

# MongoDB

Create database and insert documents in collection.

use productDatabase

db.products.insertMany()

```
Command Prompt - mongo
admin 0.000GB
config 0.000GB
local 0.000GB
> use productDatabase
switched to db productDatabase
> db
productDatabase
> 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"
...   },
... ],
{
  "acknowledged": true,
  "insertedIds": [
    ObjectId("65dde4393637d0229475a2fb"),
    ObjectId("65dde4393637d0229475a2fc"),
    ObjectId("65dde4393637d0229475a2fd"),
    ObjectId("65dde4393637d0229475a2fe"),
    ObjectId("65dde4393637d0229475a2ff"),
    ObjectId("65dde4393637d0229475a300"),
    ObjectId("65dde4393637d0229475a301"),
    ObjectId("65dde4393637d0229475a302"),
    ObjectId("65dde4393637d0229475a303"),
    ObjectId("65dde4393637d0229475a304"),
    ObjectId("65dde4393637d0229475a305"),
    ObjectId("65dde4393637d0229475a306"),
    ObjectId("65dde4393637d0229475a307"),
    ObjectId("65dde4393637d0229475a308"),
    ObjectId("65dde4393637d0229475a309"),
    ObjectId("65dde4393637d0229475a30a"),
    ObjectId("65dde4393637d0229475a30b"),
    ObjectId("65dde4393637d0229475a30c"),
    ObjectId("65dde4393637d0229475a30d"),
    ObjectId("65dde4393637d0229475a30e"),
    ObjectId("65dde4393637d0229475a30f"),
    ObjectId("65dde4393637d0229475a310"),
    ObjectId("65dde4393637d0229475a311"),
    ObjectId("65dde4393637d0229475a312"),
    ObjectId("65dde4393637d0229475a313")
  ]
}
```

