MongoDB queries

Question1: Find all the information about each product.

Solution: db.products.find();

```
>_MONGOSH
< switched to db Mongodb_day1
> db.products.find()
< {
    _id: ObjectId('666d989054d8a3a5e5ac13f6'),
    id: '1',
    product_name: 'Intelligent Fresh Chips',
    product_price: 655,
    product_material: 'Concrete',
    product_color: 'mint green'
  }
  {
    _id: ObjectId('666d989054d8a3a5e5ac13f7'),
    id: '2',
    product_name: 'Practical Fresh Sausages',
    product_price: 911,
    product_material: 'Cotton',
    product_color: 'indigo'
  }
  {
    _id: ObjectId('666d989054d8a3a5e5ac13f8'),
    id: '3',
    product_name: 'Refined Steel Car',
    product_price: 690,
    product_material: 'Rubber',
    product_color: 'gold'
  }
  {
```

Question2: Find the product price which are between 400 to 800

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

```
>_MONGOSH
 }
 Type "it" for more
> db.products.find({product_price:{$gte:400,$lte:800}})
< {
    _id: ObjectId('666d989054d8a3a5e5ac13f6'),
    id: '1',
    product_name: 'Intelligent Fresh Chips',
    product_price: 655,
    product_material: 'Concrete',
    product_color: 'mint green'
  }
  {
    _id: ObjectId('666d989054d8a3a5e5ac13f8'),
    id: '3',
    product_name: 'Refined Steel Car',
    product_price: 690,
    product_material: 'Rubber',
    product_color: 'gold'
  }
  {
    _id: ObjectId('666d989054d8a3a5e5ac13f9'),
    id: '4',
    product_name: 'Gorgeous Plastic Pants',
    product_price: 492,
    product_material: 'Soft',
    product_color: 'plum'
  }
  {
    _id: ObjectId('666d989054d8a3a5e5ac13fb'),
    id: '6',
    product_name: 'Awesome Wooden Towels',
    product_price: 474,
    product_material: 'Plastic',
    product_color: 'orange'
  }
  {
```

Question 3: **Find the product price which are not between 400 to 600.**

Solution: db.products.find({product_price:{$not:{$gt:400,$lt:600}}});

```
>_MONGOSH
    product_color: 'pink'
  }
> db.products.find({$or:[{product_price:{$gt:600}},{product_price:{$lt:400}}]})
< {
    _id: ObjectId('666d989054d8a3a5e5ac13f6'),
    id: '1',
    product_name: 'Intelligent Fresh Chips',
    product_price: 655,
    product_material: 'Concrete',
    product_color: 'mint green'
  }
  {
    _id: ObjectId('666d989054d8a3a5e5ac13f7'),
    id: '2',
    product_name: 'Practical Fresh Sausages',
    product_price: 911,
    product_material: 'Cotton',
    product_color: 'indigo'
  }
  {
    _id: ObjectId('666d989054d8a3a5e5ac13f8'),
    id: '3',
    product_name: 'Refined Steel Car',
    product_price: 690,
    product_material: 'Rubber',
    product_color: 'gold'
  }
  {
    _id: ObjectId('666d989054d8a3a5e5ac13fa'),
    id: '5',
    product_name: 'Sleek Cotton Chair',
    product_price: 33,
    product_material: 'Fresh',
    product_color: 'black'
  }
  {
```

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

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

```
>_MONGOSH

> db.products.find({product_price:{$gt:500}}).limit(4)
< {
    _id: ObjectId('666d989054d8a3a5e5ac13f6'),
    id: '1',
    product_name: 'Intelligent Fresh Chips',
    product_price: 655,
    product_material: 'Concrete',
    product_color: 'mint green'
  }
  {
    _id: ObjectId('666d989054d8a3a5e5ac13f7'),
    id: '2',
    product_name: 'Practical Fresh Sausages',
    product_price: 911,
    product_material: 'Cotton',
    product_color: 'indigo'
  }
  {
    _id: ObjectId('666d989054d8a3a5e5ac13f8'),
    id: '3',
    product_name: 'Refined Steel Car',
    product_price: 690,
    product_material: 'Rubber',
    product_color: 'gold'
  }
Atlas atlas-11wkw7-shard-0 [primary] Mongodb_day1>
```

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

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

```
>_MONGOSH
> db.products.find().forEach((pro) => {
    print("Product Name: " + pro.product_name);
    print("Product Material: " + pro.product_material);
  })
< 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
< Product Name: Unbranded Wooden Cheese
< Product Material: Soft
```

Question 6: **Find the product with a row id of 10.**

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

```
> db.products.find({id:"10"})
< {
    _id: ObjectId('666d989054d8a3a5e5ac13ff'),
    id: '10',
    product_name: 'Generic Wooden Pizza',
    product_price: 84,
    product_material: 'Frozen',
    product_color: 'indigo'
  }
Atlas atlas-11wkw7-shard-0 [primary] Mongodb_day1>
```

Question 7: Find only the product name and product material

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

```
>_MONGOSH
> db.products.find().forEach((pro) => {
    print("Product Name: " + pro.product_name);
    print("Product Material: " + pro.product_material);
  })
< 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
< Product Name: Unbranded Wooden Cheese
< Product Material: Soft
```

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

Solution: db.products.find({ "product_material": /soft/i });

```
> db.products.find({product_material:'Soft'})
< {
    _id: ObjectId('666d989054d8a3a5e5ac13f9'),
    id: '4',
    product_name: 'Gorgeous Plastic Pants',
    product_price: 492,
    product_material: 'Soft',
    product_color: 'plum'
  }
  {
    _id: ObjectId('666d989054d8a3a5e5ac13fe'),
    id: '9',
    product_name: 'Awesome Wooden Ball',
    product_price: 28,
    product_material: 'Soft',
    product_color: 'azure'
  }
  {
    _id: ObjectId('666d989054d8a3a5e5ac1400'),
    id: '11',
    product_name: 'Unbranded Wooden Cheese',
    product_price: 26,
    product_material: 'Soft',
    product_color: 'black'
  }
  {
    _id: ObjectId('666d989054d8a3a5e5ac1408'),
    id: '19',
    product_name: 'Intelligent Cotton Chips',
    product_price: 46,
    product_material: 'Soft',
    product_color: 'azure'
  }
Atlas atlas-11wkw7-shard-0 [primary] Mongodb_day1>
```

Question 9: Find products which contain product color indigo and product price 492.00

Solution: db.products({ "product_color": "indigo", "product_price": 492.00 })

Question 10: Delete the products which product price value are same

Solution:
db.products.aggregate([{$group:{_id:'$product_price',count:{$sum:1}}},
{$match: {count : {$gt: 1}}}]).forEach((e) =>
{db.products.deleteMany({product_price: e._id})});