```
test> use db1;

switched to db db1

db1> show collections;

teachers

db1> db.teachers.find();

[

 {

  _id: ObjectId('6710bd85b6945f20b486b01d'),

  name: 'sunil',

  age: 45,

  salary: 40000,

  dept: 'CSE'

 },

 {

  _id: ObjectId('6710bd85b6945f20b486b01e'),

  name: 'rahul',

  age: 40,

  salary: 36000,

  dept: 'CSE'

 },

 {

  _id: ObjectId('6711ff66ba94c45b4586b01d'),

  name: 'abc',

  age: 34,

  salary: 33000,

  dept: 'CSE'

 },

 {

  _id: ObjectId('6711ff77ba94c45b4586b01e'),

  name: 'aaaa',

  age: 36,
```

```
    salary: 33000,

    dept: 'CSE'

  },

  {

    _id: ObjectId('6711ff95ba94c45b4586b01f'),

    name: 'bbb',

    age: 26,

    salary: 35000,

    dept: 'CSE'

  }

]
db1> db.teachers.find({},{name: 1});

[

  { _id: ObjectId('6710bd85b6945f20b486b01d'), name: 'sunil' },

  { _id: ObjectId('6710bd85b6945f20b486b01e'), name: 'rahul' },

  { _id: ObjectId('6711ff66ba94c45b4586b01d'), name: 'abc' },

  { _id: ObjectId('6711ff77ba94c45b4586b01e'), name: 'aaaa' },

  { _id: ObjectId('6711ff95ba94c45b4586b01f'), name: 'bbb' }

]
db1> db.teachers.find({},{name: 1,_id:0});

[

  { name: 'sunil' },

  { name: 'rahul' },

  { name: 'abc' },

  { name: 'aaaa' },

  { name: 'bbb' }

]
db1> db.teachers.find({},{_id:0});

[

  { name: 'sunil', age: 45, salary: 40000, dept: 'CSE' },

  { name: 'rahul', age: 40, salary: 36000, dept: 'CSE' },
```

```
 { name: 'abc', age: 34, salary: 33000, dept: 'CSE' },
 { name: 'aaaa', age: 36, salary: 33000, dept: 'CSE' },
 { name: 'bbb', age: 26, salary: 35000, dept: 'CSE' }
]
db1> db.teachers.find({},{_id:0}).limit(3);
[
 { name: 'sunil', age: 45, salary: 40000, dept: 'CSE' },
 { name: 'rahul', age: 40, salary: 36000, dept: 'CSE' },
 { name: 'abc', age: 34, salary: 33000, dept: 'CSE' }
]
db1> db.teachers.find({},{_id:0}).sort({name : 1});
[
 { name: 'aaaa', age: 36, salary: 33000, dept: 'CSE' },
 { name: 'abc', age: 34, salary: 33000, dept: 'CSE' },
 { name: 'bbb', age: 26, salary: 35000, dept: 'CSE' },
 { name: 'rahul', age: 40, salary: 36000, dept: 'CSE' },
 { name: 'sunil', age: 45, salary: 40000, dept: 'CSE' }
]
db1> db.teachers.find({},{_id:0}).sort({name : -1});
[
 { name: 'sunil', age: 45, salary: 40000, dept: 'CSE' },
 { name: 'rahul', age: 40, salary: 36000, dept: 'CSE' },
 { name: 'bbb', age: 26, salary: 35000, dept: 'CSE' },
 { name: 'abc', age: 34, salary: 33000, dept: 'CSE' },
 { name: 'aaaa', age: 36, salary: 33000, dept: 'CSE' }
]
db1> db.teachers.find({},{_id:0,name:1,age:1}).sort({name : -1});
[
 { name: 'sunil', age: 45 },
 { name: 'rahul', age: 40 },
 { name: 'bbb', age: 26 },
```

```
  { name: 'abc', age: 34 },

  { name: 'aaaa', age: 36 }

]

db1> db.teachers.find({},{_id:0,name:1,age:1}).sort({name : 1});

[

  { name: 'aaaa', age: 36 },

  { name: 'abc', age: 34 },

  { name: 'bbb', age: 26 },

  { name: 'rahul', age: 40 },

  { name: 'sunil', age: 45 }

]

db1> db.teachers.find({},{_id:0,name:1,age:1}).sort({salary : 1});

[

  { name: 'abc', age: 34 },

  { name: 'aaaa', age: 36 },

  { name: 'bbb', age: 26 },

  { name: 'rahul', age: 40 },

  { name: 'sunil', age: 45 }

]

db1> db.teachers.find({},{_id:0,name:1,age:1,salary:1}).sort({salary : 1});

[

  { name: 'abc', age: 34, salary: 33000 },

  { name: 'aaaa', age: 36, salary: 33000 },

  { name: 'bbb', age: 26, salary: 35000 },

  { name: 'rahul', age: 40, salary: 36000 },

  { name: 'sunil', age: 45, salary: 40000 }

]

db1> db.teachers.insertMany([{"Name":"Auguste","Product":"Strawberries -
California","Price":"$330.62","Date":"10/19/2024"},{"Name":"Lissy","Product":"Cheese -
Valancey","Price":"$794.57","Date":"10/20/2024"},{"Name":"Nelie","Product":"Soup - Campbells,
Spinach Crm","Price":"$559.33","Date":"10/19/2024"},{"Name":"Pauletta","Product":"Wine -
Bourgogne 2002, La","Price":"$286.62","Date":"10/20/2024"},{"Name":"Hammad","Product":"Soup
Campbells - Tomato
```