1. Find all the information about each products

**db.products.find().pretty();**

```
Command Prompt - mongo
> db.products.find().pretty();
{
  "_id" : ObjectId("65dde4393637d0229475a2fb"),
  "id" : "1",
  "product_name" : "Intelligent Fresh Chips",
  "product_price" : 655,
  "product_material" : "Concrete",
  "product_color" : "mint green",
}
{
  "_id" : ObjectId("65dde4393637d0229475a2fc"),
  "id" : "2",
  "product_name" : "Practical Fresh Sausages",
  "product_price" : 911,
  "product_material" : "Cotton",
  "product_color" : "indigo"
}
{
  "_id" : ObjectId("65dde4393637d0229475a2fd"),
  "id" : "3",
  "product_name" : "Refined Steel Car",
  "product_price" : 690,
  "product_material" : "Rubber",
  "product_color" : "gold"
}
{
  "_id" : ObjectId("65dde4393637d0229475a2fe"),
  "id" : "4",
  "product_name" : "Gorgeous Plastic Pants",
  "product_price" : 492,
  "product_material" : "Soft",
  "product_color" : "plum"
}
{
  "_id" : ObjectId("65dde4393637d0229475a2ff"),
  "id" : "5",
  "product_name" : "Sleek Cotton Chair",
  "product_price" : 33,
  "product_material" : "Fresh",
  "product_color" : "black"
}
{
  "_id" : ObjectId("65dde4393637d0229475a300"),
  "id" : "6",
```

```
Command Prompt - mongo
{
  "_id" : ObjectId("65dde4393637d0229475a300"),
  "id" : "6",
  "product_name" : "Awesome Wooden Towels",
  "product_price" : 474,
  "product_material" : "Plastic",
  "product_color" : "orange"
}
{
  "_id" : ObjectId("65dde4393637d0229475a301"),
  "id" : "7",
  "product_name" : "Practical Soft Shoes",
  "product_price" : 500,
  "product_material" : "Rubber",
  "product_color" : "pink"
}
{
  "_id" : ObjectId("65dde4393637d0229475a302"),
  "id" : "8",
  "product_name" : "Incredible Steel Hat",
  "product_price" : 78,
  "product_material" : "Rubber",
  "product_color" : "violet"
}
{
  "_id" : ObjectId("65dde4393637d0229475a303"),
  "id" : "9",
  "product_name" : "Awesome Wooden Ball",
  "product_price" : 28,
  "product_material" : "Soft",
  "product_color" : "azure"
}
{
  "_id" : ObjectId("65dde4393637d0229475a304"),
  "id" : "10",
  "product_name" : "Generic Wooden Pizza",
  "product_price" : 84,
  "product_material" : "Frozen",
  "product_color" : "indigo"
}
{
  "_id" : ObjectId("65dde4393637d0229475a305"),
  "id" : "11",
  "product_name" : "Unbranded Wooden Cheese",
```

```
Command Prompt - mongo

  "_id" : ObjectId("65dde4393637d0229475a305"),
  "id" : "11",
  "product_name" : "Unbranded Wooden Cheese",
  "product_price" : 26,
  "product_material" : "Soft",
  "product_color" : "black"

}

  "_id" : ObjectId("65dde4393637d0229475a306"),
  "id" : "12",
  "product_name" : "Unbranded Plastic Salad",
  "product_price" : 89,
  "product_material" : "Wooden",
  "product_color" : "pink"

}

  "_id" : ObjectId("65dde4393637d0229475a307"),
  "id" : "13",
  "product_name" : "Gorgeous Cotton Keyboard",
  "product_price" : 37,
  "product_material" : "Concrete",
  "product_color" : "sky blue"

}

  "_id" : ObjectId("65dde4393637d0229475a308"),
  "id" : "14",
  "product_name" : "Incredible Steel Shirt",
  "product_price" : 54,
  "product_material" : "Metal",
  "product_color" : "white"

}

  "_id" : ObjectId("65dde4393637d0229475a309"),
  "id" : "15",
  "product_name" : "Ergonomic Cotton Hat",
  "product_price" : 43,
  "product_material" : "Rubber",
  "product_color" : "mint green"

}

  "_id" : ObjectId("65dde4393637d0229475a30a"),
  "id" : "16",
  "product_name" : "Small Soft Chair",
  "product_price" : 47,
```

```
Command Prompt - mongo

  "product_price" : 43,
  "product_material" : "Rubber",
  "product_color" : "mint green"

}

  "_id" : ObjectId("65dde4393637d0229475a30a"),
  "id" : "16",
  "product_name" : "Small Soft Chair",
  "product_price" : 47,
  "product_material" : "Cotton",
  "product_color" : "teal"

}

  "_id" : ObjectId("65dde4393637d0229475a30b"),
  "id" : "17",
  "product_name" : "Incredible Metal Car",
  "product_price" : 36,
  "product_material" : "Fresh",
  "product_color" : "indigo"

}

  "_id" : ObjectId("65dde4393637d0229475a30c"),
  "id" : "18",
  "product_name" : "Licensed Plastic Bacon",
  "product_price" : 88,
  "product_material" : "Steel",
  "product_color" : "yellow"

}

  "_id" : ObjectId("65dde4393637d0229475a30d"),
  "id" : "19",
  "product_name" : "Intelligent Cotton Chips",
  "product_price" : 46,
  "product_material" : "Soft",
  "product_color" : "azure"

}

  "_id" : ObjectId("65dde4393637d0229475a30e"),
  "id" : "20",
  "product_name" : "Handcrafted Wooden Bacon",
  "product_price" : 36,
  "product_material" : "Concrete",
  "product_color" : "lime"

}
```

```
Command Prompt - mongo
{
  "_id" : ObjectId("65dde4393637d0229475a30f"),
  "id" : "21",
  "product_name" : "Unbranded Granite Chicken",
  "product_price" : 90,
  "product_material" : "Metal",
  "product_color" : "gold"
}

{
  "_id" : ObjectId("65dde4393637d0229475a310"),
  "id" : "22",
  "product_name" : "Ergonomic Soft Hat",
  "product_price" : 99,
  "product_material" : "Rubber",
  "product_color" : "black"
}

{
  "_id" : ObjectId("65dde4393637d0229475a311"),
  "id" : "23",
  "product_name" : "Intelligent Steel Pizza",
  "product_price" : 95,
  "product_material" : "Cotton",
  "product_color" : "azure"
}

{
  "_id" : ObjectId("65dde4393637d0229475a312"),
  "id" : "24",
  "product_name" : "Tasty Rubber Cheese",
  "product_price" : 47,
  "product_material" : "Frozen",
  "product_color" : "orchid"
}

{
  "_id" : ObjectId("65dde4393637d0229475a313"),
  "id" : "25",
  "product_name" : "Licensed Steel Car",
  "product_price" : 20,
  "product_material" : "Cotton",
  "product_color" : "indigo"
}
```

