1.Find all the information about each products

```
> db.product.find().pretty()
{
        "_id" : ObjectId("5fa149f6e31dc2bd805170ee"),
        "id" : "1",
        "product_name" : "Intelligent Fresh Chips",
        "product_price" : 655,
        "product_material" : "Concrete",
        "product_color" : "mint green"
}
{
        "_id" : ObjectId("5fa149f6e31dc2bd805170ef"),
        "id" : "2",
        "product_name" : "Practical Fresh Sausages",
        "product_price" : 911,
        "product_material" : "Cotton",
        "product_color" : "indigo"
}
{
        "_id" : ObjectId("5fa149f6e31dc2bd805170f0"),
        "id" : "3",
        "product_name" : "Refined Steel Car",
        "product_price" : 690,
        "product_material" : "Rubber",
        "product_color" : "gold"
}
{
        "_id" : ObjectId("5fa149f6e31dc2bd805170f1"),
        "id" : "4",
        "product_name" : "Gorgeous Plastic Pants",
        "product_price" : 492,
        "product_material" : "Soft",
        "product_color" : "plum"
}
```

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

```
> db.product.find(
...        {
...              "product_price": {$gt: 399, $lt: 801}
...        }
... ).pretty();
{
        "_id" : ObjectId("5fa149f6e31dc2bd805170ee"),
        "id" : "1",
        "product_name" : "Intelligent Fresh Chips",
        "product_price" : 655,
        "product_material" : "Concrete",
        "product_color" : "mint green"
}
{
        "_id" : ObjectId("5fa149f6e31dc2bd805170f0"),
        "id" : "3",
        "product_name" : "Refined Steel Car",
        "product_price" : 690,
        "product_material" : "Rubber",
        "product_color" : "gold"
}
{
        "_id" : ObjectId("5fa149f6e31dc2bd805170f1"),
        "id" : "4",
        "product_name" : "Gorgeous Plastic Pants",
        "product_price" : 492,
        "product_material" : "Soft",
        "product_color" : "plum"
}
{
        "_id" : ObjectId("5fa149f6e31dc2bd805170f3"),
        "id" : "6",
        "product_name" : "Awesome Wooden Towels",
        "product_price" : 474,
        "product_material" : "Plastic",
        "product_color" : "orange"
}
{
        "_id" : ObjectId("5fa149f6e31dc2bd805170f4"),
        "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

```
> db.product.find(
...      {
...           "product_price": { $not :{
...               $gte: 400, $lte: 600
...               }
...           }
...      }
... ).pretty()
{
        "_id" : ObjectId("5fa149f6e31dc2bd805170ee"),
        "id" : "1",
        "product_name" : "Intelligent Fresh Chips",
        "product_price" : 655,
        "product_material" : "Concrete",
        "product_color" : "mint green"
}
{
        "_id" : ObjectId("5fa149f6e31dc2bd805170ef"),
        "id" : "2",
        "product_name" : "Practical Fresh Sausages",
        "product_price" : 911,
        "product_material" : "Cotton",
        "product_color" : "indigo"
}
{
        "_id" : ObjectId("5fa149f6e31dc2bd805170f0"),
        "id" : "3",
        "product_name" : "Refined Steel Car",
        "product_price" : 690,
        "product_material" : "Rubber",
```

4.List the four products which are grater than 500 in price

```
> db.product.find(
...       {
...             "product_price": {$gt: 500}
...       }
... ).limit(4).pretty()
{
        "_id" : ObjectId("5fa149f6e31dc2bd805170ee"),
        "id" : "1",
        "product_name" : "Intelligent Fresh Chips",
        "product_price" : 655,
        "product_material" : "Concrete",
        "product_color" : "mint green"
}
{
        "_id" : ObjectId("5fa149f6e31dc2bd805170ef"),
        "id" : "2",
        "product_name" : "Practical Fresh Sausages",
        "product_price" : 911,
        "product_material" : "Cotton",
        "product_color" : "indigo"
}
{
        "_id" : ObjectId("5fa149f6e31dc2bd805170f0"),
        "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

```
> db.product.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"
}
{ "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" }
{ "product_name" : "Unbranded Plastic Salad", "product_material" : "Wooden" }
{
        "product_name" : "Gorgeous Cotton Keyboard",
        "product_material" : "Concrete"
}
{ "product_name" : "Incredible Steel Shirt", "product_material" : "Metal" }
{ "product_name" : "Ergonomic Cotton Hat", "product_material" : "Rubber" }
{ "product_name" : "Small Soft Chair", "product_material" : "Cotton" }
{ "product_name" : "Incredible Metal Car", "product_material" : "Fresh" }
{ "product_name" : "Licensed Plastic Bacon", "product_material" : "Steel" }
{ "product_name" : "Intelligent Cotton Chips", "product_material" : "Soft" }
{
        "product_name" : "Handcrafted Wooden Bacon",
        "product_material" : "Concrete"
}
Type "it" for more
>
```

