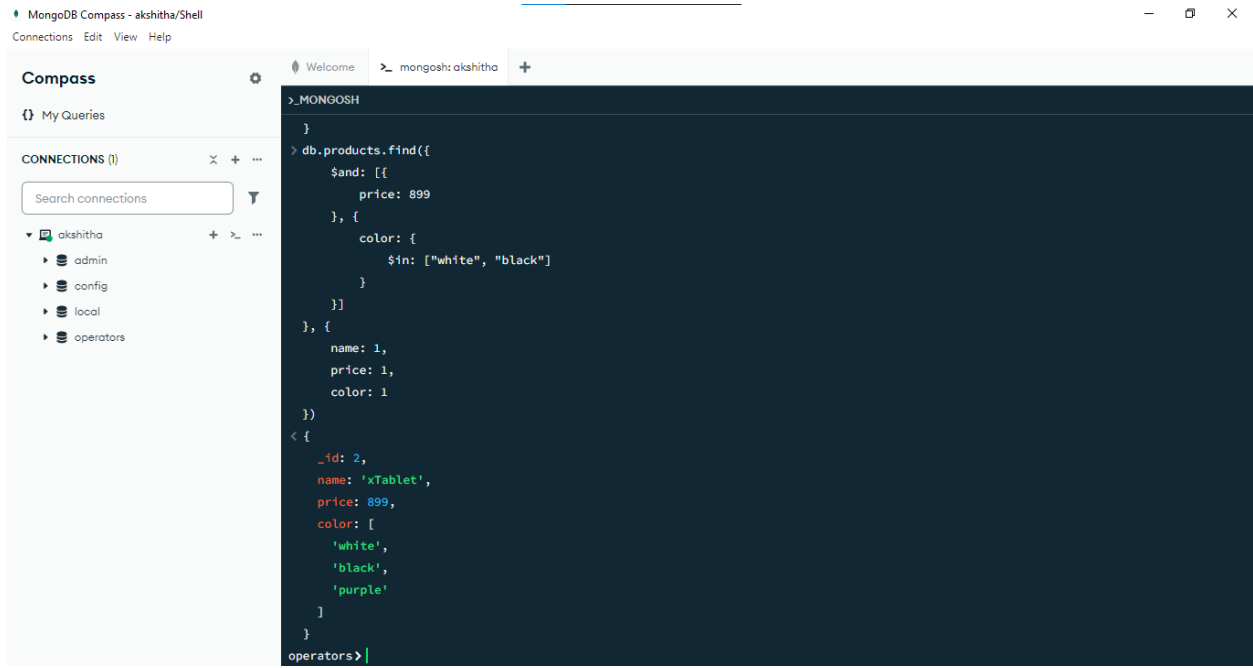


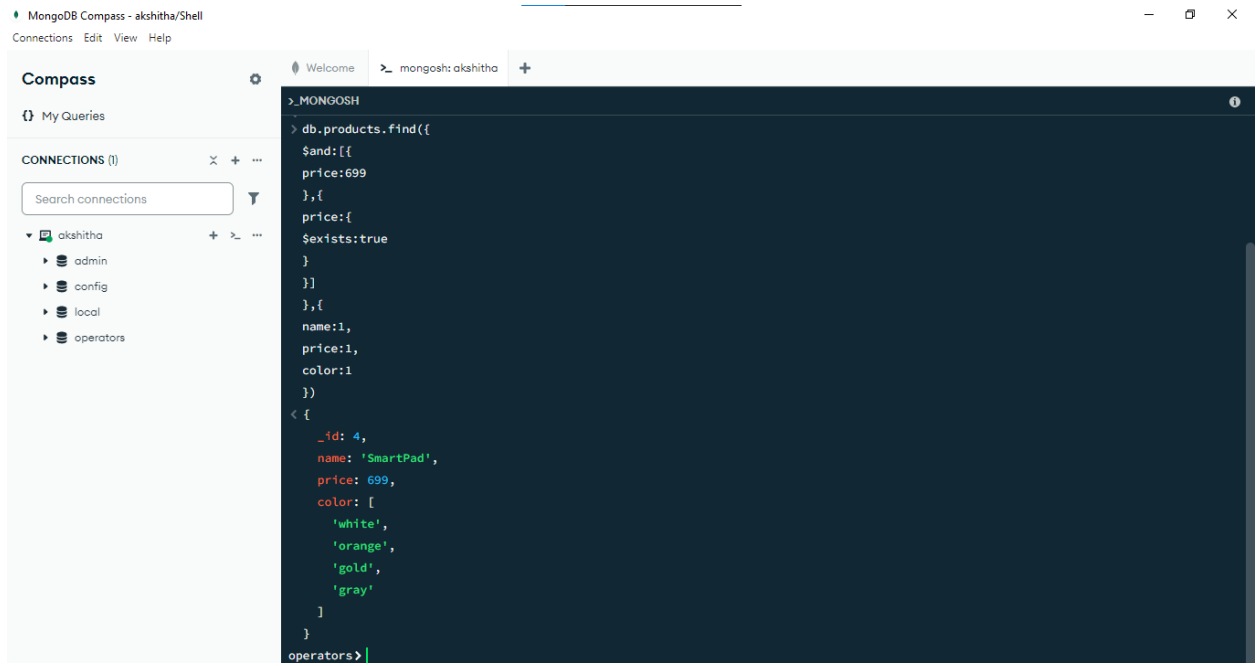
