**MongoDB Day 1**

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

For the following question write the corresponding MongoDB queries

1. Find all the information about each products

Ans: db.products.find();

{

\_id: ObjectId('65e03010b18dc7ab8995f642'),

id: '1',

product\_name: 'Intelligent Fresh Chips',

product\_price: 655,

product\_material: 'Concrete',

product\_color: 'mint green'

}

{

\_id: ObjectId('65e03010b18dc7ab8995f643'),

id: '2',

product\_name: 'Practical Fresh Sausages',

product\_price: 911,

product\_material: 'Cotton',

product\_color: 'indigo'

}

{

\_id: ObjectId('65e03010b18dc7ab8995f644'),

id: '3',

product\_name: 'Refined Steel Car',

product\_price: 690,

product\_material: 'Rubber',

product\_color: 'gold'

}

{

\_id: ObjectId('65e03010b18dc7ab8995f645'),

id: '4',

product\_name: 'Gorgeous Plastic Pants',

product\_price: 492,

product\_material: 'Soft',

product\_color: 'plum'

}

{

\_id: ObjectId('65e03010b18dc7ab8995f646'),

id: '5',

product\_name: 'Sleek Cotton Chair',

product\_price: 33,

product\_material: 'Fresh',

product\_color: 'black'

}

{

\_id: ObjectId('65e03010b18dc7ab8995f647'),

id: '6',

product\_name: 'Awesome Wooden Towels',

product\_price: 474,

product\_material: 'Plastic',

product\_color: 'orange'

}

{

\_id: ObjectId('65e03010b18dc7ab8995f648'),

id: '7',

product\_name: 'Practical Soft Shoes',

product\_price: 500,

product\_material: 'Rubber',

product\_color: 'pink'

}

{

\_id: ObjectId('65e03010b18dc7ab8995f649'),

id: '8',

product\_name: 'Incredible Steel Hat',

product\_price: 78,

product\_material: 'Rubber',

product\_color: 'violet'

}

{

\_id: ObjectId('65e03010b18dc7ab8995f64a'),

id: '9',

product\_name: 'Awesome Wooden Ball',

product\_price: 28,

product\_material: 'Soft',

product\_color: 'azure'

}

.

.

.

.

{

\_id: ObjectId('65e03010b18dc7ab8995f659'),

id: '24',

product\_name: 'Tasty Rubber Cheese',

product\_price: 47,

product\_material: 'Frozen',

product\_color: 'orchid'

}

{

\_id: ObjectId('65e03010b18dc7ab8995f65a'),

id: '25',

product\_name: 'Licensed Steel Car',

product\_price: 20,

product\_material: 'Cotton',

product\_color: 'indigo'

}

{

\_id: ObjectId('65e03010b18dc7ab8995f658'),

id: '23',

product\_name: 'Intelligent Steel Pizza',

product\_price: 95,

product\_material: 'Cotton',

product\_color: 'azure'

}

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

Ans: db.products.find({'product\_price':{$lte:800,$gte:400}});

{

\_id: ObjectId('65e03010b18dc7ab8995f642'),

id: '1',

product\_name: 'Intelligent Fresh Chips',

product\_price: 655,

product\_material: 'Concrete',

product\_color: 'mint green'

}

{

\_id: ObjectId('65e03010b18dc7ab8995f644'),

id: '3',

product\_name: 'Refined Steel Car',

product\_price: 690,

product\_material: 'Rubber',

product\_color: 'gold'

}

{

\_id: ObjectId('65e03010b18dc7ab8995f645'),

id: '4',

product\_name: 'Gorgeous Plastic Pants',

product\_price: 492,

product\_material: 'Soft',

product\_color: 'plum'

}

{

\_id: ObjectId('65e03010b18dc7ab8995f647'),

id: '6',

product\_name: 'Awesome Wooden Towels',

product\_price: 474,

product\_material: 'Plastic',

product\_color: 'orange'

}

{

\_id: ObjectId('65e03010b18dc7ab8995f648'),

id: '7',

product\_name: 'Practical Soft Shoes',

product\_price: 500,

product\_material: 'Rubber',

product\_color: 'pink'

}

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

Ans: db.products.find({$or:[{'product\_price':{$gt:600}},{'product\_price':{$lt:400}}]});

{

\_id: ObjectId('65e03010b18dc7ab8995f642'),

id: '1',

product\_name: 'Intelligent Fresh Chips',

product\_price: 655,

product\_material: 'Concrete',

product\_color: 'mint green'

