NoSQL

Part 2

- 1. Create a collection by name Customers with the following attributes.Cust_id, Acc_Bal, Acc_Type
- 2. Insert at least 5 values into the table
- 3. Write a query to display those records whose total account balance

is greater than 1200 of account type 'Z' for each customer id.

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

Create Database

db.createCollection("Customers");

```
Atlas atlas-iq9kv4-shard-0 [primary] lab9> db.createCollection("customer"); { ok: 1 }
```

Insert Values

```
db.customer.insert({custid:1,accbalance:10000,acctype:'A'}); db.customer.insert({custid:1,accbalance:20000,acctype:'Y'}); db.customer.insert({custid:1,accbalance:30000,acctype:'Z'}); db.customer.insert({custid:2,accbalance:40000,acctype:'A'}); db.customer.insert({custid:2,accbalance:80000,acctype:'A'}); db.customer.insert({custid:2,accbalance:15000,acctype:'A'}); db.customer.insert({custid:3,accbalance:25000,acctype:'A'}); db.customer.insert({custid:3,accbalance:30000,acctype:'A'}); db.customer.insert({custid:3,accbalance:9000,acctype:'A'});
```

```
Atlas atlas-iq9kv4-shard-0 [primary] lab9> db.customer.insert({custid:1,accbalance:10000,acctyp
DeprecationWarning: Collection.insert() is deprecated. Use insertOne, insertMany, or bulkWrite.
  acknowledged: true,
insertedIds: { '0': ObjectId("63cf612ddff1f75d350b5057") }
 .
htlas atlas-iq9kv4-shard-0 [primary] lab9> db.customer.insert({custid:1,accbalance:20000,acctype:'Y'});
  acknowledged: true,
insertedIds: { '0': ObjectId("63cf6189dff1f75d350b5058") }
 .
htlas atlas-iq9kv4-shard-0 [primary] lab9> db.customer.insert({custid:1,accbalance:30000,acctype:'Z'});
  acknowledged: true,
insertedIds: { '0': ObjectId("63cf619bdff1f75d350b5059") }
 tlas atlas-iq9kv4-shard-0 [primary] lab9> db.customer.insert({custid:2,accbalance:40000,acctype:'A'});
  acknowledged: true,
insertedIds: { '0': ObjectId("63cf61d7dff1f75d350b505a") }
;
Atlas atlas-iq9kv4-shard-0 [primary] lab9> db.customer.insert({custid:2,accbalance:80000,acctype:'Y'});
  acknowledged: true,
insertedIds: { '0': ObjectId("63cf61e8dff1f75d350b505b") }
;
Atlas atlas-iq9kv4-shard-0 [primary] lab9> db.customer.insert({custid:2,accbalance:15000,acctype:'Z'});
  acknowledged: true,
insertedIds: { '0': ObjectId("63cf61ffdff1f75d350b505c") }
;
Atlas atlas-iq9kv4-shard-0 [primary] lab9> db.customer.insert({custid:3,accbalance:25000,acctype:'A'});
  acknowledged: true,
insertedIds: { '0': ObjectId("63cf6214dff1f75d350b505d") }
;
Atlas atlas-iq9kv4-shard-0 [primary] lab9> db.customer.insert({custid:3,accbalance:30000,acctype:'Y'});
  acknowledged: true,
insertedIds: { '0': ObjectId("63cf622fdff1f75d350b505e") }
 tlas atlas-iq9kv4-shard-0 [primary] lab9> db.customer.insert({custid:3,accbalance:9000,acctype:'Z'});
  acknowledged: true,
insertedIds: { '0': ObjectId("63cf6249dff1f75d350b505f") }
```

```
Atlas atlas-iq9kv4-shard-0 [primary] lab9> db.customer.find()
    _id: ObjectId("63cf612ddff1f75d350b5057"),
    custid: 1,
    accbalance: 10000,
    acctype: 'A'
    id: ObjectId("63cf6189dff1f75d350b5058"),
    accbalance: 20000,
    acctype: 'Y'
    id: ObjectId("63cf619bdff1f75d350b5059"),
    custid: 1,
    accbalance: 30000,
    acctype: 'Z'
    _id: ObjectId("63cf61d7dff1f75d350b505a"),
    custid: 2,
    accbalance: 40000,
    acctype: 'A'
    _id: ObjectId("63cf61e8dff1f75d350b505b"), custid: 2,
    accbalance: 80000,
    acctype: 'Y'
    _id: ObjectId("63cf61ffdff1f75d350b505c"), custid: 2,
    accbalance: 15000,
    acctype: 'Z'
    _id: ObjectId("63cf6214dff1f75d350b505d"), custid: 3,
    accbalance: 25000,
    acctype: 'A'
    _id: ObjectId("63cf622fdff1f75d350b505e"), custid: 3,
    accbalance: 30000,
    acctype: 'Y'
    _id: ObjectId("63cf6249dff1f75d350b505f"),
    custid: 3,
    accbalance: 9000,
    acctype: 'Z'
```

Queries

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

db.customer.find({acctype:'Z',accbalance:{\$gt:1200}})

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

```
db.customer.aggregate([{$group:{_id:"$custid","accbalance":{$max:"accbalance"}}}])
db.customer.aggregate([{$group:{_id:"$custid","accbalance":{$min:"accbalance"}}}])
```

3. Export the created collection into local file system

```
F:\mongodb>mongoexport mongodb+srv://revanth10:revanth@cluster0.dyo62sf.mongodb.net/week10 --collection=c
tomers --out F:\mongodb\Downloads\customeroutput.json

2023-01-24T18:25:41.177+0530 connected to: mongodb+srv://[**REDACTED**]@cluster0.dyo62sf.mongodb.net/week10
exported 8 records
```

4. Drop the table

db.customer.drop();

```
Atlas atlas-125fdy-shard-0 [primary] week10> db.Customers.drop();
true
Atlas atlas-125fdy-shard-0 [primary] week10>
```

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

```
2023-01-24T18:33:21.636+0530 connected to: mongodb+srv://[**REDACTED**]@cluster0.dyo62sf.mongodb.net/week10 2023-01-24T18:33:22.074+0530 8 document(s) imported successfully. 0 document(s) failed to import.
```