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

```
db.products.find({product_price:{$gte:400,$lte:800}}).pretty();
```

```
Command Prompt - mongo
{
  "product_color" : "indigo"
}
db.products.find({product_price:{$gte:400,$lte:800}}).pretty();
{
  "_id" : ObjectId("65dde4393637d0229475a2fb"),
  "id" : "1",
  "product_name" : "Intelligent Fresh Chips",
  "product_price" : 655,
  "product_material" : "Concrete",
  "product_color" : "mint green"
}

{
  "_id" : ObjectId("65dde4393637d0229475a2fd"),
  "id" : "3",
  "product_name" : "Refined Steel Car",
  "product_price" : 690,
  "product_material" : "Rubber",
  "product_color" : "gold"
}

{
  "_id" : ObjectId("65dde4393637d0229475a2fe"),
  "id" : "4",
  "product_name" : "Gorgeous Plastic Pants",
  "product_price" : 492,
  "product_material" : "Soft",
  "product_color" : "plum"
}

{
  "_id" : ObjectId("65dde4393637d0229475a300"),
  "id" : "6",
  "product_name" : "Awesome Wooden Towels",
  "product_price" : 474,
  "product_material" : "Plastic",
  "product_color" : "orange"
}

{
  "_id" : ObjectId("65dde4393637d0229475a301"),
  "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.products.find({product_price:{$not:{$gte:400,$lte:600}}}).pretty();
```

```
Command Prompt - mongo
> db.products.find((product_price:{$not:{$gte:400,$lte:600}})).pretty();
{
  "_id" : ObjectId("65dde4393637d0229475a2fb"),
  "id" : "1",
  "product_name" : "Intelligent Fresh Chips",
  "product_price" : 655,
  "product_material" : "Concrete",
  "product_color" : "mint green"
}
{
  "_id" : ObjectId("65dde4393637d0229475a2fc"),
  "id" : "2",
  "product_name" : "Practical Fresh Sausages",
  "product_price" : 911,
  "product_material" : "Cotton",
  "product_color" : "indigo"
}
{
  "_id" : ObjectId("65dde4393637d0229475a2fd"),
  "id" : "3",
  "product_name" : "Refined Steel Car",
  "product_price" : 690,
  "product_material" : "Rubber",
  "product_color" : "gold"
}
{
  "_id" : ObjectId("65dde4393637d0229475a2ff"),
  "id" : "5",
  "product_name" : "Sleek Cotton Chair",
  "product_price" : 33,
  "product_material" : "Fresh",
  "product_color" : "black"
}
{
  "_id" : ObjectId("65dde4393637d0229475a302"),
  "id" : "8",
  "product_name" : "Incredible Steel Hat",
  "product_price" : 78,
  "product_material" : "Rubber",
  "product_color" : "violet"
}
{
  "_id" : ObjectId("65dde4393637d0229475a303"),
  "id" : "9",
  "product_name" : "Awesome Wooden Ball",
  "product_price" : 28,
  "product_material" : "Soft",
  "product_color" : "azure"
}
{
  "_id" : ObjectId("65dde4393637d0229475a304"),
  "id" : "10",
  "product_name" : "Generic Wooden Pizza",
  "product_price" : 84,
  "product_material" : "Frozen",
  "product_color" : "indigo"
}
{
  "_id" : ObjectId("65dde4393637d0229475a305"),
  "id" : "11",
  "product_name" : "Unbranded Wooden Cheese",
  "product_price" : 26,
  "product_material" : "Soft",
  "product_color" : "black"
}
{
  "_id" : ObjectId("65dde4393637d0229475a306"),
  "id" : "12",
  "product_name" : "Unbranded Plastic Salad",
  "product_price" : 89,
  "product_material" : "Wooden",
  "product_color" : "pink"
}
{
  "_id" : ObjectId("65dde4393637d0229475a307"),
  "id" : "13",
  "product_name" : "Gorgeous Cotton Keyboard",
  "product_price" : 37,
  "product_material" : "Concrete",
  "product_color" : "sky blue"
}
{
  "_id" : ObjectId("65dde4393637d0229475a308"),
  "id" : "14",
  "product_name" : "Awesome Wooden Ball",
  "product_price" : 28,
  "product_material" : "Soft",
  "product_color" : "azure"
}
}

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```