}

{

\_id: ObjectId('65e03010b18dc7ab8995f643'),

id: '2',

product\_name: 'Practical Fresh Sausages',

product\_price: 911,

product\_material: 'Cotton',

product\_color: 'indigo'

}

{

\_id: ObjectId('65e03010b18dc7ab8995f644'),

id: '3',

product\_name: 'Refined Steel Car',

product\_price: 690,

product\_material: 'Rubber',

product\_color: 'gold'

}

{

\_id: ObjectId('65e03010b18dc7ab8995f646'),

id: '5',

product\_name: 'Sleek Cotton Chair',

product\_price: 33,

product\_material: 'Fresh',

product\_color: 'black'

}

{

\_id: ObjectId('65e03010b18dc7ab8995f649'),

id: '8',

product\_name: 'Incredible Steel Hat',

product\_price: 78,

product\_material: 'Rubber',

product\_color: 'violet'

}

{

\_id: ObjectId('65e03010b18dc7ab8995f64a'),

id: '9',

product\_name: 'Awesome Wooden Ball',

product\_price: 28,

product\_material: 'Soft',

product\_color: 'azure'

}

{

\_id: ObjectId('65e03010b18dc7ab8995f64b'),

id: '10',

product\_name: 'Generic Wooden Pizza',

product\_price: 84,

product\_material: 'Frozen',

product\_color: 'indigo'

}

{

\_id: ObjectId('65e03010b18dc7ab8995f64c'),

id: '11',

product\_name: 'Unbranded Wooden Cheese',

product\_price: 26,

product\_material: 'Soft',

product\_color: 'black'

}

{

\_id: ObjectId('65e03010b18dc7ab8995f64d'),

id: '12',

product\_name: 'Unbranded Plastic Salad',

product\_price: 89,

product\_material: 'Wooden',

product\_color: 'pink'

}

{

\_id: ObjectId('65e03010b18dc7ab8995f64e'),

id: '13',

product\_name: 'Gorgeous Cotton Keyboard',

product\_price: 37,

product\_material: 'Concrete',

product\_color: 'sky blue'

}

{

\_id: ObjectId('65e03010b18dc7ab8995f64f'),

id: '14',

product\_name: 'Incredible Steel Shirt',

product\_price: 54,

product\_material: 'Metal',

product\_color: 'white'

}

{

\_id: ObjectId('65e03010b18dc7ab8995f650'),

id: '15',

product\_name: 'Ergonomic Cotton Hat',

product\_price: 43,

product\_material: 'Rubber',

product\_color: 'mint green'

}

{

\_id: ObjectId('65e03010b18dc7ab8995f651'),

id: '16',

product\_name: 'Small Soft Chair',

product\_price: 47,

product\_material: 'Cotton',

product\_color: 'teal'

}

{

\_id: ObjectId('65e03010b18dc7ab8995f653'),

id: '18',

product\_name: 'Licensed Plastic Bacon',

product\_price: 88,

product\_material: 'Steel',

product\_color: 'yellow'

}

{

\_id: ObjectId('65e03010b18dc7ab8995f654'),

id: '19',

product\_name: 'Intelligent Cotton Chips',

product\_price: 46,

product\_material: 'Soft',

product\_color: 'azure'

}

{

\_id: ObjectId('65e03010b18dc7ab8995f655'),

id: '20',

product\_name: 'Handcrafted Wooden Bacon',

product\_price: 36,

product\_material: 'Concrete',

product\_color: 'lime'

}

{

\_id: ObjectId('65e03010b18dc7ab8995f656'),

id: '21',

product\_name: 'Unbranded Granite Chicken',

product\_price: 90,

product\_material: 'Metal',

product\_color: 'gold'

}

{

\_id: ObjectId('65e03010b18dc7ab8995f657'),

id: '22',

product\_name: 'Ergonomic Soft Hat',

product\_price: 99,

product\_material: 'Rubber',

product\_color: 'black'

}

{

\_id: ObjectId('65e03010b18dc7ab8995f658'),

id: '23',

product\_name: 'Intelligent Steel Pizza',

product\_price: 95,

product\_material: 'Cotton',

product\_color: 'azure'

}

{

\_id: ObjectId('65e03010b18dc7ab8995f659'),

id: '24',

product\_name: 'Tasty Rubber Cheese',

product\_price: 47,

product\_material: 'Frozen',

product\_color: 'orchid'