Bisque","Price":"$524.38","Date":"10/20/2024"},{"Name":"Cairistiona","Product":"Pate - Liver","Price":"$847.27","Date":"10/19/2024"},{"Name":"Chet","Product":"Fish - Artic Char, Cold Smoked","Price":"$126.26","Date":"10/19/2024"},{"Name":"Andrew","Product":"Pasta - Fett Alfredo, Single Serve","Price":"$345.54","Date":"10/20/2024"},{"Name":"Agatha","Product":"Veal - Leg, Provimi - 50 Lb Max","Price":"$463.30","Date":"10/19/2024"},{"Name":"Ivette","Product":"Pineapple - Canned, Rings","Price":"$710.72","Date":"10/20/2024"}]);

```
{
  acknowledged: true,

  insertedIds: {

    '0': ObjectId('67162a6f003d2f8f0c86b01d'),

    '1': ObjectId('67162a6f003d2f8f0c86b01e'),

    '2': ObjectId('67162a6f003d2f8f0c86b01f'),

    '3': ObjectId('67162a6f003d2f8f0c86b020'),

    '4': ObjectId('67162a6f003d2f8f0c86b021'),

    '5': ObjectId('67162a6f003d2f8f0c86b022'),

    '6': ObjectId('67162a6f003d2f8f0c86b023'),

    '7': ObjectId('67162a6f003d2f8f0c86b024'),

    '8': ObjectId('67162a6f003d2f8f0c86b025'),

    '9': ObjectId('67162a6f003d2f8f0c86b026')

  }
}
```