```
Command Prompt - mongo
{
  "_id" : ObjectId("65dde4393637d0229475a303"),
  "id" : "9",
  "product_name" : "Awesome Wooden Ball",
  "product_price" : 28,
  "product_material" : "Soft",
  "product_color" : "azure"
}
{
  "_id" : ObjectId("65dde4393637d0229475a304"),
  "id" : "10",
  "product_name" : "Generic Wooden Pizza",
  "product_price" : 84,
  "product_material" : "Frozen",
  "product_color" : "indigo"
}
{
  "_id" : ObjectId("65dde4393637d0229475a305"),
  "id" : "11",
  "product_name" : "Unbranded Wooden Cheese",
  "product_price" : 26,
  "product_material" : "Soft",
  "product_color" : "black"
}
{
  "_id" : ObjectId("65dde4393637d0229475a306"),
  "id" : "12",
  "product_name" : "Unbranded Plastic Salad",
  "product_price" : 89,
  "product_material" : "Wooden",
  "product_color" : "pink"
}
{
  "_id" : ObjectId("65dde4393637d0229475a307"),
  "id" : "13",
  "product_name" : "Gorgeous Cotton Keyboard",
  "product_price" : 37,
  "product_material" : "Concrete",
  "product_color" : "sky blue"
}
{
  "_id" : ObjectId("65dde4393637d0229475a308"),
  "id" : "14",
  "product_name" : "Awesome Wooden Ball",
  "product_price" : 28,
  "product_material" : "Soft",
  "product_color" : "azure"
}
}

Type here to search 29°C 07:50 PM 27-02-2024
```

```
Command Prompt - mongo

{"_id" : ObjectId("65dde4393637d0229475a308"),
  "id" : "14",
  "product_name" : "Incredible Steel Shirt",
  "product_price" : 54,
  "product_material" : "Metal",
  "product_color" : "white"
},

{"_id" : ObjectId("65dde4393637d0229475a309"),
  "id" : "15",
  "product_name" : "Ergonomic Cotton Hat",
  "product_price" : 43,
  "product_material" : "Rubber",
  "product_color" : "mint green"
},

{"_id" : ObjectId("65dde4393637d0229475a30a"),
  "id" : "16",
  "product_name" : "Small Soft Chair",
  "product_price" : 47,
  "product_material" : "Cotton",
  "product_color" : "teal"
},

{"_id" : ObjectId("65dde4393637d0229475a30b"),
  "id" : "17",
  "product_name" : "Incredible Metal Car",
  "product_price" : 36,
  "product_material" : "Fresh",
  "product_color" : "indigo"
},

{"_id" : ObjectId("65dde4393637d0229475a30c"),
  "id" : "18",
  "product_name" : "Licensed Plastic Bacon",
  "product_price" : 88,
  "product_material" : "Steel",
  "product_color" : "yellow"
},