MONGODB

And operator:



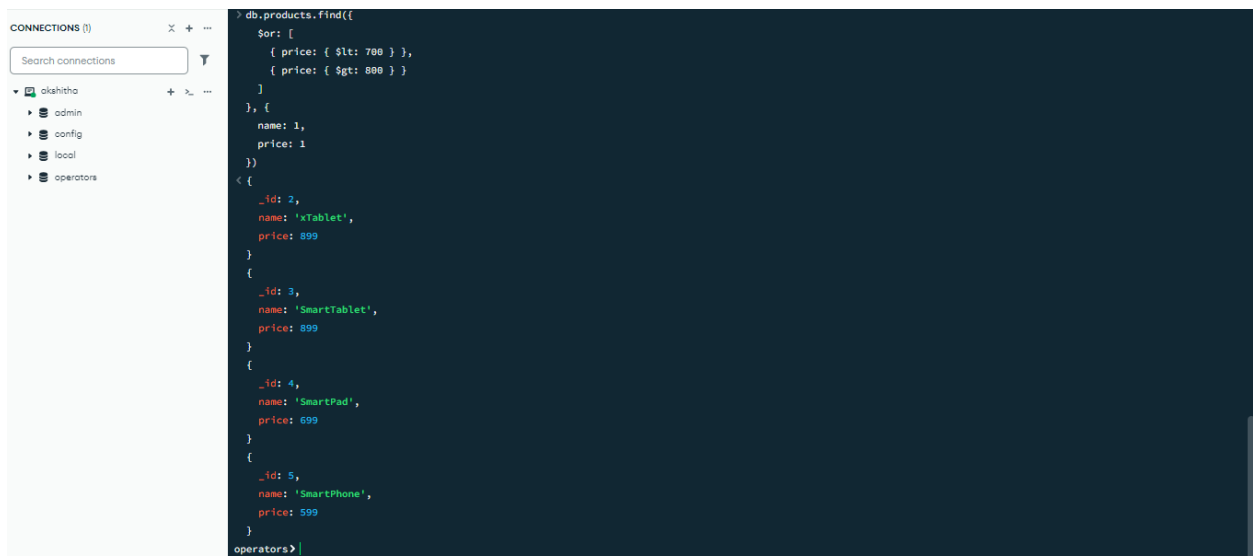
Element Operators:

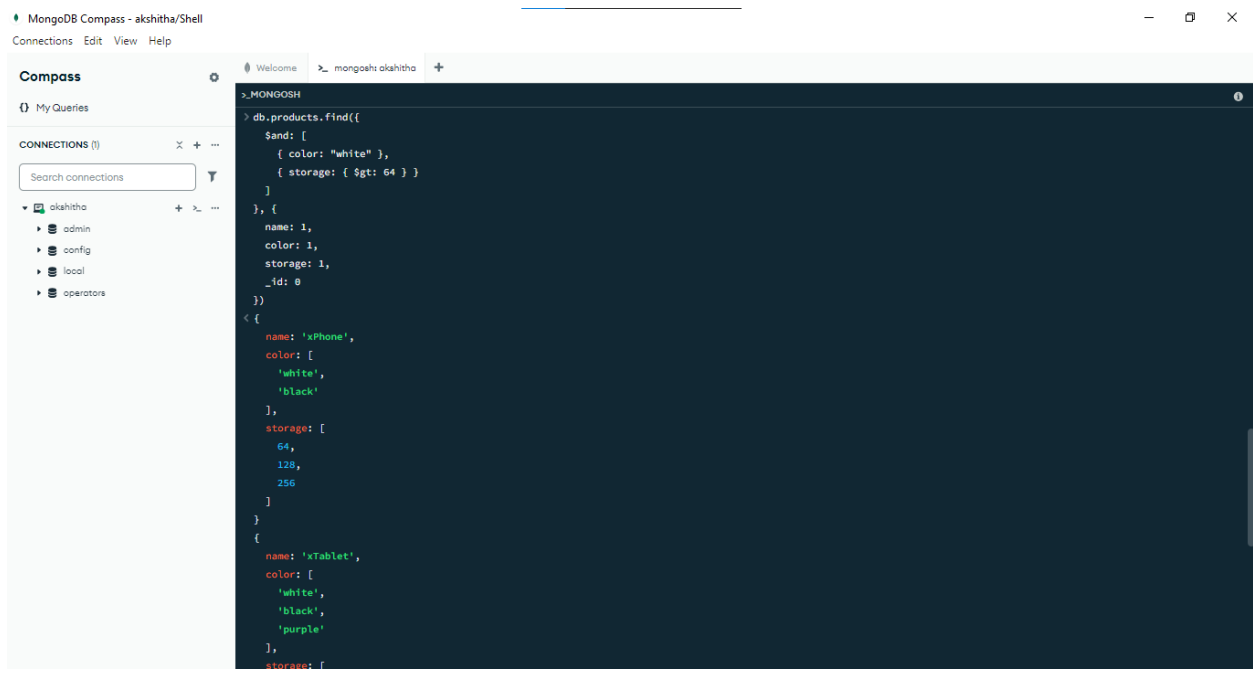
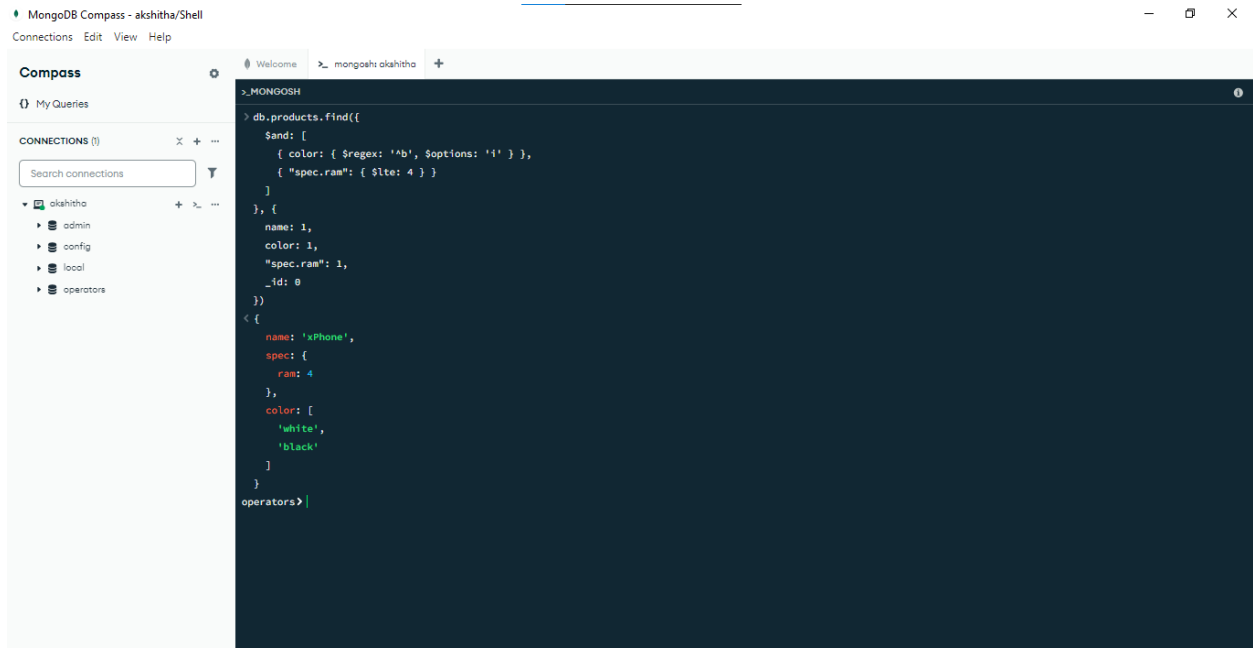
- \$exists



```
> db.products.find({price:{$eq:699,$exists:true}},{name:1,price:1})
< {
  _id: 4,
  name: 'SmartPad',
  price: 699
}
```