db1> db.users.insertMany([{"Name":"Auguste","Product":"Strawberries - California","Price":"$330.62","Date":"10/19/2024"},{"Name":"Lissy","Product":"Cheese - Valancey","Price":"$794.57","Date":"10/20/2024"},{"Name":"Nelie","Product":"Soup - Campbells, Spinach Crm","Price":"$559.33","Date":"10/19/2024"},{"Name":"Pauletta","Product":"Wine - Bourgogne 2002, La","Price":"$286.62","Date":"10/20/2024"},{"Name":"Hammad","Product":"Soup Campbells - Tomato Bisque","Price":"$524.38","Date":"10/20/2024"},{"Name":"Cairistiona","Product":"Pate - Liver","Price":"$847.27","Date":"10/19/2024"},{"Name":"Chet","Product":"Fish - Artic Char, Cold Smoked","Price":"$126.26","Date":"10/19/2024"},{"Name":"Andrew","Product":"Pasta - Fett Alfredo, Single Serve","Price":"$345.54","Date":"10/20/2024"},{"Name":"Agatha","Product":"Veal - Leg, Provimi - 50 Lb Max","Price":"$463.30","Date":"10/19/2024"},{"Name":"Ivette","Product":"Pineapple - Canned, Rings","Price":"$710.72","Date":"10/20/2024"}]);

```
{
  acknowledged: true,
```

```
  insertedIds: {
    '0': ObjectId('67162a98003d2f8f0c86b027'),
    '1': ObjectId('67162a98003d2f8f0c86b028'),
    '2': ObjectId('67162a98003d2f8f0c86b029'),
    '3': ObjectId('67162a98003d2f8f0c86b02a'),
    '4': ObjectId('67162a98003d2f8f0c86b02b'),
    '5': ObjectId('67162a98003d2f8f0c86b02c'),
    '6': ObjectId('67162a98003d2f8f0c86b02d'),
    '7': ObjectId('67162a98003d2f8f0c86b02e'),
    '8': ObjectId('67162a98003d2f8f0c86b02f'),
    '9': ObjectId('67162a98003d2f8f0c86b030')
  }
}
db1> show collections;
teachers
users
db1> db.users.find();
[
  {
    _id: ObjectId('67162a98003d2f8f0c86b027'),
    Name: 'Auguste',
    Product: 'Strawberries - California',
    Price: '$330.62',
    Date: '10/19/2024'
  },
  {
    _id: ObjectId('67162a98003d2f8f0c86b028'),
    Name: 'Lissy',
    Product: 'Cheese - Valancey',
    Price: '$794.57',
    Date: '10/20/2024'
```

```
  },
  {
    _id: ObjectId('67162a98003d2f8f0c86b029'),
    Name: 'Nelie',
    Product: 'Soup - Campbells, Spinach Crm',
    Price: '$559.33',
    Date: '10/19/2024'
  },
  {
    _id: ObjectId('67162a98003d2f8f0c86b02a'),
    Name: 'Pauletta',
    Product: 'Wine - Bourgogne 2002, La',
    Price: '$286.62',
    Date: '10/20/2024'
  },
  {
    _id: ObjectId('67162a98003d2f8f0c86b02b'),
    Name: 'Hammad',
    Product: 'Soup Campbells - Tomato Bisque',
    Price: '$524.38',
    Date: '10/20/2024'
  },
  {
    _id: ObjectId('67162a98003d2f8f0c86b02c'),
    Name: 'Cairistiona',
    Product: 'Pate - Liver',
    Price: '$847.27',
    Date: '10/19/2024'
  },
  {
    _id: ObjectId('67162a98003d2f8f0c86b02d'),
```

```
    Name: 'Chet',

    Product: 'Fish - Artic Char, Cold Smoked',

    Price: '$126.26',

    Date: '10/19/2024'

  },

  {

    _id: ObjectId('67162a98003d2f8f0c86b02e'),

    Name: 'Andrew',

    Product: 'Pasta - Fett Alfredo, Single Serve',

    Price: '$345.54',

    Date: '10/20/2024'

  },

  {

    _id: ObjectId('67162a98003d2f8f0c86b02f'),

    Name: 'Agatha',

    Product: 'Veal - Leg, Provimi - 50 Lb Max',

    Price: '$463.30',

    Date: '10/19/2024'

  },

  {

    _id: ObjectId('67162a98003d2f8f0c86b030'),

    Name: 'Ivette',

    Product: 'Pineapple - Canned, Rings',

    Price: '$710.72',

    Date: '10/20/2024'

  }
]
db1> db.users.find({Date: '10/21/2024'});


db1> db.users.find({Date: '10/20/2024'});

[
```

```
{
  _id: ObjectId('67162a98003d2f8f0c86b028'),
  Name: 'Lissy',
  Product: 'Cheese - Valancey',
  Price: '$794.57',
  Date: '10/20/2024'
},
{
  _id: ObjectId('67162a98003d2f8f0c86b02a'),
  Name: 'Pauletta',
  Product: 'Wine - Bourgogne 2002, La',
  Price: '$286.62',
  Date: '10/20/2024'
},
{
  _id: ObjectId('67162a98003d2f8f0c86b02b'),
  Name: 'Hammad',
  Product: 'Soup Campbells - Tomato Bisque',
  Price: '$524.38',
  Date: '10/20/2024'
},
{
  _id: ObjectId('67162a98003d2f8f0c86b02e'),
  Name: 'Andrew',
  Product: 'Pasta - Fett Alfredo, Single Serve',
  Price: '$345.54',
  Date: '10/20/2024'
},
{
  _id: ObjectId('67162a98003d2f8f0c86b030'),
  Name: 'Ivette',
```

```
    Product: 'Pineapple - Canned, Rings',

    Price: '$710.72',

    Date: '10/20/2024'

  }

]

db1> db.users.find({Date: '10/20/2024'},{_id:0});

[

  {

    Name: 'Lissy',

    Product: 'Cheese - Valancey',

    Price: '$794.57',

    Date: '10/20/2024'

  },

  {

    Name: 'Pauletta',

    Product: 'Wine - Bourgogne 2002, La',

    Price: '$286.62',

    Date: '10/20/2024'

  },

  {

    Name: 'Hammad',

    Product: 'Soup Campbells - Tomato Bisque',

    Price: '$524.38',

    Date: '10/20/2024'

  },

  {

    Name: 'Andrew',

    Product: 'Pasta - Fett Alfredo, Single Serve',

    Price: '$345.54',

    Date: '10/20/2024'

  },
```

```
  {
    Name: 'Ivette',

    Product: 'Pineapple - Canned, Rings',

    Price: '$710.72',

    Date: '10/20/2024'

  }

]

db1> db.users.find({Date: '10/20/2024'},{_id:0});

[
  {
    Name: 'Lissy',

    Product: 'Cheese - Valancey',

    Price: '$794.57',

    Date: '10/20/2024'

  },
  {
    Name: 'Pauletta',

    Product: 'Wine - Bourgogne 2002, La',

    Price: '$286.62',

    Date: '10/20/2024'

  },
  {
    Name: 'Hammad',

    Product: 'Soup Campbells - Tomato Bisque',

    Price: '$524.38',

    Date: '10/20/2024'

  },
  {
    Name: 'Andrew',

    Product: 'Pasta - Fett Alfredo, Single Serve',

    Price: '$345.54',
```

```
    Date: '10/20/2024'
  },
  {
    Name: 'Ivette',
    Product: 'Pineapple - Canned, Rings',
    Price: '$710.72',
    Date: '10/20/2024'
  }
]
db1> db.users.find({Date: '10/20/2024'},{_id:0,product:0});
[
  {
    Name: 'Lissy',
    Product: 'Cheese - Valancey',
    Price: '$794.57',
    Date: '10/20/2024'
  },
  {
    Name: 'Pauletta',
    Product: 'Wine - Bourgogne 2002, La',
    Price: '$286.62',
    Date: '10/20/2024'
  },
  {
    Name: 'Hammad',
    Product: 'Soup Campbells - Tomato Bisque',
    Price: '$524.38',
    Date: '10/20/2024'
  },
  {
    Name: 'Andrew',
```

Product: 'Pasta - Fett Alfredo, Single Serve',

      Price: '$345.54',

      Date: '10/20/2024'

    },

    {

      Name: 'Ivette',

      Product: 'Pineapple - Canned, Rings',

      Price: '$710.72',

      Date: '10/20/2024'

    }

]

db1> db.users.find({Date: '10/20/2024'},{_id:0,Product:0});

[

  { Name: 'Lissy', Price: '$794.57', Date: '10/20/2024' },

  { Name: 'Pauletta', Price: '$286.62', Date: '10/20/2024' },

  { Name: 'Hammad', Price: '$524.38', Date: '10/20/2024' },

  { Name: 'Andrew', Price: '$345.54', Date: '10/20/2024' },

  { Name: 'Ivette', Price: '$710.72', Date: '10/20/2024' }

]

db1> db.users.find({},{_id:0,Product:0});