{"_id" : ObjectId("65dde4393637d0229475a30d"),
  "id" : "19",
  "product_name" : "Intelligent Cotton Chips",
  "product_price" : 46,
```

```
Command Prompt - mongo

{"product_price" : 88,
  "product_material" : "Steel",
  "product_color" : "yellow"
},

{"_id" : ObjectId("65dde4393637d0229475a30d"),
  "id" : "19",
  "product_name" : "Intelligent Cotton Chips",
  "product_price" : 46,
  "product_material" : "Soft",
  "product_color" : "azure"
},

{"_id" : ObjectId("65dde4393637d0229475a30e"),
  "id" : "20",
  "product_name" : "Handcrafted Wooden Bacon",
  "product_price" : 36,
  "product_material" : "Concrete",
  "product_color" : "lime"
},

{"_id" : ObjectId("65dde4393637d0229475a30f"),
  "id" : "21",
  "product_name" : "Unbranded Granite Chicken",
  "product_price" : 90,
  "product_material" : "Metal",
  "product_color" : "gold"
},

{"_id" : ObjectId("65dde4393637d0229475a310"),
  "id" : "22",
  "product_name" : "Ergonomic Soft Hat",
  "product_price" : 99,
  "product_material" : "Rubber",
  "product_color" : "black"
},

{"_id" : ObjectId("65dde4393637d0229475a311"),
  "id" : "23",
  "product_name" : "Intelligent Steel Pizza",
  "product_price" : 95,
  "product_material" : "Cotton",
  "product_color" : "azure"
}
```

```
Command Prompt - mongo
{
  "id" : ObjectId("65dde4393637d0229475a312"),
  "id" : "24",
  "product_name" : "Tasty Rubber Cheese",
  "product_price" : 47,
  "product_material" : "Frozen",
  "product_color" : "orchid"
}
{
  "id" : ObjectId("65dde4393637d0229475a313"),
  "id" : "25",
  "product_name" : "Licensed Steel Car",
  "product_price" : 20,
  "product_material" : "Cotton",
  "product_color" : "indigo"
}
```

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

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

Only three products are available with price greater than 500.

If we give greater than or equal to 500 then we can get four products.

```
db.products.find({product_price:{$gte:500}}).limit(4).pretty();
```

```
Command Prompt - mongo
{
  "product_name" : "Refined Steel Car",
  "product_price" : 690,
  "product_material" : "Rubber",
  "product_color" : "gold"
}
> db.products.find({product_price:{$gte:500}}).pretty();
{
  "id" : ObjectId("65dde4393637d0229475a2fb"),
  "id" : "1",
  "product_name" : "Intelligent Fresh Chips",
  "product_price" : 655,
  "product_material" : "Concrete",
  "product_color" : "mint green"
}
{
  "id" : ObjectId("65dde4393637d0229475a2fc"),
  "id" : "2",
  "product_name" : "Practical Fresh Sausages",
  "product_price" : 911,
  "product_material" : "Cotton",
  "product_color" : "indigo"
}
{
  "id" : ObjectId("65dde4393637d0229475a2fd"),
  "id" : "3",
  "product_name" : "Refined Steel Car",
  "product_price" : 690,
  "product_material" : "Rubber",
  "product_color" : "gold"
}
{
  "id" : ObjectId("65dde4393637d0229475a301"),
  "id" : "7",
  "product_name" : "Practical Soft Shoes",
  "product_price" : 500,
  "product_material" : "Rubber",
  "product_color" : "pink"
}
```

