

Create Database

```
test> db.createCollection("customer");
{ ok: 1 }
```

Create table

```
test> db.customer.insert({"Cust_id":1,"Acc_Bal":5000,"Acc_Type":"Savings"});
DeprecationWarning: Collection.insert() is deprecated. Use insertOne, insertMany, or bulkWrite.
{
  acknowledged: true,
  insertedIds: { '0': ObjectId('693faa69c75a2a4b111e2626') }
}
test> db.customer.insert({"Cust_id":2,"Acc_Bal":7500,"Acc_Type":"Savings"});
{
  acknowledged: true,
  insertedIds: { '0': ObjectId('693faa75c75a2a4b111e2627') }
}
test> db.customer.insert({"Cust_id":3,"Acc_Bal":200,"Acc_Type":"Transactions"});
{
  acknowledged: true,
  insertedIds: { '0': ObjectId('693faaa4c75a2a4b111e2628') }
}
test> db.customer.insert({"Cust_id":4,"Acc_Bal":10000,"Acc_Type":"Savings"});
{
  acknowledged: true,
  insertedIds: { '0': ObjectId('693faabac75a2a4b111e2629') }
}
test> db.customer.insert({"Cust_id":5,"Acc_Bal":1000,"Acc_Type":"Transactions"});
{
  acknowledged: true,
  insertedIds: { '0': ObjectId('693faacbc75a2a4b111e262a') }
```

Queries

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

```
Atlas atlas-3acvm6-shard-0 [primary] DBME_DEMO> db.Customers.find({ Acc_Bal: { $gt: 1200 }, Acc_Type: "Z" })
[
  {
    _id: ObjectId('693f8376701108f7231e262c'),
    Cust_id: 1,
    Acc_Bal: 1500,
    Acc_Type: 'Z'
  },
  {
    _id: ObjectId('693f8376701108f7231e262e'),
    Cust_id: 3,
    Acc_Bal: 2000,
    Acc_Type: 'Z'
  },
  {
    _id: ObjectId('693f8376701108f7231e2630'),
    Cust_id: 5,
    Acc_Bal: 1800,
    Acc_Type: 'Z'
  }
]
```

Determine Minimum and Maximum account balance for each customer_id.

```
Atlas atlas-3acvm6-shard-0 [primary] DBME_DEMO> db.Customers.aggregate([
...   {
...     $group: {
...       _id: "$Cust_id",
...       Min_Bal: { $min: "$Acc_Bal" },
...       Max_Bal: { $max: "$Acc_Bal" }
...     }
...   }
... ])
...
[
  { _id: 5, Min_Bal: 1800, Max_Bal: 1800 },
  { _id: 2, Min_Bal: 800, Max_Bal: 800 },
  { _id: 4, Min_Bal: 500, Max_Bal: 500 },
  { _id: 3, Min_Bal: 2000, Max_Bal: 2000 },
  { _id: 1, Min_Bal: 1500, Max_Bal: 1500 }
]
```

Export the created collection into local file system

```
C:\Users\BMSCECSE-L3-27>mongoexport --uri="mongodb+srv://annapurna_cs24_user:anusm060706@cluster0.eavkt.npmongodb.net/DBME_DEMO" --collection=New_Customer --type=csv --fields=Cust_id,Acc_Bal,Acc_Type --out="C:\Users\BMSCECSE-L3-27\Downloads\New_Customer_Export.csv"
2025-12-15T09:35:30.774+0530    connected to: mongodb+srv://[*REDACTED*]@cluster0.eavkt.npmongodb.net/DBME_DEMO
2025-12-15T09:35:30.856+0530    exported 5 records
```

Drop the table

```
Atlas atlas-3acvm6-shard-0 [primary] DBME_DEMO> db.Customers.drop()
true
```

Import a given csv dataset from local file system into mongodb collection

```
C:\Users\BMSCECSE-L3-27>mongoimport --uri="mongodb+srv://annapurna_cs24_user:anusm060706@cluster0.eavkt.npmongodb.net/DBME_DEMO" --collection=New_Customer --type=csv --headerline --file="C:\Users\BMSCECSE-L3-27\Downloads\New_Customer_Export.csv"
2025-12-15T09:35:58.160+0530    connected to: mongodb+srv://[*REDACTED*]@cluster0.eavkt.npmongodb.net/DBME_DEMO
2025-12-15T09:35:58.234+0530    5 document(s) imported successfully. 0 document(s) failed to import.
```

