

MongoDB Day 1

- **Product JSON :** <https://github.com/rvsp/database/blob/master/mongodb/product.json>

Creating Database :

> use products

< switched to db products

> 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"

}
```


])

For the following question write the corresponding MongoDB queries

1. Find all the information about each products :

Solution : `db.products.find({})`

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

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

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

Solution : `db.products.find({ "product_price": { $not: { $gte: 400, $lte: 600 } } })`

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

Solution : `db.products.find({ "product_price": { $gt: 500 } }).limit(5)`

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

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

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

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

7. Find only the product name and product material :

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

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

Solution : `db.products.find({ "product_material": { $regex: /soft/i } })`

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

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

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

Solution : `db.products.deleteMany({ "product_price": { $eq: 492.00 } })`