[

  { Name: 'Auguste', Price: '$330.62', Date: '10/19/2024' },

  { Name: 'Lissy', Price: '$794.57', Date: '10/20/2024' },

  { Name: 'Nelie', Price: '$559.33', Date: '10/19/2024' },

  { Name: 'Pauletta', Price: '$286.62', Date: '10/20/2024' },

  { Name: 'Hammad', Price: '$524.38', Date: '10/20/2024' },

  { Name: 'Cairistiona', Price: '$847.27', Date: '10/19/2024' },

  { Name: 'Chet', Price: '$126.26', Date: '10/19/2024' },

  { Name: 'Andrew', Price: '$345.54', Date: '10/20/2024' },

  { Name: 'Agatha', Price: '$463.30', Date: '10/19/2024' },

  { Name: 'Ivette', Price: '$710.72', Date: '10/20/2024' }

```
]
db1> db.users.find({},{_id:0,Product:0}).count();

10

db1> db.users.find({},{_id:0,Product:0}).countDocuments();

TypeError: db.users.find( ... ct:0}).countDocuments is not a function

db1> db.users.countDocuments();

10

db1> db.users.count();

DeprecationWarning: Collection.count() is deprecated. Use countDocuments or
estimatedDocumentCount.

10

db1> db.users.distinct();

MongoServerError[IDLFailedToParse]: BSON field 'distinctCommandRequest.key' is missing but a
required field

db1> db.users.distinct({name:1});

MongoServerError[TypeMismatch]: BSON field 'distinctCommandRequest.key' is the wrong type
'object', expected type 'string'

db1> db.users.distinct(name);

ReferenceError: name is not defined

db1> db.users.distinct(Name);

ReferenceError: Name is not defined

db1> db.users.distinct('Name');

[
  'Agatha',  'Andrew',
  'Auguste', 'Cairistiona',
  'Chet',    'Hammad',
  'Ivette',  'Lissy',
  'Nelie',   'Pauletta'
]

db1> db.users.distinct('Name').count();

TypeError: db.users.distinct('Name').count is not a function

db1> db.users.distinct('Name');
```

```
[
  'Agatha',  'Andrew',
  'Auguste', 'Cairistiona',
  'Chet',    'Hammad',
  'Ivette',  'Lissy',
  'Nelie',   'Pauletta'
]
db1> db.users.distinct('Product');
[
  'Cheese - Valancey',
  'Fish - Artic Char, Cold Smoked',
  'Pasta - Fett Alfredo, Single Serve',
  'Pate - Liver',
  'Pineapple - Canned, Rings',
  'Soup - Campbells, Spinach Crm',
  'Soup Campbells - Tomato Bisque',
  'Strawberries - California',
  'Veal - Leg, Provimi - 50 Lb Max',
  'Wine - Bourgogne 2002, La'
]
db1> db.users.find();
[
  {
    _id: ObjectId('67162a98003d2f8f0c86b027'),
    Name: 'Auguste',
    Product: 'Strawberries - California',
    Price: '$330.62',
    Date: '10/19/2024'
  },
  {
    _id: ObjectId('67162a98003d2f8f0c86b028'),
```

```
  Name: 'Lissy',

  Product: 'Cheese - Valancey',

  Price: '$794.57',

  Date: '10/20/2024'

},

{

  _id: ObjectId('67162a98003d2f8f0c86b029'),

  Name: 'Nelie',

  Product: 'Soup - Campbells, Spinach Crm',

  Price: '$559.33',

  Date: '10/19/2024'

},

{

  _id: ObjectId('67162a98003d2f8f0c86b02a'),

  Name: 'Pauletta',

  Product: 'Wine - Bourgogne 2002, La',

  Price: '$286.62',

  Date: '10/20/2024'

},

{

  _id: ObjectId('67162a98003d2f8f0c86b02b'),

  Name: 'Hammad',

  Product: 'Soup Campbells - Tomato Bisque',

  Price: '$524.38',

  Date: '10/20/2024'

},

{

  _id: ObjectId('67162a98003d2f8f0c86b02c'),

  Name: 'Cairistiona',

  Product: 'Pate - Liver',

  Price: '$847.27',
```

```
    Date: '10/19/2024'
  },
  {
    _id: ObjectId('67162a98003d2f8f0c86b02d'),
    Name: 'Chet',
    Product: 'Fish - Artic Char, Cold Smoked',
    Price: '$126.26',
    Date: '10/19/2024'
  },
  {
    _id: ObjectId('67162a98003d2f8f0c86b02e'),
    Name: 'Andrew',
    Product: 'Pasta - Fett Alfredo, Single Serve',
    Price: '$345.54',
    Date: '10/20/2024'
  },
  {
    _id: ObjectId('67162a98003d2f8f0c86b02f'),
    Name: 'Agatha',
    Product: 'Veal - Leg, Provimi - 50 Lb Max',
    Price: '$463.30',
    Date: '10/19/2024'
  },
  {
    _id: ObjectId('67162a98003d2f8f0c86b030'),
    Name: 'Ivette',
    Product: 'Pineapple - Canned, Rings',
    Price: '$710.72',
    Date: '10/20/2024'
  }
]
```

```
db1> db.users.aggregate();
[
  {
    _id: ObjectId('67162a98003d2f8f0c86b027'),
    Name: 'Auguste',
    Product: 'Strawberries - California',
    Price: '$330.62',
    Date: '10/19/2024'
  },
  {
    _id: ObjectId('67162a98003d2f8f0c86b028'),
    Name: 'Lissy',
    Product: 'Cheese - Valancey',
    Price: '$794.57',
    Date: '10/20/2024'
  },
  {