Or operator:





Not operator:

CONNECTIONS (1)
Search connections
akshitha
admin
config
local
operators

```
db.products.find({
  price: {
    $not: {
      $gt: 699
    }
  }
}, {
  name: 1,
  price: 1
})
< {
  _id: 4,
  name: 'SmartPad',
  price: 699
}
{
  _id: 5,
  name: 'SmartPhone',
  price: 599
}
{
  _id: 6,
  name: 'xWidget'
}
operators>
```

admin
config
local
operators

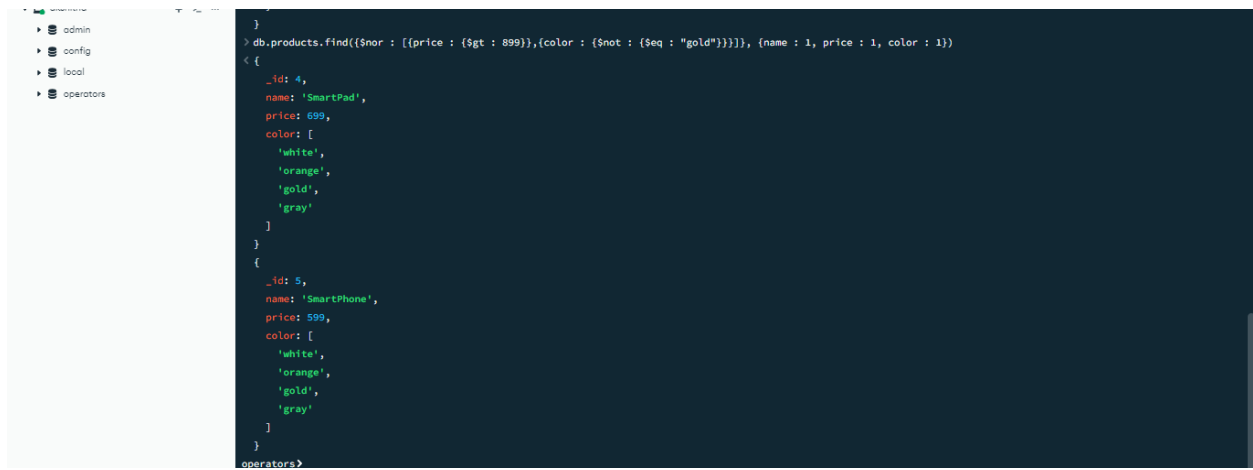
```
db.products.find(
  {
    name: { $not: /smart/i }
  },
  {
    name: 1,
    price: 1
  }
)
< {
  _id: 1,
  name: 'xPhone',
  price: 799
}
{
  _id: 2,
  name: 'xTablet',
  price: 899
}
{
  _id: 6,
  name: 'xWidget'
}
operators>
```

Nor(operator):



The screenshot shows the MongoDB Compass interface. On the left, a sidebar lists connections: 'akshitha' (selected), 'admin', 'config', 'local', and 'operators'. The main area displays a query in the 'Query' tab:

```
> db.products.find({
  $nor: [
    {price:899},
    {color:"gold"}
  ]},{
  name:1,
  price:1,
  color:1,
  _id:0
})
< {
  name: 'xPhone',
  price: 799,
  color: [
    'white',
    'black'
  ]
}
{
  name: 'xWidget',
  color: [
    'black'
  ]
}
operators>
```



