Mongo DB

1. Find all the information about each products
Solution: db.Product.find();
Op:
```
[
  {
    "_id": {
      "$oid": "699be7d03af1722a4a736900"
    },
    "id": "1",
    "product_name": "Intelligent Fresh Chips",
    "product_price": 655,
    "product_material": "Concrete",
    "product_color": "mint green"
  },
  {
    "_id": {
      "$oid": "699be8303af1722a4a736901"
    },
    "id": "2",
    "product_name": "Practical Fresh Sausages",
    "product_price": 911,
    "product_material": "Cotton",
    "product_color": "indigo"
  },
  {
    "_id": {
      "$oid": "699be8303af1722a4a736902"
    },
    "id": "3",
    "product_name": "Refined Steel Car",
    "product_price": 690,
    "product_material": "Rubber",
    "product_color": "gold"
  },
  {
    "_id": {
      "$oid": "699be8303af1722a4a736903"
    },
    "id": "4",
    "product_name": "Gorgeous Plastic Pants",
    "product_price": 492,
    "product_material": "Soft",
    "product_color": "plum"
  },
  {
    "_id": {
```

      "$oid": "699be8303af1722a4a736904"
    },
    "id": "5",
    "product_name": "Sleek Cotton Chair",
    "product_price": 33,
    "product_material": "Fresh",
    "product_color": "black"
  },
  {
    "_id": {
      "$oid": "699be8303af1722a4a736905"
    },
    "id": "6",
    "product_name": "Awesome Wooden Towels",
    "product_price": 474,
    "product_material": "Plastic",
    "product_color": "orange"
  },
  {
    "_id": {
      "$oid": "699be8303af1722a4a736906"
    },
    "id": "7",
    "product_name": "Practical Soft Shoes",
    "product_price": 500,
    "product_material": "Rubber",
    "product_color": "pink"
  },
  {
    "_id": {
      "$oid": "699be8303af1722a4a736907"
    },
    "id": "8",
    "product_name": "Incredible Steel Hat",
    "product_price": 78,
    "product_material": "Rubber",
    "product_color": "violet"
  },
  {
    "_id": {
      "$oid": "699be8303af1722a4a736908"
    },
    "id": "9",
    "product_name": "Awesome Wooden Ball",
    "product_price": 28,
    "product_material": "Soft",
    "product_color": "azure"
  },

```json
{
  "_id": {
    "$oid": "699be8303af1722a4a736909"
  },
  "id": "10",
  "product_name": "Generic Wooden Pizza",
  "product_price": 84,
  "product_material": "Frozen",
  "product_color": "indigo"
},
{
  "_id": {
    "$oid": "699be8303af1722a4a73690a"
  },
  "id": "11",
  "product_name": "Unbranded Wooden Cheese",
  "product_price": 26,
  "product_material": "Soft",
  "product_color": "black"
},
{
  "_id": {
    "$oid": "699be8303af1722a4a73690b"
  },
  "id": "12",
  "product_name": "Unbranded Plastic Salad",
  "product_price": 89,
  "product_material": "Wooden",
  "product_color": "pink"
},
{
  "_id": {
    "$oid": "699be8303af1722a4a73690c"
  },
  "id": "13",
  "product_name": "Gorgeous Cotton Keyboard",
  "product_price": 37,
  "product_material": "Concrete",
  "product_color": "sky blue"
},
{
  "_id": {
    "$oid": "699be8303af1722a4a73690d"
  },
  "id": "14",
  "product_name": "Incredible Steel Shirt",
  "product_price": 54,
  "product_material": "Metal",
```

```
    "product_color": "white"
  },
  {
    "_id": {
      "$oid": "699be8303af1722a4a73690e"
    },
    "id": "15",
    "product_name": "Ergonomic Cotton Hat",
    "product_price": 43,
    "product_material": "Rubber",
    "product_color": "mint green"
  },
  {
    "_id": {
      "$oid": "699be8303af1722a4a73690f"
    },
    "id": "16",
    "product_name": "Small Soft Chair",
    "product_price": 47,
    "product_material": "Cotton",
    "product_color": "teal"
  },
  {
    "_id": {
      "$oid": "699be8303af1722a4a736910"
    },
    "id": "17",
    "product_name": "Incredible Metal Car",
    "product_price": 36,
    "product_material": "Fresh",
    "product_color": "indigo"
  },
  {
    "_id": {
      "$oid": "699be8303af1722a4a736911"
    },
    "id": "18",
    "product_name": "Licensed Plastic Bacon",
    "product_price": 88,
    "product_material": "Steel",
    "product_color": "yellow"
  },
  {
    "_id": {
      "$oid": "699be8303af1722a4a736912"
    },
    "id": "19",
    "product_name": "Intelligent Cotton Chips",
```

```
      "product_price": 46,
      "product_material": "Soft",
      "product_color": "azure"
    },
    {
      "_id": {
        "$oid": "699be8303af1722a4a736913"
      },
      "id": "20",
      "product_name": "Handcrafted Wooden Bacon",
      "product_price": 36,
      "product_material": "Concrete",
      "product_color": "lime"
    }
]
```