    _id: ObjectId('67162a98003d2f8f0c86b029'),
    Name: 'Nelie',
    Product: 'Soup - Campbells, Spinach Crm',
    Price: '$559.33',
    Date: '10/19/2024'
  },
  {
    _id: ObjectId('67162a98003d2f8f0c86b02a'),
    Name: 'Pauletta',
    Product: 'Wine - Bourgogne 2002, La',
    Price: '$286.62',
    Date: '10/20/2024'
  },
  {
```

```
  _id: ObjectId('67162a98003d2f8f0c86b02b'),
  Name: 'Hammad',
  Product: 'Soup Campbells - Tomato Bisque',
  Price: '$524.38',
  Date: '10/20/2024'
},
{
  _id: ObjectId('67162a98003d2f8f0c86b02c'),
  Name: 'Cairistiona',
  Product: 'Pate - Liver',
  Price: '$847.27',
  Date: '10/19/2024'
},
{
  _id: ObjectId('67162a98003d2f8f0c86b02d'),
  Name: 'Chet',
  Product: 'Fish - Artic Char, Cold Smoked',
  Price: '$126.26',
  Date: '10/19/2024'
},
{
  _id: ObjectId('67162a98003d2f8f0c86b02e'),
  Name: 'Andrew',
  Product: 'Pasta - Fett Alfredo, Single Serve',
  Price: '$345.54',
  Date: '10/20/2024'
},
{
  _id: ObjectId('67162a98003d2f8f0c86b02f'),
  Name: 'Agatha',
  Product: 'Veal - Leg, Provimi - 50 Lb Max',
```

```
    Price: '$463.30',

    Date: '10/19/2024'

  },

  {

    _id: ObjectId('67162a98003d2f8f0c86b030'),

    Name: 'Ivette',

    Product: 'Pineapple - Canned, Rings',

    Price: '$710.72',

    Date: '10/20/2024'

  }

]
db1> db.users.aggregate([ { $group: { _id: "$name", total: { $sum: '$Price' } } }]);

[ { _id: null, total: 0 } ]

db1> db.users.aggregate([ { $group: { _id: "$Name", total: { $sum: '$Price' } } }]);

[

  { _id: 'Auguste', total: 0 },

  { _id: 'Lissy', total: 0 },

  { _id: 'Hammad', total: 0 },

  { _id: 'Chet', total: 0 },

  { _id: 'Pauletta', total: 0 },

  { _id: 'Cairistiona', total: 0 },

  { _id: 'Nelie', total: 0 },

  { _id: 'Andrew', total: 0 },

  { _id: 'Agatha', total: 0 },

  { _id: 'Ivette', total: 0 }

]

db1> show collections

teachers

users

db1> db.drop('users');

TypeError: db.drop is not a function
```

```
db1> db.users.drop();

true

db1> show collections;

teachers

db1> db.users.insertMany([{"Name":"Auguste","Product":"Strawberries -
California","Price":330.62,"Date":"10/19/2024"},{"Name":"Lissy","Product":"Cheese -
Valancey","Price":794.57,"Date":"10/20/2024"},{"Name":"Nelie","Product":"Soup - Campbells,
Spinach Crm","Price":559.33,"Date":"10/19/2024"},{"Name":"Pauletta","Product":"Wine -
Bourgogne 2002, La","Price":286.62,"Date":"10/20/2024"},{"Name":"Hammad","Product":"Soup
Campbells - Tomato
Bisque","Price":524.38,"Date":"10/20/2024"},{"Name":"Cairistiona","Product":"Pate -
Liver","Price":847.27,"Date":"10/19/2024"},{"Name":"Chet","Product":"Fish - Artic Char, Cold
Smoked","Price":126.26,"Date":"10/19/2024"},{"Name":"Andrew","Product":"Pasta - Fett Alfredo,
Single Serve","Price":345.54,"Date":"10/20/2024"},{"Name":"Agatha","Product":"Veal - Leg, Provimi
- 50 Lb Max","Price":463.3,"Date":"10/19/2024"},{"Name":"Ivette","Product":"Pineapple - Canned,
Rings","Price":710.72,"Date":"10/20/2024"}]);

{

  acknowledged: true,

  insertedIds: {

   '0': ObjectId('67162fe3003d2f8f0c86b031'),

   '1': ObjectId('67162fe3003d2f8f0c86b032'),

   '2': ObjectId('67162fe3003d2f8f0c86b033'),

   '3': ObjectId('67162fe3003d2f8f0c86b034'),

   '4': ObjectId('67162fe3003d2f8f0c86b035'),

   '5': ObjectId('67162fe3003d2f8f0c86b036'),

   '6': ObjectId('67162fe3003d2f8f0c86b037'),

   '7': ObjectId('67162fe3003d2f8f0c86b038'),

   '8': ObjectId('67162fe3003d2f8f0c86b039'),

   '9': ObjectId('67162fe3003d2f8f0c86b03a')

  }

}

db1> db.users.find();

[

 {

  _id: ObjectId('67162fe3003d2f8f0c86b031'),
```

```
  Name: 'Auguste',

  Product: 'Strawberries - California',

  Price: 330.62,

  Date: '10/19/2024'

},

{

  _id: ObjectId('67162fe3003d2f8f0c86b032'),

  Name: 'Lissy',

  Product: 'Cheese - Valancey',

  Price: 794.57,

  Date: '10/20/2024'

},

{

  _id: ObjectId('67162fe3003d2f8f0c86b033'),

  Name: 'Nelie',

  Product: 'Soup - Campbells, Spinach Crm',

  Price: 559.33,

  Date: '10/19/2024'

},

{

  _id: ObjectId('67162fe3003d2f8f0c86b034'),

  Name: 'Pauletta',

  Product: 'Wine - Bourgogne 2002, La',

  Price: 286.62,

  Date: '10/20/2024'

},

{

  _id: ObjectId('67162fe3003d2f8f0c86b035'),

  Name: 'Hammad',

  Product: 'Soup Campbells - Tomato Bisque',

  Price: 524.38,
```