The screenshot shows the MongoDB Compass interface. On the left, a sidebar lists connections: 'akshitha' (selected), 'admin', 'config', 'local', and 'operators'. The main area displays a query in the 'Query' tab:

```
> db.products.find({$nor : [{price : {$gt : 899}},{color : {$not : {$eq : "gold"}}}]}, {name : 1, price : 1, color : 1})
< {
  _id: 4,
  name: 'SmartPad',
  price: 699,
  color: [
    'white',
    'orange',
    'gold',
    'gray'
  ]
}
{
  _id: 5,
  name: 'SmartPhone',
  price: 599,
  color: [
    'white',
    'orange',
    'gold',
    'gray'
  ]
}
operators>
```

Exists:

Compass

My Queries

CONNECTIONS (1)

Search connections

akshitha

- admin
- config
- local
- operators

```
> use products
> db.products.find(
  {
    price: {
      $exists: true
    }
  }, {
    _id: 1,
    name: 'xPhone',
    price: 799
  }, {
    _id: 2,
    name: 'xTablet',
    price: 899
  }, {
    _id: 3,
    name: 'SmartTablet',
    price: 899
  }, {
    _id: 4,
    name: 'SmartPad',
    price: 699
  }, {
    _id: 5,
    name: 'SmartPhone',
    price: 699
  }, {
    _id: 7,
    name: 'xReader',
    price: null
  }
)
operators}
```

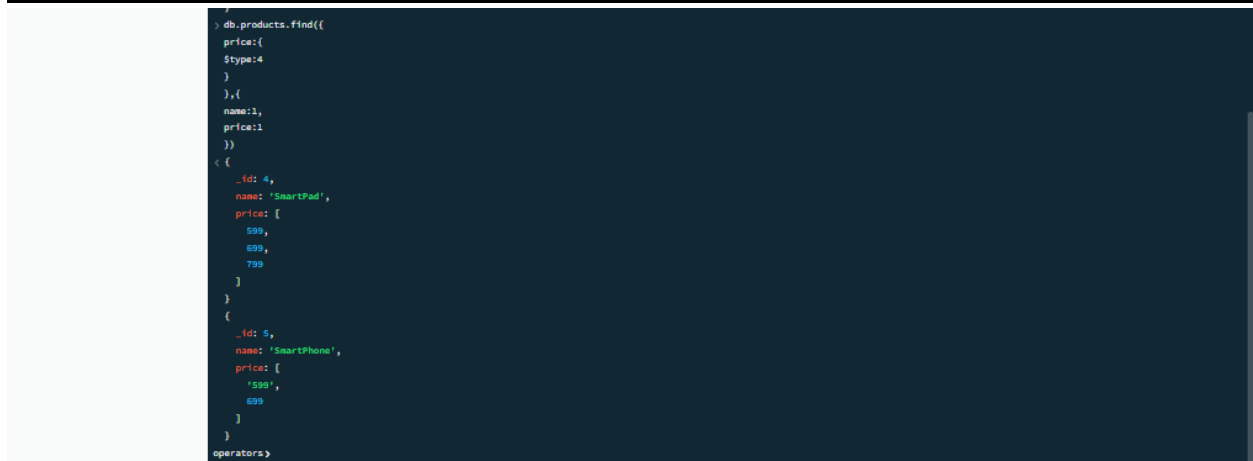
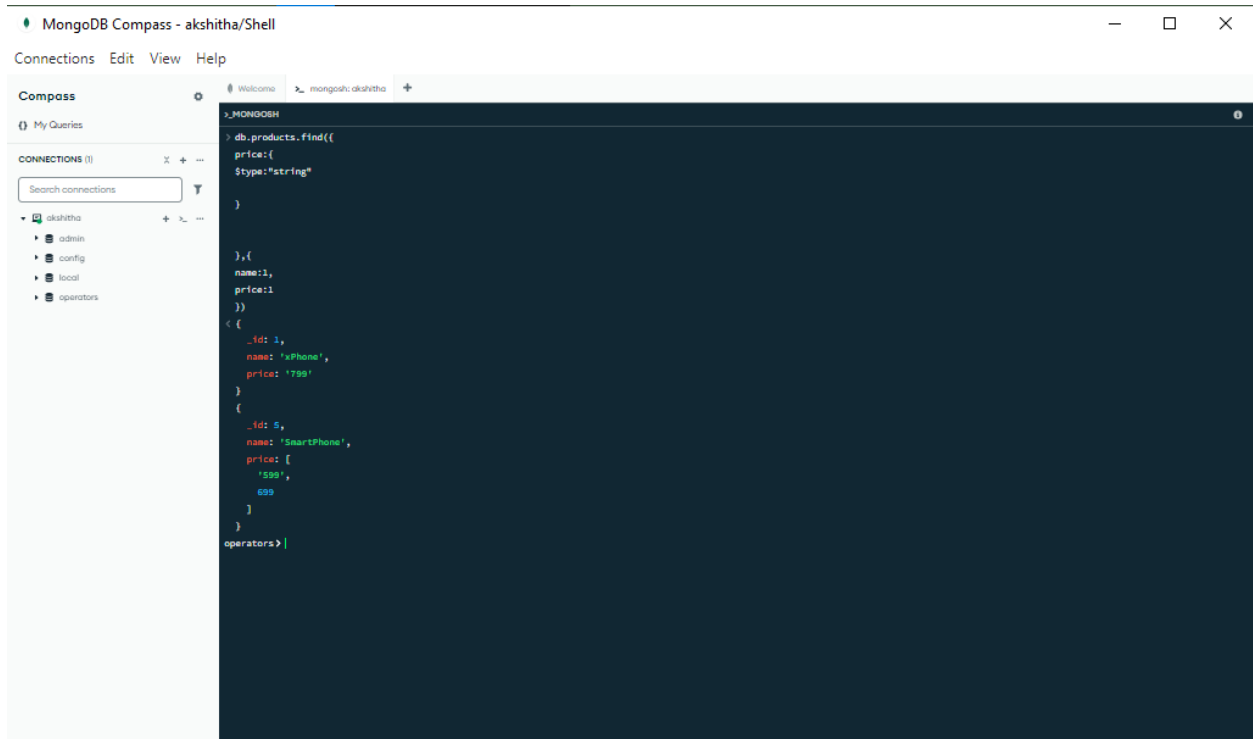
admin

