```
>_MONGOSH
> db.sales.aggregate([
 $group :{
 _id: null,
 maxQty: { $min: '$quantity'},
 },
 },
  {
 $project: {
 _id: 0,
 },
 },
 1);
< {
  maxQty: 11
> db.sales.aggregate([
  {
 $group :{
 _id: null,
 minQty: { $max: '$quantity'},
 },
 },
  {
 $project: {
 _id: 0,
 },
```

```
db.sales.aggregate([
   $group: {
   _id: '$item',
  maxQty: { $min : { $multiply: [ '$quantity','$price']},},},]);
< €
      _id: 'Cappuccino',
      maxQty: 72
   }
   {
      _id: 'Lattes',
      maxQty: 375
   }
   {
      _id: 'Mochas',
      maxQty: 275
   }
      _id: 'Americanos',
      maxQty: 110
   }
test>
 > MONGOSH
 > db.sales.aggregate([{$group:{_id:"$item",sumItems:{$sum:"$quantity"}}}])
  db.sales.drop()
  > db.sales.insertMany([
    { "_id" : 1, "item" : "Americanos", "price" : 5, "size": "Short", "quantity" : 22, "date" : ISODate("2022-01-15T08:00:00Z") },
    { "_id" : 2, "item" : "Cappuccino", "price" : 6, "size": "Short", "quantity" : 12, "date" : ISODate("2022-01-16T09:00:00Z") },
    { "_id" : 3, "item" : "Lattes", "price" : 15, "size": "Grande","quantity" : 25, "date" : ISODate("2022-01-16T09:05:00Z") },
    { "_id" : 4, "item" : "Mochas", "price" : 25,"size": "Tall", "quantity" : 11, "date" : ISODate("2022-02-17T08:00:00Z") },
    { "_id" : 5, "item" : "Americanos", "price" : 10, "size": "Grande", "quantity" : 12, "date" : ISODate("2022-02-18T21:06:00Z") },
    { "_id" : 6, "item" : "Cappuccino", "price" : 7, "size": "Tall", "quantity" : 20, "date" : ISODate("2022-02-20T10:07:00Z") },
    { "_id" : 7, "item" : "Lattes", "price" : 25,"size": "Tall", "quantity" : 30, "date" : ISODate("2022-02-21T10:08:00Z") },
    { "_id": 8, "item": "Americanos", "price": 10, "size": "Grande", "quantity": 21, "date": ISODate("2022-02-22T14:09:002") }, { "_id": 9, "item": "Cappuccino", "price": 10, "size": "Grande", "quantity": 17, "date": ISODate("2022-02-23T14:09:002") },
```

```
{
    _id: 'Mochas',
    itemCount: 1
}
{
    _id: 'Americanos',
    itemCount: 4
}
} db.sales.aggregate([
    {
        sgroup: {
            id: '$item',
        itemCount: {$count: {} },
      },
      {$match: { itemCount: {$gt: 2 } }, },
}
}

    (-id: 'Americanos',
    itemCount: 4
}
{
    _id: 'Cappuccino',
    itemCount: 3
}
```

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

```
>_MONGOSH
> db.sales.aggregate([
     $match: {
       price: { $gt: 8 }
     }
   },
   {
     $group: {
      _id: '$item', // Correct field reference
      averageQty: { $avg: '$quantity' }
     }
   }
 1)
< {
 _id: 'Americanos',
   averageQty: 16.5
 }
 {
  _id: 'Cappuccino',
   averageQty: 17
 }
 {
   _id: 'Mochas',
   averageQty: 11
 }
   _id: 'Lattes',
   averageQty: 27.5
```

```
>_MONGOSH
  }
   _id: 7,
    item: 'Lattes',
    price: 25,
    size: 'Tall',
    quantity: 30,
    date: 2022-02-21T10:08:00.000Z
  }
  {
   _id: 8,
    item: 'Americanos',
    price: 10,
    size: 'Grande',
    quantity: 21,
    date: 2022-02-22T14:09:00.000Z
  }
  {
   _id: 9,
   item: 'Cappuccino',
