db.products.insertMany([

{

"\_id": 1,

"name": "xPhone",

"price": 799,

"releaseDate": new Date("2011-05-14T00:00:00Z"), // Replaced ISODate with new Date()

"spec": { "ram": 4, "screen": 6.5, "cpu": 2.66 },

"color": ["white", "black"],

"storage": [64, 128, 256]

},

{

"\_id": 2,

"name": "xTablet",

"price": 899,

"releaseDate": new Date("2011-09-01T00:00:00Z"), // Replaced ISODate with new Date()

"spec": { "ram": 16, "screen": 9.5, "cpu": 3.66 },

"color": ["white", "black", "purple"],

"storage": [128, 256, 512]

},

{

"\_id": 3,

"name": "SmartTablet",

"price": 899,

"releaseDate": new Date("2015-01-14T00:00:00Z"), // Replaced ISODate with new Date()

"spec": { "ram": 12, "screen": 9.7, "cpu": 3.66 },

"color": ["blue"],

"storage": [16, 64, 128]

},

{

"\_id": 4,

"name": "SmartPad",

"price": 699,

"releaseDate": new Date("2020-05-14T00:00:00Z"), // Replaced ISODate with new Date()

"spec": { "ram": 8, "screen": 9.7, "cpu": 1.66 },

"color": ["white", "orange", "gold", "gray"],

"storage": [128, 256, 1024]

},

{

"\_id": 5,

"name": "SmartPhone",

"price": 599,

"releaseDate": new Date("2022-09-14T00:00:00Z"), // Replaced ISODate with new Date()

"spec": { "ram": 4, "screen": 9.7, "cpu": 1.66 },

"color": ["white", "orange", "gold", "gray"],

"storage": [128, 256]

}

]);

[**MongoBulkWriteError:**](file:///C:\Users\likhith\AppData\Local\MongoDBCompass\app-1.46.3\resources\app.asar\build\index.html) E11000 duplicate key error collection: vit.products index: \_id\_ dup key: { \_id: 1 }

db.products.deleteMany({});

db.products.insertMany([

{

"\_id": 1,

"name": "xPhone",

"price": 799,

"releaseDate": new Date("2011-05-14T00:00:00Z"),

"spec": { "ram": 4, "screen": 6.5, "cpu": 2.66 },

"color": ["white", "black"],

"storage": [64, 128, 256]

},

{

"\_id": 2,

"name": "xTablet",

"price": 899,

"releaseDate": new Date("2011-09-01T00:00:00Z"),

"spec": { "ram": 16, "screen": 9.5, "cpu": 3.66 },

"color": ["white", "black", "purple"],

"storage": [128, 256, 512]

},

{

"\_id": 3,

"name": "SmartTablet",

"price": 899,

"releaseDate": new Date("2015-01-14T00:00:00Z"),

"spec": { "ram": 12, "screen": 9.7, "cpu": 3.66 },

"color": ["blue"],

"storage": [16, 64, 128]

},

{

"\_id": 4,

"name": "SmartPad",

"price": 699,

"releaseDate": new Date("2020-05-14T00:00:00Z"),

"spec": { "ram": 8, "screen": 9.7, "cpu": 1.66 },

"color": ["white", "orange", "gold", "gray"],

"storage": [128, 256, 1024]

},

{

"\_id": 5,

"name": "SmartPhone",

"price": 599,

"releaseDate": new Date("2022-09-14T00:00:00Z"),

"spec": { "ram": 4, "screen": 9.7, "cpu": 1.66 },

"color": ["white", "orange", "gold", "gray"],

"storage": [128, 256]

}

]);

{

acknowledged: true,

insertedIds: {

**'0'**: 1,

**'1'**: 2,

**'2'**: 3,

**'3'**: 4,

**'4'**: 5

}

}

db.products.find({

})

{

\_id: 1,

name: **'xPhone'**,

price: 799,

releaseDate: 2011-05-14T00:00:00.000Z,

spec: {

ram: 4,

screen: 6.5,

cpu: 2.66

},

color: [

**'white'**,

**'black'**

],

storage: [

64,

128,

256

]

}

{

\_id: 2,

name: **'xTablet'**,

price: 899,

releaseDate: 2011-09-01T00:00:00.000Z,

spec: {

ram: 16,

screen: 9.5,

cpu: 3.66

},

color: [

**'white'**,

**'black'**,

**'purple'**

],

storage: [

128,

256,

512

]