6.Find the product with a row id of 10

```
> db.product.find({id: '10'}
... ).pretty();
{
        "_id" : ObjectId("5fa149f6e31dc2bd805170f7"),
        "id" : "10",
        "product_name" : "Generic Wooden Pizza",
        "product_price" : 84,
        "product_material" : "Frozen",
        "product_color" : "indigo"
}
>
```

7.Findonly the product name and product material

```
> db.product.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"
}
{ "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" }
{ "product_name" : "Unbranded Plastic Salad", "product_material" : "Wooden" }
{
        "product_name" : "Gorgeous Cotton Keyboard",
        "product_material" : "Concrete"
}
{ "product_name" : "Incredible Steel Shirt", "product_material" : "Metal" }
{ "product_name" : "Ergonomic Cotton Hat", "product_material" : "Rubber" }
{ "product_name" : "Small Soft Chair", "product_material" : "Cotton" }
{ "product_name" : "Incredible Metal Car", "product_material" : "Fresh" }
{ "product_name" : "Licensed Plastic Bacon", "product_material" : "Steel" }
{ "product_name" : "Intelligent Cotton Chips", "product_material" : "Soft" }
{
        "product_name" : "Handcrafted Wooden Bacon",
        "product_material" : "Concrete"
}
Type "it" for more
>
```

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

```
Command Prompt - mongo
> db.product.find({product_material: {$in : ['Soft']}}
... ).pretty();
{
        "_id" : ObjectId("5fa149f6e31dc2bd805170f1"),
        "id" : "4",
        "product_name" : "Gorgeous Plastic Pants",
        "product_price" : 492,
        "product_material" : "Soft",
        "product_color" : "plum"
}
{
        "_id" : ObjectId("5fa149f6e31dc2bd805170f6"),
        "id" : "9",
        "product_name" : "Awesome Wooden Ball",
        "product_price" : 28,
        "product_material" : "Soft",
        "product_color" : "azure"
}
{
        "_id" : ObjectId("5fa149f6e31dc2bd805170f8"),
        "id" : "11",
        "product_name" : "Unbranded Wooden Cheese",
        "product_price" : 26,
        "product_material" : "Soft",
        "product_color" : "black"
}
{
        "_id" : ObjectId("5fa149f6e31dc2bd80517100"),
        "id" : "19",
        "product_name" : "Intelligent Cotton Chips",
        "product_price" : 46,
        "product_material" : "Soft",
        "product_color" : "azure"
}
>
```

9.Find products which contain product color indigo and product price 492.00

No matches found !

```
Command Prompt - mongo
> db.product.find({product_price: 492,
...      product_color: "Indigo"}
... ).pretty();
>
```

10.Delete the products which product price value are same

```
Command Prompt - mongo
> db.product.find().count();
25
>  db.product.aggregate([{$match: {}},
...      {$group: {_id: { price: '$product_price'},
...                product_ids: { $addToSet: "$id" },
...                count: {$sum: 1}
...                }
...      },
...      {$match:{
...              count:{$gte: 2}
...              }
...      }
... ]).forEach(row => {
...      print("Products Having duplicate prices: ", row.product_ids);
...      row.product_ids.shift();
...      print("Gonna remove the following Product ids: ", row.product_ids);
...      db.product.remove({
...          id: {
...              $in: row.product_ids
...          }
...      })
... });
Products Having duplicate prices:  17,20
Gonna remove the following Product ids:  20
Products Having duplicate prices:  16,24
Gonna remove the following Product ids:  24
> db.product.find().count();
23
>
```