```
> db.products.deleteOne({})
< {
    acknowledged: true,
    deletedCount: 1
  }
> db.products.find()
< {
    _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.deleteOne({
    'spec.ram': {$gt: 8}
  })
< {
     acknowledged: true,
     deletedCount: 1
   }
```

```
> db.products.deleteMany({price:{$gte:699}})
< {
    acknowledged: true,
    deletedCount: 1
  }
> db.products.find()
< {
    _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.deleteMany({ "spec.screen": 9.7 })
< {
    acknowledged: true,
    deletedCount: 1
  }
> db.products.find()
<
```

```
> db.sales.aggregate([{$match:{item:"Americanos"}},
  {$group:{_id:"$size", totalQty:{$sum:"$quantity"}}},
                   {$sort:{totalQty:-1}}])
< {
    _id: 'Grande',
    totalQty: 33
  }
  {
    _id: 'Short',
    totalQty: 22
  }
  {
    _id: 'Tall',
    totalQty: 15
  }
```

```
> db.sales.aggregate([
    { $group:{_id:'$item', averageQty:{$avg:'$quantity'}}}
  }
  ])
< {
    _id: 'Americanos',
    averageQty: 17.5
  }
  {
    _id: 'Lattes',
    averageQty: 27.5
  }
  {
    _id: 'Cappuccino',
    averageQty: 16.333333333333332
  }
  {
    _id: 'Mochas',
    averageQty: 11
  }
```

```
> db.sales.aggregate([{$match:{price:{$gt:8}}},
    {$group:{_id:'item',avgPrice:{$avg:'$price'}}},
                    ])
< {
    _id: 'item',
    avgPrice: 15.833333333333334
  }
```

```
> db.sales.aggregate([{$group:{_id:'$item',avgpara:{$avg:{$multiply:['$price','$quantity']}}}}])
< {
    _id: 'Americanos',
    avgpara: 140
  }
  {
    _id: 'Lattes',
    avgpara: 562.5
  }
  {
    _id: 'Cappuccino',
    avgpara: 127.33333333333333
  }
  {
    _id: 'Mochas',
    avgpara: 275
  }
```

```
> db.sales.aggregate([{$group:
  {_id:'$item',avgpara:{$avg:{$multiply:['$price','$quantity']}}}},{
      $match: {
        avgpara: { $gt: 140 }
      }
    },
    {
      $sort: {
        avgpara: -1
      }
    }])
< {
    _id: 'Lattes',
    avgpara: 562.5
  }
  {
    _id: 'Mochas',
    avgpara: 275
  }
```

```
> db.sales.aggregate([{$group:{_id:'$item',itemcount:{$count:{}}}}])
< {
    _id: 'Cappuccino',
    itemcount: 3
  }
  {
    _id: 'Mochas',
    itemcount: 1
  }
  {
    _id: 'Lattes',
    itemcount: 2
  }
  {
    _id: 'Americanos',
    itemcount: 4
  }
```

```
> db.sales.aggregate([{$group:{_id:"$item",sumItems:{$sum:"$quantity"}}}])
< {
    _id: 'Cappuccino',
    sumItems: 49
  }
  {
    _id: 'Mochas',
    sumItems: 11
  }
  {
    _id: 'Americanos',
    sumItems: 70
  }
  {
    _id: 'Lattes',
    sumItems: 55
  }
```

```
> db.sales.aggregate([{$group:{_id:"$item",sumItems:{$sum:"$price"}}},
                      {$match:{sumItems:{$gt:100}}}]).limit(2)
⊗ ▸ TypeError: db.sales.aggre ... 0}}}]).limit is not a function
> db.sales.aggregate([{$group:{_id:"$item",sumItems:{$sum:"$price"}}},
                      {$match:{sumItems:{$gt:100}}},{$limit:2}])
<
> db.sales.aggregate([{$group:{_id:"$item",sumItems:{$sum:"$price"}}},
                      {$match:{sumItems:{$gte:100}}},{$limit:2}])
<
> db.sales.aggregate([{$group:{_id:"$item",sumItems:{$sum:"$price"}}},
                      {$match:{sumItems:{$gte:10}}},{$limit:2}])
< {
    _id: 'Cappuccino',
    sumItems: 23
  }
  {
    _id: 'Lattes',
    sumItems: 40
  }
```

```
> db.sales.aggregate([{$group:{_id:"$item",sumItems:{$sum:"$price"}}},
                      {$sort:{sumItems:-1}}])
< {
    _id: 'Lattes',
    sumItems: 40
  }
  {
    _id: 'Americanos',
    sumItems: 33
  }
  {
    _id: 'Mochas',
    sumItems: 25
  }
  {
    _id: 'Cappuccino',
    sumItems: 23
  }
```

```
> db.sales.aggregate({$group:{_id:null, maxQty:{$max:'$quantity'}}})
< {
    _id: null,
    maxQty: 30
  }
> db.sales.aggregate([{$group:{_id:null, maxQty:{$max:'$quantity'}}},{$project:{_id:0}}])
< {
    maxQty: 30
  }
> db.sales.aggregate([{$group:{_id:'$item', minQty:{$min:'$quantity'}}},{$project:{_id:0}}])
< {
    minQty: 12
  }
  {
    minQty: 12
  }
  {
    minQty: 11
  }
  {
    minQty: 25
  }
```

```
> db.sales.aggregate([{$group:{_id:'$item', minQty:{$min:'$quantity'}}},{$project:{_id:1}}])
< {
    _id: 'Americanos'
  }
  {
    _id: 'Cappuccino'
  }
  {
    _id: 'Mochas'
  }
  {
    _id: 'Lattes'
  }
```

```
> db.sales.aggregate([{$group:{_id:'$item', minQty:{$min:'$quantity'}}},{$project:{_id:1, minQt
< {
    _id: 'Lattes',
    minQty: 25
  }
  {
    _id: 'Cappuccino',
    minQty: 12
  }
  {
    _id: 'Mochas',
    minQty: 11
  }
  {
    _id: 'Americanos',
    minQty: 12
  }
```