product_color": "indigo" }] }).pretty();

Output

```
{
    "_id" : ObjectId("65ed4ed370fa9831e5b5042a"),
    "id" : "2",
    "product_name" : "Practical Fresh Sausages",
    "product_price" : 911,
    "product_material" : "Cotton",
    "product_color" : "indigo"
}
{
    "_id" : ObjectId("65ed4ed370fa9831e5b5042c"),
    "id" : "4",
    "product_name" : "Gorgeous Plastic Pants",
    "product_price" : 492,
    "product_material" : "Soft",
    "product_color" : "plum"
}
```

{
    "_id" : ObjectId("65ed4ed370fa9831e5b50432"),
    "id" : "10",
    "product_name" : "Generic Wooden Pizza",
    "product_price" : 84,
    "product_material" : "Frozen",
    "product_color" : "indigo"
}

{
    "_id" : ObjectId("65ed4ed370fa9831e5b50439"),
    "id" : "17",
    "product_name" : "Incredible Metal Car",
    "product_price" : 36,
    "product_material" : "Fresh",
    "product_color" : "indigo"
}

{

{
    "_id" : ObjectId("65ed4ed370fa9831e5b50441"),
    "id" : "25",
    "product_name" : "Licensed Steel Car",
    "product_price" : 20,
    "product_material" : "Cotton",
    "product_color" : "indigo"
}

10.Delete the products which product price value are same

Only documents that do not have same price are displayed

QUERY

db.product.aggregate ([{
   $group : {_id :"$product_price",count:{$sum :1} }},
{
   $match : {count :{$gt :1}}
}]).forEach(function(data)
    {db.product.deleteMany({"product_price" :data._id})
})
db.product.count(); 21 -> documents are in the collections