```
Command Prompt - mongo
{
  "_id" : ObjectId("65dde4393637d0229475a301"),
  "id" : "7",
  "product_name" : "Practical Soft Shoes",
  "product_price" : 500,
  "product_material" : "Rubber",
  "product_color" : "pink"
}
db.products.find({product_price:{$gt:500}}).limit(4).pretty();
{
  "_id" : ObjectId("65dde4393637d0229475a2fb"),
  "id" : "1",
  "product_name" : "Intelligent Fresh Chips",
  "product_price" : 655,
  "product_material" : "Concrete",
  "product_color" : "mint green"
}
{
  "_id" : ObjectId("65dde4393637d0229475a2fc"),
  "id" : "2",
  "product_name" : "Practical Fresh Sausages",
  "product_price" : 911,
  "product_material" : "Cotton",
  "product_color" : "indigo"
}
{
  "_id" : ObjectId("65dde4393637d0229475a2fd"),
  "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.products.find({}, {product_name:1,product_material:1}).pretty();
```

```
Command Prompt - mongo
db.products.find({}, {product_name:1,product_material:1}).pretty();
{
  "_id" : ObjectId("65dde4393637d0229475a2fb"),
  "product_name" : "Intelligent Fresh Chips",
  "product_material" : "Concrete"
}
{
  "_id" : ObjectId("65dde4393637d0229475a2fc"),
  "product_name" : "Practical Fresh Sausages",
  "product_material" : "Cotton"
}
{
  "_id" : ObjectId("65dde4393637d0229475a2fd"),
  "product_name" : "Refined Steel Car",
  "product_material" : "Rubber"
}
{
  "_id" : ObjectId("65dde4393637d0229475a2fe"),
  "product_name" : "Gorgeous Plastic Pants",
  "product_material" : "Soft"
}
{
  "_id" : ObjectId("65dde4393637d0229475a2ff"),
  "product_name" : "Sleek Cotton Chair",
  "product_material" : "Fresh"
}
{
  "_id" : ObjectId("65dde4393637d0229475a300"),
  "product_name" : "Awesome Wooden Towels",
  "product_material" : "Plastic"
}
{
  "_id" : ObjectId("65dde4393637d0229475a301"),
  "product_name" : "Practical Soft Shoes",
  "product_material" : "Rubber"
}
{
  "_id" : ObjectId("65dde4393637d0229475a302"),
  "product_name" : "Incredible Steel Hat",
  "product_material" : "Rubber"
}
{
  "_id" : ObjectId("65dde4393637d0229475a303"),
  "product_name" : "Awesome Wooden Ball",
  "product_material" : "Rubber"
}
```



```
Command Prompt - mongo

{"_id" : ObjectId("65dde4393637d0229475a303"),
  "product_name" : "Awesome Wooden Ball",
  "product_material" : "Soft"
}

{"_id" : ObjectId("65dde4393637d0229475a304"),
  "product_name" : "Generic Wooden Pizza",
  "product_material" : "Frozen"
}

{"_id" : ObjectId("65dde4393637d0229475a305"),
  "product_name" : "Unbranded Wooden Cheese",
  "product_material" : "Soft"
}

{"_id" : ObjectId("65dde4393637d0229475a306"),
  "product_name" : "Unbranded Plastic Salad",
  "product_material" : "Wooden"
}

{"_id" : ObjectId("65dde4393637d0229475a307"),
  "product_name" : "Gorgeous Cotton Keyboard",
  "product_material" : "Concrete"
}

{"_id" : ObjectId("65dde4393637d0229475a308"),
  "product_name" : "Incredible Steel Shirt",
  "product_material" : "Metal"
}

{"_id" : ObjectId("65dde4393637d0229475a309"),
  "product_name" : "Ergonomic Cotton Hat",
  "product_material" : "Rubber"
}

{"_id" : ObjectId("65dde4393637d0229475a30a"),
  "product_name" : "Small Soft Chair",
  "product_material" : "Cotton"
}

{"_id" : ObjectId("65dde4393637d0229475a30b"),
  "product_name" : "Incredible Metal Car",
  "product_material" : "Fresh"
}
```

```
Command Prompt - mongo

{"_id" : ObjectId("65dde4393637d0229475a30c"),
  "product_name" : "Licensed Plastic Bacon",
  "product_material" : "Steel"
}