}

{

\_id: 3,

name: **'SmartTablet'**,

price: 899,

releaseDate: 2015-01-14T00:00:00.000Z,

spec: {

ram: 12,

screen: 9.7,

cpu: 3.66

},

color: [

**'blue'**

],

storage: [

16,

64,

128

]

}

{

\_id: 4,

name: **'SmartPad'**,

price: 699,

releaseDate: 2020-05-14T00:00:00.000Z,

spec: {

ram: 8,

screen: 9.7,

cpu: 1.66

},

color: [

**'white'**,

**'orange'**,

**'gold'**,

**'gray'**

],

storage: [

128,

256,

1024

]

}

{

\_id: 5,

name: **'SmartPhone'**,

price: 599,

releaseDate: 2022-09-14T00:00:00.000Z,

spec: {

ram: 4,

screen: 9.7,

cpu: 1.66

},

color: [

**'white'**,

**'orange'**,

**'gold'**,

**'gray'**

],

storage: [

128,

256

]

}

db.products.find({

color : {}})

db.products.find({

color: "white"

})

{

\_id: 1,

name: **'xPhone'**,

price: 799,

releaseDate: 2011-05-14T00:00:00.000Z,

spec: {

ram: 4,

screen: 6.5,

cpu: 2.66

},

color: [

**'white'**,

**'black'**

],

storage: [

64,

128,

256

]

}

{

\_id: 2,

name: **'xTablet'**,

price: 899,

releaseDate: 2011-09-01T00:00:00.000Z,

spec: {

ram: 16,

screen: 9.5,

cpu: 3.66

},

color: [

**'white'**,

**'black'**,

**'purple'**

],

storage: [

128,

256,

512

]

}

{

\_id: 4,

name: **'SmartPad'**,

price: 699,

releaseDate: 2020-05-14T00:00:00.000Z,

spec: {

ram: 8,

screen: 9.7,

cpu: 1.66

},

color: [

**'white'**,

**'orange'**,

**'gold'**,

**'gray'**

],

storage: [

128,

256,

1024

]

}

{

\_id: 5,

name: **'SmartPhone'**,

price: 599,

releaseDate: 2022-09-14T00:00:00.000Z,

spec: {

ram: 4,

screen: 9.7,

cpu: 1.66

},

color: [

**'white'**,

**'orange'**,

**'gold'**,

**'gray'**

],

storage: [

128,

256

]

}

db.products.find({

color: { $in: ["white", "blue"] }

})

{

\_id: 1,

name: **'xPhone'**,

price: 799,

releaseDate: 2011-05-14T00:00:00.000Z,

spec: {

ram: 4,

screen: 6.5,

cpu: 2.66

},

color: [

**'white'**,

**'black'**

],

storage: [

64,

128,

256

]

}

{

\_id: 2,

name: **'xTablet'**,

price: 899,

releaseDate: 2011-09-01T00:00:00.000Z,

spec: {

ram: 16,

screen: 9.5,

cpu: 3.66

},

color: [

**'white'**,

**'black'**,

**'purple'**

],

storage: [

128,

256,

512

]

}

{

\_id: 3,

name: **'SmartTablet'**,

price: 899,

releaseDate: 2015-01-14T00:00:00.000Z,

spec: {

ram: 12,

screen: 9.7,

cpu: 3.66

},

color: [

**'blue'**

],

storage: [

16,

64,

128

]

}

{

\_id: 4,

name: **'SmartPad'**,

price: 699,

releaseDate: 2020-05-14T00:00:00.000Z,

spec: {

ram: 8,

screen: 9.7,

cpu: 1.66

},

color: [

**'white'**,

**'orange'**,

**'gold'**,

**'gray'**

],

storage: [

128,

256,

1024

]

}

{

\_id: 5,

name: **'SmartPhone'**,

price: 599,

releaseDate: 2022-09-14T00:00:00.000Z,

spec: {

ram: 4,

screen: 9.7,

cpu: 1.66

},

color: [

**'white'**,

**'orange'**,

**'gold'**,

**'gray'**

],

storage: [

128,

256

]

}

db.products.find({

color: { $all: ["white", "black"] }

})

{

\_id: 1,

name: **'xPhone'**,

price: 799,

releaseDate: 2011-05-14T00:00:00.000Z,

spec: {

ram: 4,

screen: 6.5,

cpu: 2.66

},

color: [

**'white'**,

**'black'**

],

storage: [

64,

128,

256

]

