

#Data:

```
> db.orders.find().pretty()
{
  "_id" : 1,
  "cust_id" : "A1",
  "DOR" : ISODate("2023-01-05T00:00:00Z"),
  "price" : 250,
  "items" : [
    {
      "sku" : "oranges",
      "qty" : 5,
      "price" : 10
    },
    {
      "sku" : "apples",
      "qty" : 5,
      "price" : 10
    }
  ],
  "status" : "P"
}
{
  "_id" : 2,
  "cust_id" : "A2",
  "DOR" : ISODate("2023-01-20T00:00:00Z"),
  "price" : 500,
  "items" : [
    {
      "sku" : "oranges",
      "qty" : 10,
      "price" : 10
    },
    {
      "sku" : "apples",
      "qty" : 10,
      "price" : 10
    }
  ],
  "status" : "P"
}
{
  "_id" : 3,
  "cust_id" : "A3",
  "DOR" : ISODate("2023-01-25T00:00:00Z"),
  "price" : 500,
  "items" : [
    {
      "sku" : "oranges",
      "qty" : 10,
      "price" : 10
    },
    {
      "sku" : "apples",
      "qty" : 10,
      "price" : 10
    }
  ],
  "status" : "D"
}
{
  "_id" : 4,
  "cust_id" : "A4",
  "DOR" : ISODate("2023-01-29T00:00:00Z"),
  "price" : 700,
```

```

70         "items" : [
71             {
72                 "sku" : "oranges",
73                 "qty" : 12,
74                 "price" : 25
75             },
76             {
77                 "sku" : "apples",
78                 "qty" : 10,
79                 "price" : 10
80             }
81         ],
82         "status" : "D"
83     }
84

```

85 1.Display total price per customer

```

86
87     > var map=function(){emit(this.cust_id,this.price);};
88
89     > var reduce=function(cust_id,price){return Array.sum(price);};
90
91     > db.orders.mapReduce(map,reduce,{out:'result1'})
92     { "result" : "result1", "ok" : 1 }
93
94     > db.result1.find()
95     { "_id" : "A3", "value" : 500 }
96     { "_id" : "A2", "value" : 500 }
97     { "_id" : "A1", "value" : 250 }
98     { "_id" : "A4", "value" : 700 }
99

```

100 2.Display total price per customer having status=D.

```

101
102     > var map=function(){emit(this.cust_id,this.price);};
103     > var reduce=function(cust_id,price){return Array.sum(price);};
104
105     > db.orders.mapReduce(map,reduce,{out:'result', query:{status:"D"}})
106     { "result" : "result", "ok" : 1 }
107
108     > db.result.find()
109     { "_id" : "A3", "value" : 500 }
110     { "_id" : "A4", "value" : 700 }
111

```

112 3.Display total price for status ='P'.

```

113
114     > var map=function(){emit(this.cust_id,this.price);};
115
116     > var reduce=function(cust_id,price){return Array.sum(price);};
117
118     > db.orders.mapReduce(map,reduce,{out:'result2', query:{status:"P"}})
119     { "result" : "result2", "ok" : 1 }
120
121     > db.result2.find()
122     { "_id" : "A2", "value" : 500 }
123     { "_id" : "A1", "value" : 250 }
124

```

125 4.Finding count of all keys in orders collection.

```

126
127     > var map=function(){for(var k in this){emit(k,{count:1})}};
128
129     > var reduce=function(keys,count){total=0;for(i in
count){total+=count[i].count};return {countK:total};}
130
131     > db.orders.mapReduce(map,reduce,{out:'new3'})
132     { "result" : "new3", "ok" : 1 }
133
134     > db.new3.find()
135     { "_id" : "DOR", "value" : { "countK" : 4 } }
136     { "_id" : "cust_id", "value" : { "countK" : 4 } }
137     { "_id" : "_id", "value" : { "countK" : 4 } }

```

```
138 { "_id" : "price", "value" : { "countK" : 4 } }
139 { "_id" : "status", "value" : { "countK" : 4 } }
140 { "_id" : "items", "value" : { "countK" : 4 } }
141
```