```
use Products(to create the dataBase)
db.products.insertMany([[
 {
    "id": "1",
    "product_name": "Intelligent Fresh Chips",
    "product_price": 655.00,
    "product_material": "Concrete",
    "product_color": "mint green"
  },
  {
    "id": "2",
    "product_name": "Practical Fresh Sausages",
    "product_price": 911.0,
    "product_material": "Cotton",
    "product_color": "indigo"
  },
  {
    "id": "3",
    "product_name": "Refined Steel Car",
    "product_price": 690.00,
    "product_material": "Rubber",
    "product_color": "gold"
  },
  {
    "id": "4",
    "product_name": "Gorgeous Plastic Pants",
    "product_price": 492.00,
```

```
"product_material": "Soft",
  "product_color": "plum"
},
{
  "id": "5",
  "product_name": "Sleek Cotton Chair",
  "product_price": 33.00,
  "product_material": "Fresh",
  "product_color": "black"
},
{
  "id": "6",
  "product_name": "Awesome Wooden Towels",
  "product_price": 474.00,
  "product_material": "Plastic",
  "product_color": "orange"
},
{
  "id": "7",
  "product_name": "Practical Soft Shoes",
  "product_price": 500.00,
  "product_material": "Rubber",
  "product_color": "pink"
},
{
  "id": "8",
  "product_name": "Incredible Steel Hat",
  "product_price": 78.00,
  "product_material": "Rubber",
  "product_color": "violet"
},
```

```
{
  "id": "9",
  "product_name": "Awesome Wooden Ball",
  "product_price": 28.00,
  "product_material": "Soft",
  "product_color": "azure"
},
{
  "id": "10",
  "product_name": "Generic Wooden Pizza",
  "product_price": 84.00,
  "product_material": "Frozen",
  "product_color": "indigo"
},
{
  "id": "11",
  "product_name": "Unbranded Wooden Cheese",
  "product_price":26.00,
  "product_material": "Soft",
  "product_color": "black"
},
{
  "id": "12",
  "product_name": "Unbranded Plastic Salad",
  "product_price": 89.00,
  "product_material": "Wooden",
  "product_color": "pink"
},
{
  "id": "13",
  "product_name": "Gorgeous Cotton Keyboard",
```

```
"product_price": 37.00,
  "product_material": "Concrete",
  "product_color": "sky blue"
},
{
  "id": "14",
  "product_name": "Incredible Steel Shirt",
  "product_price": 54.00,
  "product_material": "Metal",
  "product_color": "white"
},
{
  "id": "15",
  "product_name": "Ergonomic Cotton Hat",
  "product_price": 43.00,
  "product_material": "Rubber",
  "product_color": "mint green"
},
{
  "id": "16",
  "product_name": "Small Soft Chair",
  "product_price": 47.00,
  "product_material": "Cotton",
  "product_color": "teal"
},
{
  "id": "17",
  "product_name": "Incredible Metal Car",
  "product_price":36.00,
  "product_material": "Fresh",
  "product_color": "indigo"
```

```
},
{
  "id": "18",
  "product_name": "Licensed Plastic Bacon",
  "product_price":88.00,
  "product_material": "Steel",
  "product_color": "yellow"
},
{
  "id": "19",
  "product_name": "Intelligent Cotton Chips",
  "product_price": 46.00,
  "product_material": "Soft",
  "product_color": "azure"
},
{
  "id": "20",
  "product_name": "Handcrafted Wooden Bacon",
  "product_price": 36.00,
  "product_material": "Concrete",
  "product_color": "lime"
},
{
  "id": "21",
  "product_name": "Unbranded Granite Chicken",
  "product_price": 90.00,
  "product_material": "Metal",
  "product_color": "gold"
},
{
  "id": "22",
```

```
"product_name": "Ergonomic Soft Hat",
    "product_price": 99.00,
    "product_material": "Rubber",
    "product_color": "black"
  },
  {
    "id": "23",
    "product_name": "Intelligent Steel Pizza",
    "product_price": 95.00,
    "product_material": "Cotton",
    "product_color": "azure"
  },
  {
    "id": "24",
    "product_name": "Tasty Rubber Cheese",
    "product_price":47.00,
    "product_material": "Frozen",
    "product_color": "orchid"
  },
  {
    "id": "25",
    "product_name": "Licensed Steel Car",
    "product_price":20.00,
    "product_material": "Cotton",
    "product_color": "indigo"
  }
]])
```