{"_id" : ObjectId("65dde4393637d0229475a30d"),
  "product_name" : "Intelligent Cotton Chips",
  "product_material" : "Soft"
}

{"_id" : ObjectId("65dde4393637d0229475a30e"),
  "product_name" : "Handcrafted Wooden Bacon",
  "product_material" : "Concrete"
}

Type "it" for more
> it

{"_id" : ObjectId("65dde4393637d0229475a30f"),
  "product_name" : "Unbranded Granite Chicken",
  "product_material" : "Metal"
}

{"_id" : ObjectId("65dde4393637d0229475a310"),
  "product_name" : "Ergonomic Soft Hat",
  "product_material" : "Rubber"
}

{"_id" : ObjectId("65dde4393637d0229475a311"),
  "product_name" : "Intelligent Steel Pizza",
  "product_material" : "Cotton"
}

{"_id" : ObjectId("65dde4393637d0229475a312"),
  "product_name" : "Tasty Rubber Cheese",
  "product_material" : "Frozen"
}

{"_id" : ObjectId("65dde4393637d0229475a313"),
  "product_name" : "Licensed Steel Car",
  "product_material" : "Cotton"
}
```

## 6. Find the product with a row id of 10

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

```
Command Prompt - mongo
> db.products.findOne({id:"10"});
{
  "_id" : ObjectId("65dde4393637d0229475a304"),
  "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

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

```
Command Prompt - mongo
{ "product_name" : "Intelligent Steel Pizza", "product_material" : "Cotton" }
{ "product_name" : "Tasty Rubber Cheese", "product_material" : "Frozen" }
{ "product_name" : "Licensed Steel Car", "product_material" : "Cotton" }
> db.products.findOne({id:10});
null
> db.products.findOne({id:{$eq:10}});
null
> db.products.findOne({id:{$eq:"10"}});
{
  "_id" : ObjectId("65dde4393637d0229475a304"),
  "id" : "10",
  "product_name" : "Generic Wooden Pizza",
  "product_price" : 84,
  "product_material" : "Frozen",
  "product_color" : "indigo"
}
> db.products.find({}, {_id:0,product_name:1,product_material:1});
{ "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
> it
{ "product_name" : "Unbranded Granite Chicken", "product_material" : "Metal" }
{ "product_name" : "Ergonomic Soft Hat", "product_material" : "Rubber" }
{ "product_name" : "Intelligent Steel Pizza", "product_material" : "Cotton" }
{ "product_name" : "Tasty Rubber Cheese", "product_material" : "Frozen" }
{ "product_name" : "Licensed Steel Car", "product_material" : "Cotton" }
```

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

```
db.products.find({product_material:{$eq:"Soft"}}).pretty();
```

```
Command Prompt - mongo
> db.products.find({product_material:{$eq:"Soft"}}).pretty();
{
  "_id" : ObjectId("65dde4393637d0229475a2fe"),
  "id" : "4",
  "product_name" : "Gorgeous Plastic Pants",
  "product_price" : 492,
  "product_material" : "Soft",
  "product_color" : "plum"
}
{
  "_id" : ObjectId("65dde4393637d0229475a303"),
  "id" : "9",
  "product_name" : "Awesome Wooden Ball",
  "product_price" : 28,
  "product_material" : "Soft",
  "product_color" : "azure"
}
{
  "_id" : ObjectId("65dde4393637d0229475a305"),
  "id" : "11",
  "product_name" : "Unbranded Wooden Cheese",
  "product_price" : 26,
  "product_material" : "Soft",
  "product_color" : "black"
}
{
  "_id" : ObjectId("65dde4393637d0229475a30d"),
  "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

None. No products have product color “indigo” and product price “492.00”.

But if we can retrieve products which have either product color “indigo” or product price “492.00”.