local

operators

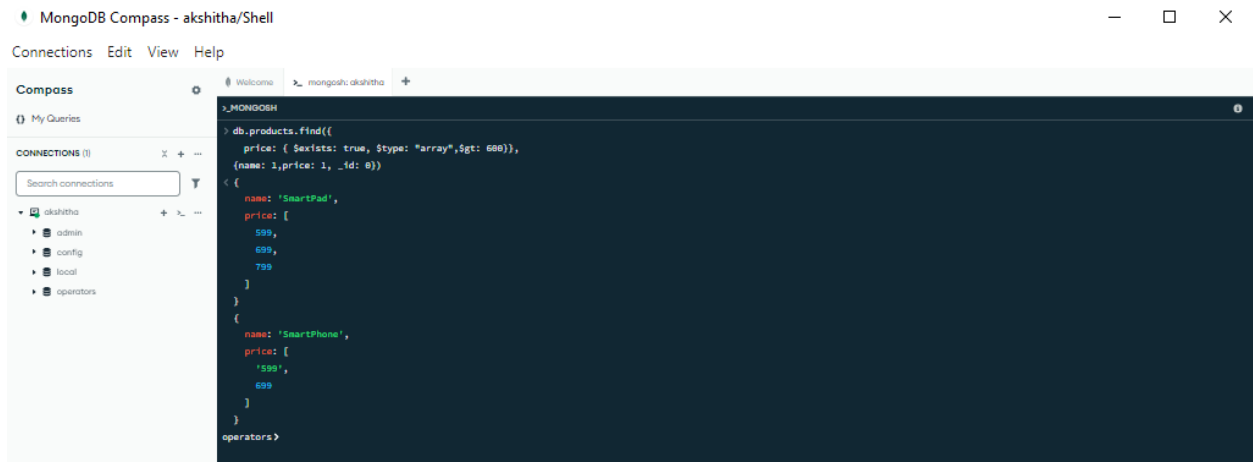
```
> db.products.find(
  {
    $or: [
      { releaseDate: { $exists: false } },
      { "spec.ram": { $gt: 8 } }
    ]
  }, {
    name: 1, releaseDate: 1, "spec.ram": 1, _id: 0
  }
)
{
  name: 'xTablet',
  releaseDate: 2011-09-01T00:00:00.000Z,
  spec: {
    ram: 16
  }
}
{
  name: 'SmartTablet',
  releaseDate: 2015-01-14T00:00:00.000Z,
  spec: {
    ram: 12
  }
}
{
  name: 'xWidget',
  spec: {
    ram: 64
  }
}
{
  name: 'xReader',
  spec: {
    ram: 64
  }
}
}
operators}
```

