MongoDB Day 1

1) Find all the information about each products? Ans: db.products.find().pretty()

```
db.products.find().pretty()
      "_id" : ObjectId("65df53bf45806e8457f0e8e3"),
      "id" : "1",
      "product_name" : "Intelligent Fresh Chips",
      "product_price" : 655,
      "product_material" : "Concrete",
      "product_color" : "mint green"
      "_id" : ObjectId("65df53bf45806e8457f0e8e4"),
      "id" : "2",
      "product_name" : "Practical Fresh Sausages",
      "product_price" : 911,
      "product_material" : "Cotton",
      "product_color" : "indigo"
      "_id" : ObjectId("65df53bf45806e8457f0e8e5"),
      "id" : "3",
      "product_name" : "Refined Steel Car",
      "product_price" : 690,
      "product_material" : "Rubber",
      "product_color" : "gold"
```

2) Find the product price which are between 400 to 800? Ans: db.products.find({product_price:{\$gt:400,\$lt:800}}).pretty()

```
> db.products.find({product_price:{$gt:400,$lt:800}}).pretty()
{
    "_id" : ObjectId("65df53bf45806e8457f0e8e3"),
    "id" : "1",
    "product_name" : "Intelligent Fresh Chips",
    "product_price" : 655,
    "product_material" : "Concrete",
    "product_color" : "mint green"
}
{
    "_id" : ObjectId("65df53bf45806e8457f0e8e5"),
    "id" : "3",
    "product_name" : "Refined Steel Car",
    "product_price" : 690,
    "product_material" : "Rubber",
    "product_color" : "gold"
}
```

3) Find the product price which are not between 400 to 600? Ans: db.products.find({product_price:{\$not:{\$gte:400,\$lte:600}}}).pretty()

```
> db.products.find({product_price:{$not:{$gte:400,$lte:600}}}).pretty()
         "_id" : ObjectId("65df53bf45806e8457f0e8e3"),
        "id" : "1",
         "product_name" : "Intelligent Fresh Chips",
         "product_price" : 655,
        "product_material" : "Concrete",
        "product_color" : "mint green"
{
         "_id" : ObjectId("65df53bf45806e8457f0e8e4"),
        "id" : "2",
        "product_name" : "Practical Fresh Sausages",
        "product_price" : 911,
"product_material" : "Cotton",
         "product_color" : "indigo"
مه به
         "_id" : ObjectId("65df53bf45806e8457f0e8e5"),
        "id" : "3",
```

4) List the four product which are grater than 500 in price? Ans: db.products.find({product price:{\$gt:500}}).limit(4).pretty()

```
> db.products.find({product_price:{$qt:500}}).limit(4).pretty()
        "_id" : ObjectId("65df53bf45806e8457f0e8e3"),
        "id" : "1",
        "product_name" : "Intelligent Fresh Chips",
        "product_price" : 655,
        "product_material" : "Concrete",
        "product_color" : "mint green"
لماء ليام
        "_id" : ObjectId("65df53bf45806e8457f0e8e4"),
        "id" : "2",
        "product_name" : "Practical Fresh Sausages",
        "product_price" : 911,
        "product_material" : "Cotton",
        "product_color" : "indigo"
{
        "_id" : ObjectId("65df53bf45806e8457f0e8e5"),
        "id" : "3",
        "product_name" : "Refined Steel Car",
        "product_price" : 690,
        "product_material" : "Rubber",
        "product color" : "gold"
```

5) Find the product name and product material of each products? Ans: db.products.find({},{product name:1,product material:1}).pretty()

```
@(shell):1:3
> db.products.find({},{product_name:1,product_material:1}).pretty()
{
        "_id" : ObjectId("65df53bf45806e8457f0e8e3"),
        "product_name" : "Intelligent Fresh Chips",
        "product_material" : "Concrete"
}
{
        "_id" : ObjectId("65df53bf45806e8457f0e8e4"),
        "product_name" : "Practical Fresh Sausages",
        "product_material" : "Cotton"
}
{
        "_id" : ObjectId("65df53bf45806e8457f0e8e5"),
        "product_name" : "Refined Steel Car",
        "product_material" : "Rubber"
}
{
        "_id" : ObjectId("65df53bf45806e8457f0e8e6"),
        "product_name" : "Gorgeous Plastic Pants",
        "product_material" : "Soft"
}
```

6) Find the product with a row id of 10?

Ans: db.products.find({id:{\$eq:"10"}}).pretty() (OR) db.products.find({id:"10"}).pretty()

```
> db.products.find({id:"10"}).pretty()
£
        "_id" : ObjectId("65df53bf45806e8457f0e8ec"),
        "id" : "10",
        "product_name" : "Generic Wooden Pizza",
        "product_price" : 84,
        "product_material" : "Frozen",
        "product_color" : "indigo"
> db.products.find({id:{$eq:"10"}}).pretty()
 {
         "_id" : ObjectId("65df53bf45806e8457f0e8ec"),
         "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?
Ans: db.products.find({},{product_name:1,product_material:1,id:0}).pretty()

```
> db.products.find({},{product_name:1,product_material:1,_id:0}).pretty()
{
         "product_name" : "Intelligent Fresh Chips",
         "product_material" : "Concrete"
}
{
         "product_name" : "Practical Fresh Sausages",
         "product_material" : "Cotton"
}
```

8) Find all products which contain the value of soft in product material? Ans: db.products.find({product material: 'Soft'}).pretty()

```
> db.products.find({product_material: 'Soft'}).pretty()
{
    "_id" : ObjectId("65df53bf45806e8457f0e8e6"),
    "id" : "4",
    "product_name" : "Gorgeous Plastic Pants",
    "product_price" : 492,
    "product_material" : "Soft",
    "product_color" : "plum"
}
{
    "_id" : ObjectId("65df53bf45806e8457f0e8eb"),
    "id" : "9",
    "product_name" : "Awesome Wooden Ball",
    "product_price" : 28,
    "product_material" : "Soft",
    "product_color" : "azure"
}
{
    "_id" : ObjectId("65df53bf45806e8457f0e8ed"),
    "id" : "11",
```

9) Find products which contain product color indigo and product price 492.00? Ans:db.products.find({\$or:[{product_color:'indigo'},{product__price:'492.00'}]}).pretty()

```
db.products.find({$or:[{product_color:'indigo'},{product__price:'492.00'}]}).pretty()
           "_id" : ObjectId("65df53bf45806e8457f0e8e4"),
           "id" : "2",
           "product_name" : "Practical Fresh Sausages",
           "product_price" : 911,
"product_material" : "Cotton",
"product_color" : "indigo"
کیا کی
           "_id" : ObjectId("65df53bf45806e8457f0e8ec"),
           "id" : "10",
           "product_name" : "Generic Wooden Pizza",
           "product_price" : 84,
"product_material" : "Frozen",
"product_color" : "indigo"
کار کار
           "_id" : ObjectId("65df53bf45806e8457f0e8f3"),
           "id" : "17",
           "product_name" : "Incredible Metal Car",
           "product_price" : 36,
"product_material" : "Fresh",
"product_color" : "indigo"
           "_id" : ObjectId("65df53bf45806e8457f0e8fb"),
          "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.?
Answer:
db.products.aggregate([
  $group: {
   id: "$product price",
   count: { $sum: 1 },
   ids: { $push: "$ id" }
  }
 },
  $match: {
   count: { $gt: 1 }
  }
]).forEach(function(doc) {
 doc.ids.shift();
 db.products.deleteMany({ id: {$in: doc.ids}});
print("Documents with duplicate product prices have been deleted successfully.");
```