}

{

\_id: ObjectId('65e03010b18dc7ab8995f65a'),

id: '25',

product\_name: 'Licensed Steel Car',

product\_price: 20,

product\_material: 'Cotton',

product\_color: 'indigo'

}

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

Ans: db.products.find({'product\_price':{$gte:500}});

{

\_id: ObjectId('65e03010b18dc7ab8995f642'),

id: '1',

product\_name: 'Intelligent Fresh Chips',

product\_price: 655,

product\_material: 'Concrete',

product\_color: 'mint green'

}

{

\_id: ObjectId('65e03010b18dc7ab8995f643'),

id: '2',

product\_name: 'Practical Fresh Sausages',

product\_price: 911,

product\_material: 'Cotton',

product\_color: 'indigo'

}

{

\_id: ObjectId('65e03010b18dc7ab8995f644'),

id: '3',

product\_name: 'Refined Steel Car',

product\_price: 690,

product\_material: 'Rubber',

product\_color: 'gold'

}

{

\_id: ObjectId('65e03010b18dc7ab8995f648'),

id: '7',

product\_name: 'Practical Soft Shoes',

product\_price: 500,

product\_material: 'Rubber',

product\_color: 'pink'

}

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

Ans: db.products.find({},{'product\_name':1,'product\_material':1});

{

\_id: ObjectId('65e03010b18dc7ab8995f642'),

product\_name: 'Intelligent Fresh Chips',

product\_material: 'Concrete'

{

\_id: ObjectId('65e03010b18dc7ab8995f643'),

product\_name: 'Practical Fresh Sausages',

product\_material: 'Cotton'

}

{

\_id: ObjectId('65e03010b18dc7ab8995f644'),

product\_name: 'Refined Steel Car',

product\_material: 'Rubber'

}

.

.

.

{

\_id: ObjectId('65e03010b18dc7ab8995f655'),

product\_name: 'Handcrafted Wooden Bacon',

product\_material: 'Concrete'

}

1. Find the product with a row id of 10

Ans: db.products.findOne({'id':'10'});

{

\_id: ObjectId('65e03010b18dc7ab8995f64b'),

id: '10',

product\_name: 'Generic Wooden Pizza',

product\_price: 84,

product\_material: 'Frozen',

product\_color: 'indigo'

}

1. Find only the product name and product material

Ans: 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: 'Handcrafted Wooden Bacon',

product\_material: 'Concrete'

}

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

Ans: db.products.find({'product\_material':'Soft'});

{

\_id: ObjectId('65e03010b18dc7ab8995f645'),

id: '4',

product\_name: 'Gorgeous Plastic Pants',

product\_price: 492,

product\_material: 'Soft',

product\_color: 'plum'

}

{

\_id: ObjectId('65e03010b18dc7ab8995f64a'),

id: '9',

product\_name: 'Awesome Wooden Ball',

product\_price: 28,

product\_material: 'Soft',

product\_color: 'azure'

}

{

\_id: ObjectId('65e03010b18dc7ab8995f64c'),

id: '11',

product\_name: 'Unbranded Wooden Cheese',

product\_price: 26,

product\_material: 'Soft',

product\_color: 'black'

}

{

\_id: ObjectId('65e03010b18dc7ab8995f654'),

id: '19',

product\_name: 'Intelligent Cotton Chips',

product\_price: 46,

product\_material: 'Soft',

product\_color: 'azure'

}

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

Ans: db.products.find({$or:[{'product\_color':'indigo'},{'product\_price':492}]});

{

\_id: ObjectId('65e03010b18dc7ab8995f643'),

id: '2',

product\_name: 'Practical Fresh Sausages',

product\_price: 911,

product\_material: 'Cotton',

product\_color: 'indigo'

}

{

\_id: ObjectId('65e03010b18dc7ab8995f645'),

id: '4',

product\_name: 'Gorgeous Plastic Pants',

product\_price: 492,

product\_material: 'Soft',

product\_color: 'plum'

}

{

\_id: ObjectId('65e03010b18dc7ab8995f64b'),

id: '10',

product\_name: 'Generic Wooden Pizza',

product\_price: 84,

product\_material: 'Frozen',

product\_color: 'indigo'

}

{

\_id: ObjectId('65e03010b18dc7ab8995f652'),

id: '17',

product\_name: 'Incredible Metal Car',

product\_price: 36,

product\_material: 'Fresh',

product\_color: 'indigo'

}

1. Delete the products which product price value are same

Ans: db.products.deleteOne({'product\_price':36});

{

acknowledged: true,

deletedCount: 1

}