

Database-MongoDB

Task Link: <https://github.com/rvsp/database/tree/master/mongodb>

Products

```
[
  {
    "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"
  }
]
```

Product Queries:

Db: Products

Collections: product

1. Find all the information about each products.

Solution:

```
db.product.find( { } )
```

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

Solution:

```
db.product.find( { product_price: { $gt:400, $lt:800 } } ).pretty()
```

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

Solution:

```
db.product.find( { product_price: { $not: { $gte:400, $lte:600 } } }  
                ).pretty()
```

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

Solution:

```
db.product.find( { product_price: { $gte:500 } } ).pretty()
```

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

Solution:

```
db.product.find( { }, { product_name:1, product_material:1 }  
                ).pretty()
```

6. Find the product with a row id of 10

Solution:

```
db.product.find( { id: "10" } ).pretty()
```

7. Find only the product name and product material

Solution:

```
db.product.find( { id: "10" }, { product_name:1, product_material:1 }  
                ).pretty()
```


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

Solution:

```
db.product.find( { product_material: "Soft" } ).pretty()
```

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

Solution:

```
db.product.find( { product_color: "indigo", product_price: 492.00 }  
                ).pretty()
```

10. Delete the products which product price value are same

Solution:

```
Var product_price_duplicates_id.push = [ ]
```

//To find products with same product price

```
db.product.aggregate( [  
    {  
        $group: { _id: {  
            product_price: "$product_price"  
        },  
        uniqueIds: { $addToSet: "$_id" },  
        count: { $sum: 1 }  
    },  
    { $match: { count: { $gt: 1 } } },  
    { $sort: { count: -1 } }  
]).forEach( doc => {  
    doc.uniqueIds.forEach( id => {
```

```
        product_price_duplicates_id.push(id)
    })
})
```

// To remove the products with same product price

```
db.product.remove( { _id: { $in: product_price_duplicates_id } } )
```