}

{

\_id: 2,

name: **'xTablet'**,

price: 899,

releaseDate: 2011-09-01T00:00:00.000Z,

spec: {

ram: 16,

screen: 9.5,

cpu: 3.66

},

color: [

**'white'**,

**'black'**,

**'purple'**

],

storage: [

128,

256,

512

]

}

db.products.find({

color: { $ne: "gray" }

})

{

\_id: 1,

name: **'xPhone'**,

price: 799,

releaseDate: 2011-05-14T00:00:00.000Z,

spec: {

ram: 4,

screen: 6.5,

cpu: 2.66

},

color: [

**'white'**,

**'black'**

],

storage: [

64,

128,

256

]

}

{

\_id: 2,

name: **'xTablet'**,

price: 899,

releaseDate: 2011-09-01T00:00:00.000Z,

spec: {

ram: 16,

screen: 9.5,

cpu: 3.66

},

color: [

**'white'**,

**'black'**,

**'purple'**

],

storage: [

128,

256,

512

]

}

{

\_id: 3,

name: **'SmartTablet'**,

price: 899,

releaseDate: 2015-01-14T00:00:00.000Z,

spec: {

ram: 12,

screen: 9.7,

cpu: 3.66

},

color: [

**'blue'**

],

storage: [

16,

64,

128

]

}

db.products.find({

color: { $size: 4 }

})

{

\_id: 4,

name: **'SmartPad'**,

price: 699,

releaseDate: 2020-05-14T00:00:00.000Z,

spec: {

ram: 8,

screen: 9.7,

cpu: 1.66

},

color: [

**'white'**,

**'orange'**,

**'gold'**,

**'gray'**

],

storage: [

128,

256,

1024

]

}

{

\_id: 5,

name: **'SmartPhone'**,

price: 599,

releaseDate: 2022-09-14T00:00:00.000Z,

spec: {

ram: 4,

screen: 9.7,

cpu: 1.66

},

color: [

**'white'**,

**'orange'**,

**'gold'**,

**'gray'**

],

storage: [

128,

256

]

}

db.products.find({

"spec.ram": { $gt: 8 }

})

{

\_id: 2,

name: **'xTablet'**,

price: 899,

releaseDate: 2011-09-01T00:00:00.000Z,

spec: {

ram: 16,

screen: 9.5,

cpu: 3.66

},

color: [

**'white'**,

**'black'**,

**'purple'**

],

storage: [

128,

256,

512

]

}

{

\_id: 3,

name: **'SmartTablet'**,

price: 899,

releaseDate: 2015-01-14T00:00:00.000Z,

spec: {

ram: 12,

screen: 9.7,

cpu: 3.66

},

color: [

**'blue'**

],

storage: [

16,

64,

128

]

}

db.products.find({

"spec.screen": { $gte: 6, $lte: 9 }

})

{

\_id: 1,

name: **'xPhone'**,

price: 799,

releaseDate: 2011-05-14T00:00:00.000Z,

spec: {

ram: 4,

screen: 6.5,

cpu: 2.66

},

color: [

**'white'**,

**'black'**

],

storage: [

64,

128,

256

]

}

db.products.find({

releaseDate: { $gt: new Date("2015-01-01T00:00:00Z") }

})

{

\_id: 3,

name: **'SmartTablet'**,

price: 899,

releaseDate: 2015-01-14T00:00:00.000Z,

spec: {

ram: 12,

screen: 9.7,

cpu: 3.66

},

color: [

**'blue'**

],

storage: [

16,

64,

128

]

}

{

\_id: 4,

name: **'SmartPad'**,

price: 699,

releaseDate: 2020-05-14T00:00:00.000Z,

spec: {

ram: 8,

screen: 9.7,

cpu: 1.66

},

color: [

**'white'**,

**'orange'**,

**'gold'**,

**'gray'**

],

storage: [

128,

256,

1024

]

}

{

\_id: 5,

name: **'SmartPhone'**,

price: 599,

releaseDate: 2022-09-14T00:00:00.000Z,

spec: {

ram: 4,

screen: 9.7,

cpu: 1.66

},

color: [

**'white'**,

**'orange'**,

**'gold'**,

**'gray'**

],

storage: [

128,

256

]

}

vit

Selection deleted