explanation: returns all the the information in the collection

```
db.products.find()
< { _id: ObjectId("63329b35152246fe6d5525d1"),</pre>
   product_name: 'Intelligent Fresh Chips',
   product material: 'Concrete',
   product color: 'mint green' }
 { _id: ObjectId("63329b35152246fe6d5525d2"),
   id: '2',
   product_name: 'Practical Fresh Sausages',
   product color: 'indigo' }
 { id: ObjectId("63329b35152246fe6d5525d3"),
   product name: 'Refined Steel Car',
   product_material: 'Rubber',
 { id: ObjectId("63329b35152246fe6d5525d4"),
   product_name: 'Gorgeous Plastic Pants',
   product material: 'Soft',
  { _id: ObjectId("63329b35152246fe6d5525d5"),
   id: '5'.
```

2)Find the product price which are between 400 to 800 query:db.products.find({"roduct_price":{\$gte:400,\$lte:800}}) explanation:returns the objects between price range of 400 and 800

```
db.products.find( {"product_price": {$gte: 400, $lte: 800}})
{ id: ObjectId("63329b35152246fe6d5525d1"),
  id: '1',
 product_name: 'Intelligent Fresh Chips',
  product material: 'Concrete',
  product_color: 'mint green' }
{ _id: ObjectId("63329b35152246fe6d5525d3"),
  id: '3',
  product_material: 'Rubber',
{ id: ObjectId("63329b35152246fe6d5525d4"),
  id: '4',
  product name: 'Gorgeous Plastic Pants',
{ _id: ObjectId("63329b35152246fe6d5525d6"),
  id: '6',
  product_name: 'Awesome Wooden Towels',
  product material: 'Plastic',
  product_color: 'orange' }
{ id: ObjectId("63329b35152246fe6d5525d7"),
```

3)Find the product price which are not between 400 to 600 query:db.products.find({\$or:[{"product_price":{\$lte:400}},{"product_price":{\$gte:600}}]}) explanation:returns the objects between price not in range of 400 and 600

```
db.products.find({\$or:[{"product_price":{\$lte:400}},{"product_price":{\$gte:600}}]}
{ _id: ObjectId("63329b35152246fe6d5525d1"),
 id: '1',
 product_name: 'Intelligent Fresh Chips',
 product color: 'mint green' }
{ _id: ObjectId("63329b35152246fe6d5525d2"),
 id: '2',
 product name: 'Practical Fresh Sausages',
 product material: 'Cotton',
{ _id: ObjectId("63329b35152246fe6d5525d3"),
 id: '3',
 product_material: 'Rubber',
{ _id: ObjectId("63329b35152246fe6d5525d5"),
 id: '5',
 product material: 'Fresh',
{ id: ObjectId("63329b35152246fe6d5525d8"),
```

4)List the four product which are grater than and equal 500 in price query:db.products.find({"product_price":{\$gte:500}}).limit(4) explanation:returns the objects four product which are grater than and equal 500 in price

```
db.products.find({"product price":{$gte:500}}).limit(4)
< { _id: ObjectId("63329b35152246fe6d5525d1"),</pre>
   id: '1',
   product name: 'Intelligent Fresh Chips',
   product material: 'Concrete',
   product color: 'mint green' }
  { _id: ObjectId("63329b35152246fe6d5525d2"),
   id: '2',
   product_name: 'Practical Fresh Sausages',
   product material: 'Cotton',
   product_color: 'indigo' }
  { id: ObjectId("63329b35152246fe6d5525d3"),
   id: '3',
   product_material: 'Rubber',
  { id: ObjectId("63329b35152246fe6d5525d7"),
   product_name: 'Practical Soft Shoes',
   product_material: 'Rubber',
   product color: 'pink' }
task1>
```

