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DBMSL Assignment No 11
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Batch:T3

#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,
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        "items" : [
            {
                "sku" : "oranges",
                "qty" : 12,
                "price" : 25
            },
            {
                "sku" : "apples",
                "qty" : 10,
                "price" : 10
            }
        ],
        "status" : "D"
    }

1.Display total price per customer

    > var map=function(){emit(this.cust_id,this.price);};

    > var reduce=function(cust_id,price){return Array.sum(price);};

    > db.orders.mapReduce(map,reduce,{out:'result1'})
    { "result" : "result1", "ok" : 1 }

    > db.result1.find()
    { "_id" : "A3", "value" : 500 }
    { "_id" : "A2", "value" : 500 }
    { "_id" : "A1", "value" : 250 }
    { "_id" : "A4", "value" : 700 }

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

    > var map=function(){emit(this.cust_id,this.price);};
    > var reduce=function(cust_id,price){return Array.sum(price);};

    > db.orders.mapReduce(map,reduce,{out:'result', query:{status:"D"}})
    { "result" : "result", "ok" : 1 }

    > db.result.find()
    { "_id" : "A3", "value" : 500 }
    { "_id" : "A4", "value" : 700 }

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

    > var map=function(){emit(this.cust_id,this.price);};

    > var reduce=function(cust_id,price){return Array.sum(price);};

    > db.orders.mapReduce(map,reduce,{out:'result2', query:{status:"P"}})
    { "result" : "result2", "ok" : 1 }

    > db.result2.find()
    { "_id" : "A2", "value" : 500 }
    { "_id" : "A1", "value" : 250 }

4.Finding count of all keys in orders collection.

    > var map=function(){for(var k in this){emit(k,{count:1})};};

    > var reduce=function(keys,count){total=0;for(i in
    count){total+=count[i].count};return {countK:total};}

    > db.orders.mapReduce(map,reduce,{out:'new3'})
        { "result" : "new3", "ok" : 1 }

    > db.new3.find()
        { "_id" : "DOR", "value" : { "countK" : 4 } }
        { "_id" : "cust_id", "value" : { "countK" : 4 } }
        { "_id" : "_id", "value" : { "countK" : 4 } }
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        { "_id" : "price", "value" : { "countK" : 4 } }
        { "_id" : "status", "value" : { "countK" : 4 } }
        { "_id" : "items", "value" : { "countK" : 4 } }

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