```
db.sales.aggregate([{$group:{_id:'$item',averageQty:{$avg:'$quantity'},},},])
{
    _id: 'Americanos',
    averageQty: 17.5
  }
  {
    _id: 'Mochas',
    averageQty: 11
  }
  {
    _id: 'Cappuccino',
    averageQty: 16.333333333333332
  }
  {
    _id: 'Lattes',
    averageQty: 27.5
  }
db.sales1.aggregate([{$match:{price:{$gte:8}}},
  {
    $group: {
      _id: "$item",
      averagePrice: { $avg: "$price" }
    }
  }
]);

  { $match: { quantity: { $gt: 8 } } },
  {
    $group: {
      _id: "$item",
      avgPrice: { $avg: "$price" }
    }
  }
}
```

```
> db.sales.aggregate([{$match:{price:{$gt:8}}},{$group:{_id:"$item",avgprice:{$avg:"$price"}}}]);
< {
    _id: 'Cappuccino',
    avgprice: 10
  }
  {
    _id: 'Americanos',
    avgprice: 10
  }
  {
    _id: 'Lattes',
    avgprice: 20
  }
  {
    _id: 'Mochas',
    avgprice: 25
  }
> db.sales.aggregate([{$group:{_id:'$item',avgRevenue:{$avg:{$multiply:['$price','$quantity']}}}}])
< {
    _id: 'Cappuccino',
    avgRevenue: 127.33333333333
  }
  {
    _id: 'Lattes',
    avgRevenue: 562.5
  }
  {
    _id: 'Americanos',
    avgRevenue: 140
  }
  {
    _id: 'Mochas',
```

```
db.sales.aggregate([{$group:{_id:"$item",avgprice:{$avg:{$multiply:["$price","$quantity"]}}}},
                    {$match:{avgprice:{$gte:140}}},
                    {$sort:{avgprice:-1}}])
{
    _id: 'Lattes',
    avgprice: 562.5
}
{
    _id: 'Mochas',
    avgprice: 275
}
{
    _id: 'Americanos',
    avgprice: 140
}
db.sales.drop()
true
```

```
> db.sales.aggregate([
    {
      $group: {
        _id: "$item",
        itemCount: { $sum: 1 }
      }
    },
    {
      $match: {
        itemCount: { $gt: 2 }
      }
    }
  ])
< {
    _id: 'Cappuccino',
    itemCount: 3
  }
  {
    _id: 'Americanos',
    itemCount: 4
  }
> db.sales.aggregate([
    {
      $group: {
        _id: "$item",
        itemCount: { $count: {} }
```

```
> db.sales.aggregate([{$group:{_id:"$item",sumItems:{$sum:"$quantity"}}}])
<  {
    _id: 'Lattes',
    sumItems: 55
  }
  {
    _id: 'Mochas',
    sumItems: 11
  }
  {
    _id: 'Cappuccino',
    sumItems: 49
  }
  {
    _id: 'Americanos',
    sumItems: 70
  }
> db.sales.aggregate([
    {
      $group: {
        _id: "$item",
        totalQuantity: { $sum: "$quantity" }
      }
    },
    {
      $match: {
        totalQuantity: { $gt: 100 }
      }
    }
  ])
<
```

```
db.sales.aggregate([
  {
    $group: {
      _id: "$item",
      totalRevenue: { $sum: { $multiply: ["$price", "$quantity"] } }
    }
  },
  {
    $match: {
      totalRevenue: { $gt: 100 }
    }
  },
  {
    $sort: { totalRevenue: -1 }
  }
])
{
  _id: 'Lattes',
  totalRevenue: 1125
}
{
  _id: 'Americanos',
  totalRevenue: 560
}
{
  _id: 'Cappuccino',
  totalRevenue: 382
}
{
  _id: 'Mochas',
  totalRevenue: 275
}
```