    Date: '10/20/2024'
  },
  {
    _id: ObjectId('67162fe3003d2f8f0c86b036'),
    Name: 'Cairistiona',
    Product: 'Pate - Liver',
    Price: 847.27,
    Date: '10/19/2024'
  },
  {
    _id: ObjectId('67162fe3003d2f8f0c86b037'),
    Name: 'Chet',
    Product: 'Fish - Artic Char, Cold Smoked',
    Price: 126.26,
    Date: '10/19/2024'
  },
  {
    _id: ObjectId('67162fe3003d2f8f0c86b038'),
    Name: 'Andrew',
    Product: 'Pasta - Fett Alfredo, Single Serve',
    Price: 345.54,
    Date: '10/20/2024'
  },
  {
    _id: ObjectId('67162fe3003d2f8f0c86b039'),
    Name: 'Agatha',
    Product: 'Veal - Leg, Provimi - 50 Lb Max',
    Price: 463.3,
    Date: '10/19/2024'
  },
  {

```
      _id: ObjectId('67162fe3003d2f8f0c86b03a'),

      Name: 'Ivette',

      Product: 'Pineapple - Canned, Rings',

      Price: 710.72,

      Date: '10/20/2024'

    }

]

db1> db.users.aggregate();

[

  {

      _id: ObjectId('67162fe3003d2f8f0c86b031'),

      Name: 'Auguste',

      Product: 'Strawberries - California',

      Price: 330.62,

      Date: '10/19/2024'

  },

  {

      _id: ObjectId('67162fe3003d2f8f0c86b032'),

      Name: 'Lissy',

      Product: 'Cheese - Valancey',

      Price: 794.57,

      Date: '10/20/2024'

  },

  {

      _id: ObjectId('67162fe3003d2f8f0c86b033'),

      Name: 'Nelie',

      Product: 'Soup - Campbells, Spinach Crm',

      Price: 559.33,

      Date: '10/19/2024'

  },

  {
```

```
  _id: ObjectId('67162fe3003d2f8f0c86b034'),

  Name: 'Pauletta',

  Product: 'Wine - Bourgogne 2002, La',

  Price: 286.62,

  Date: '10/20/2024'

},

{

  _id: ObjectId('67162fe3003d2f8f0c86b035'),

  Name: 'Hammad',

  Product: 'Soup Campbells - Tomato Bisque',

  Price: 524.38,

  Date: '10/20/2024'

},

{

  _id: ObjectId('67162fe3003d2f8f0c86b036'),

  Name: 'Cairistiona',

  Product: 'Pate - Liver',

  Price: 847.27,

  Date: '10/19/2024'

},

{

  _id: ObjectId('67162fe3003d2f8f0c86b037'),

  Name: 'Chet',

  Product: 'Fish - Artic Char, Cold Smoked',

  Price: 126.26,

  Date: '10/19/2024'

},

{

  _id: ObjectId('67162fe3003d2f8f0c86b038'),

  Name: 'Andrew',

  Product: 'Pasta - Fett Alfredo, Single Serve',
```

```
    Price: 345.54,

    Date: '10/20/2024'

  },

  {

    _id: ObjectId('67162fe3003d2f8f0c86b039'),

    Name: 'Agatha',

    Product: 'Veal - Leg, Provimi - 50 Lb Max',

    Price: 463.3,

    Date: '10/19/2024'

  },

  {

    _id: ObjectId('67162fe3003d2f8f0c86b03a'),

    Name: 'Ivette',

    Product: 'Pineapple - Canned, Rings',

    Price: 710.72,

    Date: '10/20/2024'

  }

]
db1> db.users.aggregate({ $group: { _id: 'Name', total: {$sum: { '$Price' } } } });

Uncaught:

SyntaxError: Unexpected token (1:69)


> 1 | db.users.aggregate({ $group: { _id: 'Name', total: {$sum: { '$Price' } } } });

    |                                                      ^

  2 |


db1> db.users.aggregate({ $group: { _id: 'Name', total: {$sum: { '$Price' } } } });

Uncaught:

SyntaxError: Unexpected token (1:69)


> 1 | db.users.aggregate({ $group: { _id: 'Name', total: {$sum: { '$Price' } } } });
```

```
         |                              ^
  2 |

db1> db.users.aggregate([{ $group: { _id: 'Name', total: {$sum: { '$Price' } } } }]);
Uncaught:
SyntaxError: Unexpected token (1:70)

> 1 | db.users.aggregate([{ $group: { _id: 'Name', total: {$sum: { '$Price' } } } }]);
    |                                                                      ^
  2 |

db1> db.users.aggregate([{ $group: { _id: '$Name', total: {$sum: { '$Price' } } } }]);
Uncaught:
SyntaxError: Unexpected token (1:71)

> 1 | db.users.aggregate([{ $group: { _id: '$Name', total: {$sum: { '$Price' } } } }]);
    |                                                                       ^
  2 |

db1> db.users.aggregate([{ $group: { _id: '$Name', total: {$sum: '$Price' } } }]);
[
  { _id: 'Cairistiona', total: 847.27 },
  { _id: 'Nelie', total: 559.33 },
  { _id: 'Agatha', total: 463.3 },
  { _id: 'Pauletta', total: 286.62 },
  { _id: 'Hammad', total: 524.38 },
  { _id: 'Chet', total: 126.26 },
  { _id: 'Andrew', total: 345.54 },