```
db.products.find({$or:[{product_color:{$eq:"indigo"}},{product_price:{$eq:492.00}}]}).pretty();
```

```
Command Prompt - mongo
> db.products.find({$or:[{product_color:{seq:"indigo"}},{product_price:{seq:492.00}}]}).pretty();
{
  "_id" : ObjectId("65dde4393637d0229475a2fc"),
  "id" : "2",
  "product_name" : "Practical Fresh Sausages",
  "product_price" : 911,
  "product_material" : "Cotton",
  "product_color" : "indigo",
  ...
  "_id" : ObjectId("65dde4393637d0229475a2fe"),
  "id" : "4",
  "product_name" : "Gorgeous Plastic Pants",
  "product_price" : 492,
  "product_material" : "Soft",
  "product_color" : "plum",
  ...
  "_id" : ObjectId("65dde4393637d0229475a304"),
  "id" : "10",
  "product_name" : "Generic Wooden Pizza",
  "product_price" : 84,
  "product_material" : "Frozen",
  "product_color" : "indigo",
  ...
  "_id" : ObjectId("65dde4393637d0229475a30b"),
  "id" : "17",
  "product_name" : "Incredible Metal Car",
  "product_price" : 36,
  "product_material" : "Fresh",
  "product_color" : "indigo",
  ...
  "_id" : ObjectId("65dde4393637d0229475a313"),
  "id" : "25",
  "product_name" : "Licensed Steel Car",
  "product_price" : 20,
  "product_material" : "Cotton",
  "product_color" : "indigo",
  ...
}
> db.products.find({$and:[{product_color:{seq:"indigo"}},{product_price:{seq:492.00}}]}).pretty();
{
}
```

## 10. Delete the products which product price value are same

```
var
pricesToDelete=db.products.aggregate([{$group:{_id:"$product_price"
,count:{$sum:1},docs:{$push:"$ _id"}}},{ $match:{count:{$gt:1}}}].toArray();
pricesToDelete.forEach(function(priceGroup){db.products.deleteMany
({_id:{$in:priceGroup.docs}});});
```

Initially we have 25 products, in that product\_prices 47 and 36 occur twice.

After deleting those now we have 21 products.

```

Command Prompt - mongo
> db.products.count();
25
> var pricesToDelete=db.products.aggregate([{$group:{$id:"$product_price",count:{$sum:1},docs:{$push:"$ _id"}}},{$match:{count:{$gt:1}}}).toArray();
> db.products.aggregate([{$group:{$id:"$product_price",count:{$sum:1}}},{$match:{count:{$gt:1}}})
{ "_id" : 47, "count" : 2 }
{ "_id" : 36, "count" : 2 }
> var pricesToDelete=db.products.aggregate([{$group:{$id:"$product_price",count:{$sum:1},docs:{$push:"$ _id"}}},{$match:{count:{$gt:1}}}).toArray();
> pricesToDelete.forEach(function(priceGroup){db.products.deleteMany({_id:{$in:priceGroup.docs}})});
> db.products.count();
21
> db.products.find().pretty();
{
  "_id" : ObjectId("65df2e3ad1123b61e5d4dab4"),
  "id" : "1",
  "product_name" : "Intelligent Fresh Chips",
  "product_price" : 655,
  "product_material" : "Concrete",
  "product_color" : "mint green",
}
{
  "_id" : ObjectId("65df2e3ad1123b61e5d4dab5"),
  "id" : "2",
  "product_name" : "Practical Fresh Sausages",
  "product_price" : 911,
  "product_material" : "Cotton",
  "product_color" : "indigo",
}
{
  "_id" : ObjectId("65df2e3ad1123b61e5d4dab6"),
  "id" : "3",
  "product_name" : "Refined Steel Car",
  "product_price" : 690,
  "product_material" : "Rubber",
  "product_color" : "gold",
}
{
  "_id" : ObjectId("65df2e3ad1123b61e5d4dab7"),
  "id" : "4",
  "product_name" : "Gorgeous Plastic Pants",
  "product_price" : 492,
  "product_material" : "Soft",
  "product_color" : "plum",
}

```



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