   price: 10,
    size: 'Grande',
    quantity: 17,
    date: 2022-02-23T14:09:00.000Z
  }
> db.sales.aggregate([
  $match: {
 price: {$gt:8}
```

```
>_MONGOSH
> db.sales.aggregate([
 $match: {
 price: {$gt:8}
 },
< {
   item: 'Lattes',
   price: 15,
   size: 'Grande',
   quantity: 25,
   date: 2022-01-16T09:05:00.000Z
   item: 'Mochas',
   price: 25,
   date: 2022-02-17T08:00:00.000Z
   item: 'Americanos',
   price: 10,
   size: 'Grande',
```

```
_MONGOSH
> db.sales.aggregate([
$group: {
 _id: '$item',
averageQty: {$avg: '$quantity'},
 },
 },
 1);
< {
  _id: 'Mochas',
  averageQty: 11
 }
  _id: 'Americanos',
  averageQty: 17.5
 }
  _id: 'Lattes',
  averageQty: 27.5
 }
  _id: 'Cappuccino',
   > db.sales.aggregate([
   {
 $group: {
 price : {$gt:8 } ,
 averageOty: {$avg: '$quantity'}
```

```
_MONGOSH
 db.sales.aggregate([
 $match: { item: "Americanos"}
 $group: {
 _id : "$size", totalQty: {$sum: "$quantity"}
 $sort: {totalQty: -1}
MONGOSH
db.products.deleteMany({"price":699})
db.products.deleteManv({price:{$gt:600}})
db.products.drop()
db.sales.insertMany([
 { "_id" : 1, "item" : "Americanos", "price" : 5, "size": "Short", "quantity" : 22, "date" : ISODate("2022-01-15T08:00:00Z") },
  { "_id" : 2, "item" : "Cappuccino", "price" : 6, "size": "Short", "quantity" : 12, "date" : ISODate("2022-01-16T09:00:00Z") },
  { "_id" : 3, "item" : "Lattes", "price" : 15, "size": "Grande", "quantity" : 25, "date" : ISODate("2022-01-16T09:05:00Z") },
 { "_id" : 4, "item" : "Mochas", "price" : 25,"size": "Tall", "quantity" : 11, "date" : ISODate("2022-02-17T08:00:00Z") },
 { "_id" : 5, "item" : "Americanos", "price" : 10, "size": "Grande", "quantity" : 12, "date" : ISODate("2022-02-18T21:06:00Z") },
 { "_id" : 6, "item" : "Cappuccino", "price" : 7, "size": "Tall","quantity" : 20, "date" : ISODate("2022-02-20T10:07:00Z") },
 { "_id" : 7, "item" : "Lattes", "price" : 25,"size": "Tall", "quantity" : 30, "date" : ISODate("2022-02-21T10:08:00Z") },
 { "_id" : 8, "item" : "Americanos", "price" : 10, "size": "Grande","quantity" : 21, "date" : ISODate("2022-02-22T14:09:00Z") },
  { "_id" : 9, "item" : "Cappuccino", "price" : 10, "size": "Grande", "quantity" : 17, "date" : ISODate("2022-02-23T14:09:00Z") },
  { "_id" : 10, "item" : "Americanos", "price" : 8, "size": "Tall","quantity" : 15, "date" : ISODate("2022-02-25T14:09:00Z")}
```

```
db.products.drop()
true
db.products.insertMany([
    { "_id" : 1, "name" : "xPhone", "price" : 799, "releaseDate": ISODate("20
    { "_id" : 2, "name" : "xTablet", "price" : 899, "releaseDate": ISODate("2
    { "_id" : 3, "name" : "SmartTablet", "price" : 899, "releaseDate": ISODat
    { "_id" : 4, "name" : "SmartPad", "price" : 699, "releaseDate": ISODate("
    { "_id" : 5, "name" : "SmartPhone", "price" : 599, "releaseDate": ISODate(
 1)
{
  acknowledged: true,
  insertedIds: {
    '1': 2,
    121: 3,
    131: 4,
    141: 5
  }
db.products.deleteOne({})
  acknowledged: true,
db.products.deleteMany({"price":699})
```