NoSQL-2

Week-10

Question

- 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.
- 5. Export the created collection into local file system
- 6. Drop the table
- 7. Import a given csv dataset from local file system into mongodb collection.

Create database

 $mongosh \verb| "mongodb+srv: | / cluster 0. dyo 62sf. mongodb.net / week 10" -- api Version 1 -- username chinmay i 10" -- api Version 1 -- api Version 1$

db.createCollection("Customers");

Creating & Inserting Values to the table

```
db.Customers.insert({cust_id:1,acc_bal:2000,acc_type:"Z"});
db.Customers.insert({cust_id:2,acc_bal:1000,acc_type:"Z"});
db.Customers.insert({cust_id:3,acc_bal:1500,acc_type:"A"});
db.Customers.insert({cust_id:4,acc_bal:3500,acc_type:"A"});
db.Customers.insert({cust_id:1,acc_bal:4000,acc_type:"Z"});
db.Customers.insert({cust_id:2,acc_bal:2000,acc_type:"A"});
db.Customers.insert({cust_id:3,acc_bal:4000,acc_type:"Z"});
db.Customers.insert({cust_id:4,acc_bal:1000,acc_type:"Z"});
```

```
mongosh mongodb+srv://<credentials>@cluster0.dyo62sf.mongodb.net/week10
     ecationWarning: Collection.insert() is deprecated. Use insertOne, insertMany, or bulkWrite.
  acknowledged: true,
insertedIds: { '0': ObjectId("63cf5b5111e198c7549e2b7d") }
Atlas atlas-125fdy-shard-0 [primary] week10> db.Customers.insert({cust_id:2,acc_bal:1000,acc_type:"Z"});
 acknowledged: true,
insertedIds: { '0': ObjectId("63cf5b6111e198c7549e2b7e") }
J
Atlas atlas-125fdy-shard-0 [primary] week10> db.Customers.insert({cust_id:3,acc_bal:1500,acc_type:"A"});
  acknowledged: true, insertedIds: { '0': ObjectId("63cf5b7b11e198c7549e2b7f") }
,
Atlas atlas-125fdy-shard-0 [primary] week10> db.Customers.insert({cust_id:4,acc_bal:3500,acc_type:"A"});
 acknowledged: true,
insertedIds: { '0': ObjectId("63cf5b9111e198c7549e2b80") }
;
Atlas atlas-125fdy-shard-0 [primary] week10> db.Customers.insert({cust_id:1,acc_bal:4000,acc_type:"Z"});
 acknowledged: true,
insertedIds: { '0': ObjectId("63cf5c7811e198c7549e2b81") }
 tlas atlas-125fdy-shard-0 [primary] week10> db.Customers.insert({cust_id:2,acc_bal:2000,acc_type:"A"});
  acknowledged: true,
insertedIds: { '0': ObjectId("63cf5c9711e198c7549e2b82") }
p
Atlas atlas-125fdy-shard-0 [primary] week10> db.Customers.insert({cust_id:3,acc_bal:4000,acc_type:"Z"});
  acknowledged: true,
insertedIds: { '0': ObjectId("63cf5cae11e198c7549e2b83") }
;
Atlas atlas-125fdy-shard-0 [primary] week10> db.Customers.insert({cust_id:4,acc_bal:1000,acc_type:"Z"});
 acknowledged: true, insertedIds: { '0': ObjectId("63cf5cce11e198c7549e2b84") }
,
Atlas atlas-125fdy-shard-0 [primary] week10>
```

db.Customers.find()

mongosh mongodb+srv://<credentials>@cluster0.dyo62sf.mongodb.net/week10

_id: ObjectId("63cf5c7811e198c7549e2b81"),

_id: ObjectId("63cf5c9711e198c7549e2b82"),

cust_id: 1, acc_bal: 4000, acc_type: 'Z'

cust_id: 2, acc_bal: 2000, acc_type: 'A'

```
acc_bal: 4000,
    acc_type: 'Z'
},
{
    _id: ObjectId("63cf5c9711e198c7549e2b82"),
    cust_id: 2,
    acc_bal: 2000,
    acc_type: 'A'
},
{
    _id: ObjectId("63cf5cae11e198c7549e2b83"),
    cust_id: 3,
    acc_bal: 4000,
    acc_type: 'Z'
},
{
    _id: ObjectId("63cf5cce11e198c7549e2b84"),
    cust_id: 4,
    acc_bal: 1000,
    acc_type: 'Z'
}
Atlas atlas-125fdy-shard-0 [primary] week10>
```

Queries

- 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.find({acc type:"Z",acc bal:{\$gt:1200}})

- 4. Determine Minimum and Maximum account balance for each customer id.
- db.Customers.aggregate([{\$group:{ id:"cust id","acc bal":{\$min:"\$acc bal"}}}])
- db.Customers.aggregate([{\$group:{_id:"cust_id","acc_bal":{\$max:"\$acc_bal"}}}])

5.Export the created collection into local file system

mongoexport mongodb+srv://chinmayi10:bmsce045@cluster0.dyo62sf.mongodb.net/week10 --collection=Customers --out F:\mongodb\Downloads\customeroutput.json

```
Microsoft Windows [Version 10.0.19045.2486]
(c) Microsoft Corporation. All rights reserved.

F:\mongodb>mongoexport mongodb+srv://chinmayi10:bmsce045@cluster0.dyo62sf.mongodb.net/week10 --collection=Customers --out F:\mongodb\Downloads\customeroutput.json
2023-01-24T18:25:41.177+0530 connected to: mongodb+srv://[**REDACTED**]@cluster0.dyo62sf.mongodb.net/week10
2023-01-24T18:25:41.691+0530 exported 8 records

F:\mongodb>
```

6.Drop the table

db.Customers.drop();

```
mongosh mongodb+srv://<credentials>@cluster0.dyo62sf.mongodb.net/week10 — X

{ _id: 2, acc_bal: 2000 }

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

true

Atlas atlas-125fdy-shard-0 [primary] week10>
```

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

mongoimport mongodb+srv://chinmayi10:bmsce045@cluster0.dyo62sf.mongodb.net/week10 --collection=New Customers --type json --file F:\mongodb\Downloads\customeroutput.json

db.New_Customer.find()

```
mongosh mongodb+srv://<credentials>@cluster0.dyo62sf.mongodb.net/week10

cust_id: 2,
    acc_bal: 1000,
    acc_type: 'Z'
},
{
    _id: ObjectId("63cf5b7b11e198c7549e2b7f"),
    cust_id: 3,
    acc_bal: 1500,
    acc_type: 'A'
},

[_id: ObjectId("63cf5b9111e198c7549e2b80"),
    cust_id: 4,
    acc_bal: 3500,
    acc_type: 'A'
}
Atlas atlas-125fdy-shard-0 [primary] week10>
```