

```
> db.products.find({color:{$all:["black","white"]}}, {name:1, color:1})
< {
  _id: 1,
  name: 'xPhone',
  color: [
    'white',
    'black'
  ]
}
{
  _id: 2,
  name: 'xTablet',
  color: [
    'white',
    'black',
    'purple'
  ]
}
```

```
> db.products.find({color:{$eq:"black"}}, {name:1, price:1})
< {
  _id: 1,
  name: 'xPhone',
  price: 799
}
{
  _id: 2,
  name: 'xTablet',
  price: 899
}
```

```
> db.products.find({storage:{$elemMatch:{$lt: 128}}},{name:1, storage:1})
< {
  _id: 1,
  name: 'xPhone',
  storage: [
    64,
    128,
    256
  ]
}
{
  _id: 3,
  name: 'SmartTablet',
  storage: [
    16,
    64,
    128
  ]
}
```

```
> db.products.find({price:{$exists:true}},{name:1, price:1}).sort({price:1})
< {
  _id: 7,
  name: 'xReader',
  price: null
}
{
  _id: 5,
  name: 'SmartPhone',
  price: 599
}
{
  _id: 4,
  name: 'SmartPad',
  price: 699
}
{
  _id: 1,
  name: 'xPhone',
  price: 799
}
{
  _id: 2,
  name: 'xTablet',
  price: 899
}
{
  _id: 3,
```

```
> db.products.find({price:{$exists:true}}, {name:1, price:1}).sort({price:1, name:-1})
< {
  _id: 7,
  name: 'xReader',
  price: null
}
{
  _id: 5,
  name: 'SmartPhone',
  price: 599
}
{
  _id: 4,
  name: 'SmartPad',
  price: 699
}
{
  _id: 1,
  name: 'xPhone',
  price: 799
}
{
  _id: 2,
  name: 'xTablet',
  price: 899
}
{
  _id: 3,
  name: 'SmartTablet',
```

```
db.products.find({releaseDate:{$exists:true}},{name:1, releaseDate:1}).sort({releaseDate:1})
{
  _id: 1,
  name: 'xPhone',
  releaseDate: 2011-05-14T00:00:00.000Z
}
{
  _id: 2,
  name: 'xTablet',
  releaseDate: 2011-09-01T00:00:00.000Z
}
{
  _id: 3,
  name: 'SmartTablet',
  releaseDate: 2015-01-14T00:00:00.000Z
}
{
  _id: 4,
  name: 'SmartPad',
  releaseDate: 2020-05-14T00:00:00.000Z
}
{
  _id: 5,
  name: 'SmartPhone',
  releaseDate: 2022-09-14T00:00:00.000Z
}
```

```
> db.products.find({}, {name:1, spec:1}).sort({"spec.ram":1})
```

```
< {
  _id: 1,
  name: 'xPhone',
  spec: {
    ram: 4,
    screen: 6.5,
    cpu: 2.66
  }
}
{
  _id: 5,
  name: 'SmartPhone',
  spec: {
    ram: 4,
    screen: 9.7,
    cpu: 1.66
  }
}
{
  _id: 4,
  name: 'SmartPad',
  spec: {
    ram: 8,
    screen: 9.7,
    cpu: 1.66
  }
}
{
```

```
> db.products.find({}, {name:1, price:1}).sort({price:-1}).limit(1)
```

```
< {
  _id: 2,
  name: 'xTablet',
  price: 899
}
```

```
> db.products.find({releaseDate:{$exists:1}}, {name:1, releaseDate:1}).sort({releaseDate:1}).skip
< {
  _id: 3,
  name: 'SmartTablet',
  releaseDate: 2015-01-14T00:00:00.000Z
}
{
  _id: 4,
  name: 'SmartPad',
  releaseDate: 2020-05-14T00:00:00.000Z
}
{
  _id: 5,
  name: 'SmartPhone',
  releaseDate: 2022-09-14T00:00:00.000Z
}
```

```
> db.products.updateOne({_id:1}, {$set:{price:899}})
< {
  acknowledged: true,
  insertedId: null,
  matchedCount: 1,
  modifiedCount: 1,
  upsertedCount: 0
}
> db.products.find()
< {
  _id: 1,
  name: 'xPhone',
  price: 899,
  releaseDate: 2011-05-14T00:00:00.000Z,
  spec: {
    ram: 4,
    screen: 6.5,
    cpu: 2.66
  },
  color: [
    'white',
    'black'
  ],
  storage: [
    64,
    128,
    256
  ]
}
```