

NoSQL - 2 - Customer Database

Question:

(Week 9)

**1. Create a collection by name Customers with the following attributes:
Cust_id, Acc_Bal, Acc_Type**

```
db.createCollection("Customers");
```

```
Atlas atlas-mdgaz1-shard-0 [primary] DBMS_Demo> db.createCollection("Customers");  
{ ok: 1 }
```

2. Insert at least 5 values into the table

```
db.Customers.insert({cust_id:1,Balance:200, Type:"S"});  
db.Customers.insert({cust_id:1,Balance:1000, Type:"Z"})  
db.Customers.insert({cust_id:2,Balance:100, Type:"Z"});  
db.Customers.insert({cust_id:2,Balance:1000, Type:"C"});  
db.Customers.insert({cust_id:2,Balance:500, Type:"C"});  
db.Customers.insert({cust_id:2,Balance:50, Type:"S"});  
db.Customers.insert({cust_id:3,Balance:500, Type:"Z"});
```

```

{
  _id: ObjectId("63c51fce5032513088c2cd9e"),
  cust_id: 1,
  Balance: 200,
  Type: 'S'
},
{
  _id: ObjectId("63c520465032513088c2cd9f"),
  cust_id: 1,
  Balance: 1000,
  Type: 'Z'
},
{
  _id: ObjectId("63c520585032513088c2cda0"),
  cust_id: 2,
  Balance: 100,
  Type: 'Z'
},
{
  _id: ObjectId("63c5208d5032513088c2cda1"),
  cust_id: 2,
  Balance: 1000,
  Type: 'C'
},
{
  _id: ObjectId("63c520a55032513088c2cda2"),
  cust_id: 2,
  Balance: 500,
  Type: 'C'
},
{
  _id: ObjectId("63c520b55032513088c2cda3"),
  cust_id: 2,
  Balance: 50,
  Type: 'S'
},
{
  _id: ObjectId("63c520f15032513088c2cda4"),
  cust_id: 3,
  Balance: 500,
  Type: 'Z'
}

```

3. Write a query to display those records whose total account balance is greater than 1200 of account type 'Z' for each customer_id.

```

db.Customers.aggregate ( { $match: { Type: "Z" } },
{ $group : { _id : "$cust_id",
TotAccBal : { $sum: "$Balance" } } }, { $match: { TotAccBal: { $gt: 1200 } } });

```

```

{ _id: 3, TotAccBal: 1400 }

```

4. Determine Minimum and Maximum account balance for each customer_id.

```
db.Customers.aggregate (  
  {$group : { _id : "$cust_id",  
    minAccBal : {$min:"$Balance"}, maxAccBal : {$max:"$Balance"} } });
```

```
{ _id: 2, minAccBal: 50, maxAccBal: 1000 },  
{ _id: 1, minAccBal: 200, maxAccBal: 1000 },  
{ _id: 3, minAccBal: 500, maxAccBal: 900 }
```

5. Drop the table

```
db.Customers.drop()
```

```
Atlas atlas-mdgaz1-shard-0 [primary] DBMS_Demo> db.Customers.drop()  
true
```