Группировка значений по полю класса и сортировка получившихся значений по убыванию.

```
> db.Student.aggregate(
      {
      "$group" : {"_id" : "$class", "total" : { "$sum" : 1 }}
      },
      {
      $sort : {total : -1}
      }
   );
< [ { _id: '9A', total: 2 },
    { _id: '4 kurs', total: 1 },
    { _id: '1C', total: 1 },
    { _id: '7B', total: 1 } ]
>
```

```
db.Student.aggregate(
  {
  "$group" : {"_id" : "$class", "total" : { "$sum" : 1 }}
  },
  {
  $sort : {total : -1}
  }
 );
```

```
> db.Student.aggregate(
    {
    "$group" : {"_id" : "$class", "total" : { "$sum" : 1 }}
    },
    {
    $sort : {total : -1}
    },
    {
    $match:{total:2}
    }
);
[ { _id: '9A', total: 2 } ]
>
```

db.Student.aggregate(

  {

  "$group" : {"_id" : "$class", "total" : { "$sum" : 1 }}

  },

  {

  $sort : {total : -1}

  },

  {

  $match:{total:2}

  }

);

Пример группировки через lookup.

```
> db.Student.aggregate([
    {
      $lookup:
        {
          from: "Teacher",
          localField: "name",
          foreignField: "name",
          as: "testAggr1"
        }
    }
  ])
```

```
db.Student.aggregate([
  {
   $lookup:
    {
      from: "Teacher",
      localField: "name",
      foreignField: "name",
      as: "testAggr1"
    }
```

```
 }
])
```

Результат:

```
[ { _id:
    { _bsontype: 'ObjectID',
      id: <Buffer 5f 74 55 7f 50 a3 e5 24 1c 30 43 b2> },
   name: 'Artem',
   class: '9A',
   testAggr1: [] },
 { _id:
    { _bsontype: 'ObjectID',
      id: <Buffer 5f 74 55 8b 50 a3 e5 24 1c 30 43 b3> },
   name: 'Ortem',
   class: '7B',
   testAggr1: [] },
 { _id:
    { _bsontype: 'ObjectID',
      id: <Buffer 5f 74 55 d4 50 a3 e5 24 1c 30 43 b4> },
   name: 'Kolya',
   class: '1C',
   testAggr1:
    [ { _id:
         { _bsontype: 'ObjectID',
           id: <Buffer 5f 8e d4 4f 7c c9 b2 1c 70 ab 8b 0d> },
        name: 'Kolya',
        cabNum: 105,
        exp: '0 year',
        isZavUch: false } ] },
 { _id:
    { _bsontype: 'ObjectID',
      id: <Buffer 5f 74 55 ed 50 a3 e5 24 1c 30 43 b5> },
   name: 'Mikheev',
```

```
    class: '4 kurs',
    testAggr1: [] },
  { _id:
    { _bsontype: 'ObjectID',
      id: <Buffer 5f 74 56 06 50 a3 e5 24 1c 30 43 b6> },
    name: 'Maheev',
    class: '9A',
    testAggr1: [] } ]
```

агрегированный запрос через mapReduce

> var map = function(){emit(this.name,this.class);}

> var reduce = function(nm,cls){return Array.sum(cls);}

> var map = function(){emit(this.name,this.class);}

> db.Student.mapReduce(map,reduce,{out: "test_mr"})

{ "result" : "test_mr", "ok" : 1 }

Результат

```
> db.test_mr.find()
{ "_id" : "Maheev", "value" : "9A" }
{ "_id" : "Ortem", "value" : "7B" }
{ "_id" : "Kolya", "value" : "1C" }
{ "_id" : "Mikheev", "value" : "4 kurs" }
{ "_id" : "Artem", "value" : "9A" }
>
```