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

Solution: db.Product.find({product_price:{
```
    $gt:400,
    $lt:800
}});
```
Output:
```
[
  {
    "_id": {
      "$oid": "699be7d03af1722a4a736900"
    },
    "id": "1",
    "product_name": "Intelligent Fresh Chips",
    "product_price": 655,
    "product_material": "Concrete",
    "product_color": "mint green"
  },
  {
    "_id": {
      "$oid": "699be8303af1722a4a736902"
    },
    "id": "3",
    "product_name": "Refined Steel Car",
    "product_price": 690,
    "product_material": "Rubber",
    "product_color": "gold"
  },
  {
    "_id": {
      "$oid": "699be8303af1722a4a736903"
    },
    "id": "4",
```

```
    "product_name": "Gorgeous Plastic Pants",
    "product_price": 492,
    "product_material": "Soft",
    "product_color": "plum"
  },
  {
    "_id": {
      "$oid": "699be8303af1722a4a736905"
    },
    "id": "6",
    "product_name": "Awesome Wooden Towels",
    "product_price": 474,
    "product_material": "Plastic",
    "product_color": "orange"
  },
  {
    "_id": {
      "$oid": "699be8303af1722a4a736906"
    },
    "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
Solution: db.Product.find({product_price:{$not:{
```
    $gt:400,
    $lt:600
}}});
```
Output:
```
[
  {
    "_id": {
      "$oid": "699be7d03af1722a4a736900"
    },
    "id": "1",
    "product_name": "Intelligent Fresh Chips",
    "product_price": 655,
    "product_material": "Concrete",
    "product_color": "mint green"
  },
  {
    "_id": {
      "$oid": "699be8303af1722a4a736901"
    },
```

      "id": "2",
      "product_name": "Practical Fresh Sausages",
      "product_price": 911,
      "product_material": "Cotton",
      "product_color": "indigo"
    },
    {
      "_id": {
        "$oid": "699be8303af1722a4a736902"
      },
      "id": "3",
      "product_name": "Refined Steel Car",
      "product_price": 690,
      "product_material": "Rubber",
      "product_color": "gold"
    },
    {
      "_id": {
        "$oid": "699be8303af1722a4a736904"
      },
      "id": "5",
      "product_name": "Sleek Cotton Chair",
      "product_price": 33,
      "product_material": "Fresh",
      "product_color": "black"
    },
    {
      "_id": {
        "$oid": "699be8303af1722a4a736907"
      },
      "id": "8",
      "product_name": "Incredible Steel Hat",
      "product_price": 78,
      "product_material": "Rubber",
      "product_color": "violet"
    },
    {
      "_id": {
        "$oid": "699be8303af1722a4a736908"
      },
      "id": "9",
      "product_name": "Awesome Wooden Ball",
      "product_price": 28,
      "product_material": "Soft",
      "product_color": "azure"
    },
    {
      "_id": {

```
      "$oid": "699be8303af1722a4a736909"
    },
    "id": "10",
    "product_name": "Generic Wooden Pizza",
    "product_price": 84,
    "product_material": "Frozen",
    "product_color": "indigo"
  },
  {
    "_id": {
      "$oid": "699be8303af1722a4a73690a"
    },
    "id": "11",
    "product_name": "Unbranded Wooden Cheese",
    "product_price": 26,
    "product_material": "Soft",
    "product_color": "black"
  },
  {
    "_id": {
      "$oid": "699be8303af1722a4a73690b"
    },
    "id": "12",
    "product_name": "Unbranded Plastic Salad",
    "product_price": 89,
    "product_material": "Wooden",
    "product_color": "pink"
  },
  {
    "_id": {
      "$oid": "699be8303af1722a4a73690c"
    },
    "id": "13",
    "product_name": "Gorgeous Cotton Keyboard",
    "product_price": 37,
    "product_material": "Concrete",
    "product_color": "sky blue"
  },
  {
    "_id": {
      "$oid": "699be8303af1722a4a73690d"
    },
    "id": "14",
    "product_name": "Incredible Steel Shirt",
    "product_price": 54,
    "product_material": "Metal",
    "product_color": "white"
  },
```

