**Database-MongoDB**

***Task Link:***[*https://github.com/rvsp/database/tree/master/mongodb*](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 } } )