  { _id: 'Ivette', total: 710.72 },
  { _id: 'Auguste', total: 330.62 },
  { _id: 'Lissy', total: 794.57 }
```

```
]
db1> db.users.find();
[
  {
    _id: ObjectId('67162fe3003d2f8f0c86b031'),
    Name: 'Auguste',
    Product: 'Strawberries - California',
    Price: 330.62,
    Date: '10/19/2024'
  },
  {
    _id: ObjectId('67162fe3003d2f8f0c86b032'),
    Name: 'Lissy',
    Product: 'Cheese - Valancey',
    Price: 794.57,
    Date: '10/20/2024'
  },
  {
    _id: ObjectId('67162fe3003d2f8f0c86b033'),
    Name: 'Nelie',
    Product: 'Soup - Campbells, Spinach Crm',
    Price: 559.33,
    Date: '10/19/2024'
  },
  {
    _id: ObjectId('67162fe3003d2f8f0c86b034'),
    Name: 'Pauletta',
    Product: 'Wine - Bourgogne 2002, La',
    Price: 286.62,
    Date: '10/20/2024'
  },
```

```
{
  _id: ObjectId('67162fe3003d2f8f0c86b035'),
  Name: 'Hammad',
  Product: 'Soup Campbells - Tomato Bisque',
  Price: 524.38,
  Date: '10/20/2024'
},
{
  _id: ObjectId('67162fe3003d2f8f0c86b036'),
  Name: 'Cairistiona',
  Product: 'Pate - Liver',
  Price: 847.27,
  Date: '10/19/2024'
},
{
  _id: ObjectId('67162fe3003d2f8f0c86b037'),
  Name: 'Chet',
  Product: 'Fish - Artic Char, Cold Smoked',
  Price: 126.26,
  Date: '10/19/2024'
},
{
  _id: ObjectId('67162fe3003d2f8f0c86b038'),
  Name: 'Andrew',
  Product: 'Pasta - Fett Alfredo, Single Serve',
  Price: 345.54,
  Date: '10/20/2024'
},
{
  _id: ObjectId('67162fe3003d2f8f0c86b039'),
  Name: 'Agatha',
```

```
    Product: 'Veal - Leg, Provimi - 50 Lb Max',

    Price: 463.3,

    Date: '10/19/2024'

  },

  {

    _id: ObjectId('67162fe3003d2f8f0c86b03a'),

    Name: 'Ivette',

    Product: 'Pineapple - Canned, Rings',

    Price: 710.72,

    Date: '10/20/2024'

  }

]
db1> db.users.insertOne({ 'Name': 'Ivette', Product: 'milk' , Price: 23, Date: '10/21/2024'});

{

  acknowledged: true,

  insertedId: ObjectId('67163196003d2f8f0c86b03b')

}
db1> db.users.aggregate([{ $group: { _id: '$Name', total: {$sum: '$Price' } } }]);

[

  { _id: 'Nelie', total: 559.33 },

  { _id: 'Pauletta', total: 286.62 },

  { _id: 'Cairistiona', total: 847.27 },

  { _id: 'Chet', total: 126.26 },

  { _id: 'Hammad', total: 524.38 },

  { _id: 'Andrew', total: 345.54 },

  { _id: 'Agatha', total: 463.3 },

  { _id: 'Lissy', total: 794.57 },

  { _id: 'Auguste', total: 330.62 },

  { _id: 'Ivette', total: 733.72 }

]
db1> db.users.aggregate([{ $group: { _id: '$Product', totalIncomePerItem: {$sum: '$Price' } } }]);
```

```
[
  { _id: 'Soup Campbells - Tomato Bisque', totalIncomePerItem: 524.38 },

  { _id: 'Cheese - Valancey', totalIncomePerItem: 794.57 },

  { _id: 'Wine - Bourgogne 2002, La', totalIncomePerItem: 286.62 },

  { _id: 'Fish - Artic Char, Cold Smoked', totalIncomePerItem: 126.26 },

  { _id: 'Pineapple - Canned, Rings', totalIncomePerItem: 710.72 },

  { _id: 'Strawberries - California', totalIncomePerItem: 330.62 },

  {

    _id: 'Pasta - Fett Alfredo, Single Serve',

    totalIncomePerItem: 345.54

  },

  { _id: 'Soup - Campbells, Spinach Crm', totalIncomePerItem: 559.33 },

  { _id: 'milk', totalIncomePerItem: 23 },

  { _id: 'Pate - Liver', totalIncomePerItem: 847.27 },

  { _id: 'Veal - Leg, Provimi - 50 Lb Max', totalIncomePerItem: 463.3 }

]

db1> db.users.aggregate([{ $group: { _id: '$Product', totalIncomePerItem: {$sum: '$Price' } } }, { $sort:
{ $Product: 1 } }]);

MongoServerError[Location16410]: FieldPath field names may not start with '$'. Consider using
$getField or $setField.

db1> db.users.aggregate([{ $group: { _id: '$Product', totalIncomePerItem: {$sum: '$Price' } } }, { $sort:
{ Product: 1 } }]);

[

  { _id: 'Soup Campbells - Tomato Bisque', totalIncomePerItem: 524.38 },

  { _id: 'Fish - Artic Char, Cold Smoked', totalIncomePerItem: 126.26 },

  { _id: 'Pate - Liver', totalIncomePerItem: 847.27 },

  { _id: 'Veal - Leg, Provimi - 50 Lb Max', totalIncomePerItem: 463.3 },

  { _id: 'Soup - Campbells, Spinach Crm', totalIncomePerItem: 559.33 },

  {

    _id: 'Pasta - Fett Alfredo, Single Serve',

    totalIncomePerItem: 345.54

  },
```