5)Find the product name and product material of each products query:db.products.find({},{"product_name": 1, "product_material": 1 ,"_id":0})

explanation:returns only name and price fields

```
> db.products.find({),("product_name": 1, "product_material": 1 ,"_id":0})

< { product_name: 'Intelligent Presh 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: 'Presh' }

{ 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_name: 'Generic Wooden Cheese',
    product_material: 'Soft' }

{ product_name: 'Unbranded Wooden Cheese',
    product_material: 'Soft' }

{ product_name: 'Unbranded Plastic Salad',
    product_material: 'Wooden' }
}</pre>
```

6) Find the product with a row id of 10

query:db.products.findOne({id:'10'})

explanation:returns only one object with row id 10

```
db.products.findOne({id:'10'})

{    _id: ObjectId("63329b35152246fe6d5525da"),
    id: '10',
    product_name: 'Generic Wooden Pizza',
    product_price: 84,
    product_material: 'Frozen',
    product_color: 'indigo' }

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```

7)Find only the product name and product material query:query:db.products.find({},{"product_name": 1, "product_material": 1,"_id":1}) explanation:returns only name and price fields

```
> db.products.find({},{"product_name": 1, "product_material": 1 ,"_id":1})
< { _id: ObjectId("63329b35152246fe6d5525d1"),</pre>
   product_name: 'Intelligent Fresh Chips',
 { id: ObjectId("63329b35152246fe6d5525d2"),
   product name: 'Practical Fresh Sausages',
 { id: ObjectId("63329b35152246fe6d5525d3"),
 { _id: ObjectId("63329b35152246fe6d5525d4"),
   product_name: 'Gorgeous Plastic Pants',
 { id: ObjectId("63329b35152246fe6d5525d5"),
   product name: 'Sleek Cotton Chair',
 { _id: ObjectId("63329b35152246fe6d5525d6"),
   product name: 'Awesome Wooden Towels',
   product material: 'Plastic' }
 { id: ObjectId("63329b35152246fe6d5525d7"),
   product name: 'Practical Soft Shoes',
   product material: 'Rubber' }
 { id: ObjectId("63329b35152246fe6d5525d8"),
   product_material: 'Rubber' }
 { _id: ObjectId("63329b35152246fe6d5525d9"),
                                                      O 📝 💆 🎯
```

8)Find all products which contain the value of soft in product material query:db.products.find({"product_material":"Soft"})

explanation:returns only object which has value of soft in product material

```
db.products.find({"product material":'Soft'})
< { _id: ObjectId("63329b35152246fe6d5525d4"),</pre>
   id: '4',
   product_name: 'Gorgeous Plastic Pants',
   product material: 'Soft',
   product_color: 'plum' }
  { id: ObjectId("63329b35152246fe6d5525d9"),
   id: '9',
   product_name: 'Awesome Wooden Ball',
 { _id: ObjectId("63329b35152246fe6d5525db"),
   product name: 'Unbranded Wooden Cheese',
   product material: 'Soft',
  { id: ObjectId("63329b35152246fe6d5525e3"),
   id: '19',
   product name: 'Intelligent Cotton Chips',
task1>
```

9)Find products which contain product color indigo and product price 20 query:db.products.find({\$and:[{"product_color":"indigo"},{"product_price":{\$eq:20}}]}) explanation:return only one product

```
product_color: 'indigo' }

> db.products.find({$and:[{"product_color":"indigo"},{"product_price":{$eq:20}}]})

< { _id: ObjectId("63329b35152246fe6d5525e9"),
    id: '25',
    product_name: 'Licensed Steel Car',
    product_price: 20,
    product_material: 'Cotton',
    product_color: 'indigo' }</pre>
```

10) Delete the products which product price value are same

```
query: db.products.aggregate([{$group:{_id:"$product_price",count: {$sum:
1}}}, {$match:{count:{"$gt":1}}}])

db.products.remove({"product_price":36})

db.products.remove({"product_price":47})
```