MongoDB Day 1

Product JSON:

https://github.com/rvsp/database/blob/master/mongodb/product.json

For the following question write the corresponding MongoDB queries

1) Find all the information about each products?

```
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"
```

Solution: db.products.find().pretty()

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

```
> 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"
}
```

Solution: db.products.find({product price:{\$gt:400,\$lt:800}}).pretty()

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

```
> 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"
}
{
        "_id" : ObjectId("65df53bf45806e8457f0e8e5"),
        "id" : "3".
```

Solution: db.products.find({product price:{\$not:{\$gte:400,\$lte:600}}}).pretty()

4) List the four product which are grater than 500 in price?

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

Solution: db.products.find({product_price:{\$gt:500}}).limit(4).pretty()

5) Find the product name and product material of each products?

```
@(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_name" : "Rubber"
}
{
        "_id" : ObjectId("65df53bf45806e8457f0e8e6"),
        "product_name" : "Gorgeous Plastic Pants",
        "product_material" : "Soft"
}
```

Solution: db.products.find({},{product name:1,product material:1}).pretty()

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

```
> 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"
}
> |
```

Solution: db.products.find({id:"10"}).pretty()

7) Find only the product name and product material?

```
> 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"
}
```

Solution: db.products.find({},{product name:1,product material:1,id:0}).pretty()

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

```
> 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",
```

Solution: db.products.find({product material: 'Soft'}).pretty()

9) Find products which contain product color indigo and product price 492.00?

```
db.products.find({$or:[{product_color:'indigo'}, {product__price:'492.00'}]}).pretty()
{
    "_id" : ObjectId("65df53bf45806e8457f0e8e4"),
    "id" : "2",
    "product_name" : "Practical Fresh Sausages",
    "product_material" : "Cotton",
    "product_material" : "Cotton",
    "product_color" : "indigo"
}
{
    "_id" : ObjectId("65df53bf45806e8457f0e8ec"),
    "id" : "10",
    "product_name" : "Generic Wooden Pizza",
    "product_price" : 84,
    "product_color" : "indigo"
}
{
    "_id" : ObjectId("65df53bf45806e8457f0e8f3"),
    "id" : "17",
    "product_color" : "indigo"
}
{
    "_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_name" : "Licensed Steel Car",
    "product_material" : "Cotton",
    "product
```

Solution:

db.products.find({\$or:[{product color:'indigo'},{product price:'492.00'}]}).pretty()

10) Delete the products which product price value are same.?