{ _id: 'Strawberries - California', totalIncomePerItem: 330.62 },

  { _id: 'milk', totalIncomePerItem: 23 },

  { _id: 'Pineapple - Canned, Rings', totalIncomePerItem: 710.72 },

  { _id: 'Cheese - Valancey', totalIncomePerItem: 794.57 },

  { _id: 'Wine - Bourgogne 2002, La', totalIncomePerItem: 286.62 }

]
db1> db.users.aggregate([{ $group: { _id: '$Product', totalIncomePerItem: {$sum: '$Price' } } }, { $sort:
{ Product: -1 } }]);

[

  { _id: 'Soup Campbells - Tomato Bisque', totalIncomePerItem: 524.38 },

  { _id: 'Cheese - Valancey', totalIncomePerItem: 794.57 },

  { _id: 'Wine - Bourgogne 2002, La', totalIncomePerItem: 286.62 },

  { _id: 'Fish - Artic Char, Cold Smoked', totalIncomePerItem: 126.26 },

  { _id: 'Pineapple - Canned, Rings', totalIncomePerItem: 710.72 },

  { _id: 'Strawberries - California', totalIncomePerItem: 330.62 },

  {

    _id: 'Pasta - Fett Alfredo, Single Serve',

     totalIncomePerItem: 345.54

  },

  { _id: 'Soup - Campbells, Spinach Crm', totalIncomePerItem: 559.33 },

  { _id: 'milk', totalIncomePerItem: 23 },

  { _id: 'Pate - Liver', totalIncomePerItem: 847.27 },

  { _id: 'Veal - Leg, Provimi - 50 Lb Max', totalIncomePerItem: 463.3 }

]
db1> db.users.aggregate([{ $group: { _id: '$Product', totalIncomePerItem: {$sum: '$Price' } } }, { $sort:
{ totalIncomePerItem: -1 } }]);

[

  { _id: 'Pate - Liver', totalIncomePerItem: 847.27 },

  { _id: 'Cheese - Valancey', totalIncomePerItem: 794.57 },

  { _id: 'Pineapple - Canned, Rings', totalIncomePerItem: 710.72 },

  { _id: 'Soup - Campbells, Spinach Crm', totalIncomePerItem: 559.33 },

  { _id: 'Soup Campbells - Tomato Bisque', totalIncomePerItem: 524.38 },

```
  { _id: 'Veal - Leg, Provimi - 50 Lb Max', totalIncomePerItem: 463.3 },
  {
    _id: 'Pasta - Fett Alfredo, Single Serve',
    totalIncomePerItem: 345.54
  },
  { _id: 'Strawberries - California', totalIncomePerItem: 330.62 },
  { _id: 'Wine - Bourgogne 2002, La', totalIncomePerItem: 286.62 },
  { _id: 'Fish - Artic Char, Cold Smoked', totalIncomePerItem: 126.26 },
  { _id: 'milk', totalIncomePerItem: 23 }
]
db1> db.users.aggregate([{ $group: { _id: '$Product', totalIncomePerItem: {$sum: '$Price' } } }, { $sort:
{ totalIncomePerItem: 1 } }]);

[
  { _id: 'milk', totalIncomePerItem: 23 },
  { _id: 'Fish - Artic Char, Cold Smoked', totalIncomePerItem: 126.26 },
  { _id: 'Wine - Bourgogne 2002, La', totalIncomePerItem: 286.62 },
  { _id: 'Strawberries - California', totalIncomePerItem: 330.62 },
  {
    _id: 'Pasta - Fett Alfredo, Single Serve',
    totalIncomePerItem: 345.54
  },
  { _id: 'Veal - Leg, Provimi - 50 Lb Max', totalIncomePerItem: 463.3 },
  { _id: 'Soup Campbells - Tomato Bisque', totalIncomePerItem: 524.38 },
  { _id: 'Soup - Campbells, Spinach Crm', totalIncomePerItem: 559.33 },
  { _id: 'Pineapple - Canned, Rings', totalIncomePerItem: 710.72 },
  { _id: 'Cheese - Valancey', totalIncomePerItem: 794.57 },
  { _id: 'Pate - Liver', totalIncomePerItem: 847.27 }
]
db1> db.users.aggregate([ { $match: { $in: ['Pate - Liver', 'Pineapple - Canned, Rings'] } } ,{ $group: {
_id: '$Product', totalIncomePerItem: {$sum: '$Price' } } }]);

MongoServerError[BadValue]: unknown top level operator: $in. If you have a field name that starts
with a '$' symbol, consider using $getField or $setField.
```

```
db1> db.users.aggregate([ { $match: { Product: { $in: ['Pate - Liver', 'Pineapple - Canned, Rings'] } } },{
$group: { _id: '$Product', totalIncomePerItem: {$sum: '$Price' }


db1>


db1>


db1>


db1>


db1>


db1> db.users.aggregate([{ $match: { Product: { $in: ['Pate - Liver', 'Pineapple - Canned, Rings'] } } }, {
$group: { _id: '$Product', totalIncomePerEach: { $sum: '$Price' } } }]);
[
  { _id: 'Pineapple - Canned, Rings', totalIncomePerEach: 710.72 },
  { _id: 'Pate - Liver', totalIncomePerEach: 847.27 }
]
db1>
```