Type(operator):

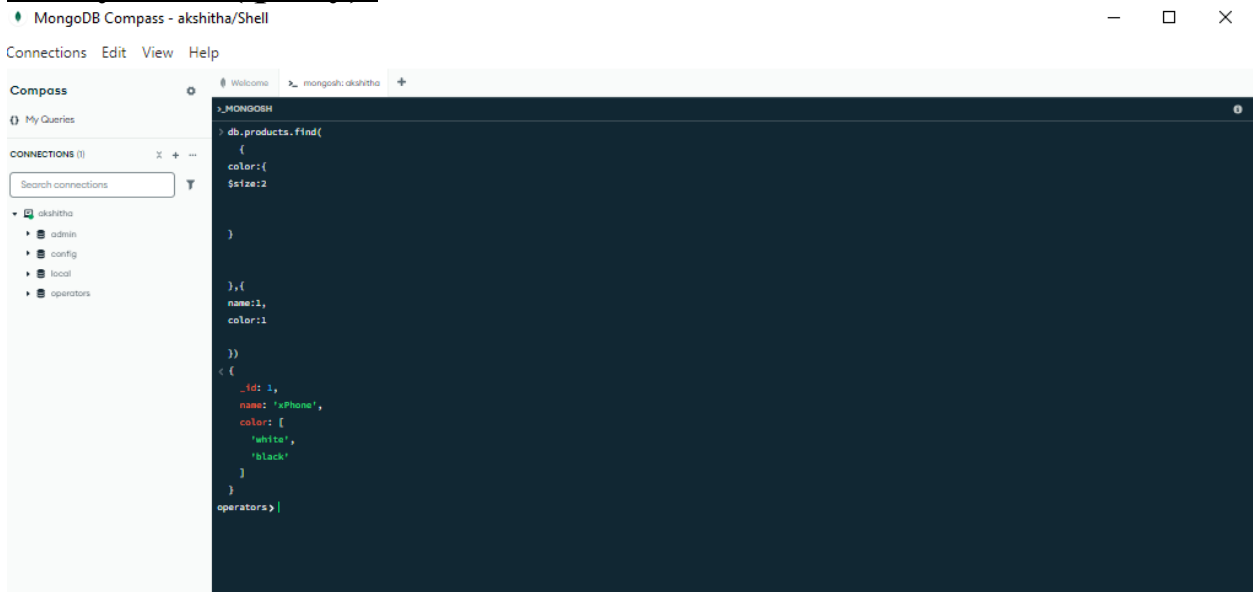


Two types without using and or (or) operator:

```
> db.products.find((price:{$type:1},price:{$type:2}),(name:1,price:1));
{
  "_id": 1,
  "name": "iPhone",
  "price": "799"
}
{
  "_id": 5,
  "name": "SmartPhone",
  "price": [
    "599",
    699
  ]
}
operators>
```



Array index(query):



akshitha

- admin
- config
- local
- operators

```
}
> db.products.find({
  $or: [
    { color: { $size: 1 } },
    { color: { $size: 2 } }
  ]
}, {
  name: 1,
  color: 1
})
< (
  _id: 1,
  name: 'iPhone',
  color: [
    'white',
    'black'
  ]
)
{
  _id: 3,
  name: 'SmartTablet',
  color: [
    'blue'
  ]
}
{
  _id: 6,
  name: 'Widget',
  color: [
    'black'
  ]
}
operators>
```