```json
{
  "_id": {
    "$oid": "699be8303af1722a4a73690e"
  },
  "id": "15",
  "product_name": "Ergonomic Cotton Hat",
  "product_price": 43,
  "product_material": "Rubber",
  "product_color": "mint green"
},
{
  "_id": {
    "$oid": "699be8303af1722a4a73690f"
  },
  "id": "16",
  "product_name": "Small Soft Chair",
  "product_price": 47,
  "product_material": "Cotton",
  "product_color": "teal"
},
{
  "_id": {
    "$oid": "699be8303af1722a4a736910"
  },
  "id": "17",
  "product_name": "Incredible Metal Car",
  "product_price": 36,
  "product_material": "Fresh",
  "product_color": "indigo"
},
{
  "_id": {
    "$oid": "699be8303af1722a4a736911"
  },
  "id": "18",
  "product_name": "Licensed Plastic Bacon",
  "product_price": 88,
  "product_material": "Steel",
  "product_color": "yellow"
},
{
  "_id": {
    "$oid": "699be8303af1722a4a736912"
  },
  "id": "19",
  "product_name": "Intelligent Cotton Chips",
  "product_price": 46,
  "product_material": "Soft",
```

```
      "product_color": "azure"
    },
    {
      "_id": {
        "$oid": "699be8303af1722a4a736913"
      },
      "id": "20",
      "product_name": "Handcrafted Wooden Bacon",
      "product_price": 36,
      "product_material": "Concrete",
      "product_color": "lime"
    },
    {
      "_id": {
        "$oid": "699be8303af1722a4a736914"
      },
      "id": "21",
      "product_name": "Unbranded Granite Chicken",
      "product_price": 90,
      "product_material": "Metal",
      "product_color": "gold"
    },
    {
      "_id": {
        "$oid": "699be8303af1722a4a736915"
      },
      "id": "22",
      "product_name": "Ergonomic Soft Hat",
      "product_price": 99,
      "product_material": "Rubber",
      "product_color": "black"
    },
    {
      "_id": {
        "$oid": "699be8303af1722a4a736916"
      },
      "id": "23",
      "product_name": "Intelligent Steel Pizza",
      "product_price": 95,
      "product_material": "Cotton",
      "product_color": "azure"
    }
]
```

4. List the four product which are greater than 500 in price
Solution: db.Product.find({product_price:{
    $gt:500

```
}}).limit(4);
Output: [
  {
    "_id": {
      "$oid": "699be7d03af1722a4a736900"
    },
    "id": "1",
    "product_name": "Intelligent Fresh Chips",
    "product_price": 655,
    "product_material": "Concrete",
    "product_color": "mint green"
  },
  {
    "_id": {
      "$oid": "699be8303af1722a4a736901"
    },
    "id": "2",
    "product_name": "Practical Fresh Sausages",
    "product_price": 911,
    "product_material": "Cotton",
    "product_color": "indigo"
  },
  {
    "_id": {
      "$oid": "699be8303af1722a4a736902"
    },
    "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
Solution: db.Product.find({},{product_name:1,product_material:1,_id:0});
Output: [
```
  {
    "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"
  }
]
```

6. Find the product with a row id of 10
Solution: db.Product.find({id:"10"});
Output:
```
[
  {
    "_id": {
      "$oid": "699be8303af1722a4a736909"
    },
    "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
Solution: db.Product.find({},{product_name:1,product_material:1,_id:0});
Output:
```
[
  {
    "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"
   }
]
```

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

```
[
   {
      "_id": {
         "$oid": "699be8303af1722a4a736903"
      },
      "id": "4",
      "product_name": "Gorgeous Plastic Pants",
      "product_price": 492,
      "product_material": "Soft",
      "product_color": "plum"
   },
   {
      "_id": {
         "$oid": "699be8303af1722a4a736908"
      },
      "id": "9",
```

```
    "product_name": "Awesome Wooden Ball",
    "product_price": 28,
    "product_material": "Soft",
    "product_color": "azure"
  },
  {
    "_id": {
      "$oid": "699be8303af1722a4a73690a"
    },
    "id": "11",
    "product_name": "Unbranded Wooden Cheese",
    "product_price": 26,
    "product_material": "Soft",
    "product_color": "black"
  },
  {
    "_id": {
      "$oid": "699be8303af1722a4a736912"
    },
    "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

Solution: db.Product.find({product_color:"indigo",product_price:492.00});

Output: []

10. Delete the products which product price value are 28

Output: db.Product.deleteOne({product_price:28});

```
{
  "acknowledged": true,
  "deletedCount": 1
}
```