[Practical-2]

MongoDB CRUD Operations and MongoDB Compass [Create | Read]

1. Create a database social_platform using GUI Environment.

2. Create collection with account that can store the data of social platform with following fields:

       a. userId as Number,

       b. username as array [git, linkedin, fb],

       c. password,

       d. email_id,

       e. followers,

       f. status(active|Inactive)

3. Insert records of your 10 users using insert(), insertOne() and InsertMany() functions on console.

4. Print the Document of 4th user 5. Format the Documents using forEach()

6. Print the Name of users who are having followers more than 50.

7. Print the name, email, Followers of users[6-10]

8. Print the name of the users whose status is inactive and whose password is not mentioned or whose followers are less than 10.

9. Create a new collection social_platform1 with same no. of users using MongoDB Compass GUI.

10. Add new field in the document using GUI.

Implementation:

1.

> use social_platform

switched to db social_platform

3.

 > db.account.insertOne({userID : 15, userName : ["git","linkedin","fb"], password : "abc@123", email_ID : "ab@gmail.com", followers : 10, status : "Inactive"})

```
{         "acknowledged" : true,

          "insertedId" : ObjectId("600cc37abd395a43e997489f")

}
```

> db.account.insert({userID : 5, userName : ["git","linkedin","fb"], password : "ac@123", email_ID : "ac@gmail.com", followers : 1, status : "active"})

WriteResult({ "nInserted" : 1 })

> var a = [... ... {userID : 150, userName : ["git","linkedin"], password : "abc@23", email_ID : "bc@gmail.com", followers : 0, status : "Inactive"} ... , {userID : 1, userName : ["git"], password : "abc@23", email_ID : "abc1@gmail.com", followers : 100, status : "Inactive"} ... , {userID : 14, userName : ["fb"], password : "abc@13", email_ID : "abc2@gmail.com", followers : 17, status : "Inactive"} ... , {userID : 55, userName : ["git","linkedin","fb"], password : "abc@12", email_ID : "ab1c@gmail.com", followers : 107, status : "active"} ... , {userID : 50, userName : ["git","linkedin"], password : "c@123", email_ID : "a22bc@gmail.com", followers : 190, status : "active"} ... , {userID : 95, userName : ["linkedin"], password : "ac@123", email_ID : "abnbc@gmail.com", followers : 210, status : "Inactive"} ... , {userID : 65, userName : ["git","linkedin","fb"], password : "abc@23", email_ID : "ab1155c@gmail.com", followers : 7, status : "Inactive"} ... , {userID : 115, userName : ["git"], password : "abc@1", email_ID : "a007bc@gmail.com", followers : 9, status : "Inactive"} ... ...]

> db.account.insertMany(a) {   "acknowledged" : true,   "insertedIds" : [
          ObjectId("600cc40bbd395a43e99748a1"),
ObjectId("600cc40bbd395a43e99748a2"),
ObjectId("600cc40bbd395a43e99748a3"),
ObjectId("600cc40bbd395a43e99748a4"),
ObjectId("600cc40bbd395a43e99748a5"),
ObjectId("600cc40bbd395a43e99748a6"),
ObjectId("600cc40bbd395a43e99748a7"),
ObjectId("600cc40bbd395a43e99748a8")   ] }

4.

> db.account.find()[3]

```
{         "_id" : ObjectId("600cc40bbd395a43e99748a3"),

        "userID" : 14,

        "userName" : [              "fb"         ],

         "password" : "abc@13",

        "email_ID" : "abc2@gmail.com",

        "followers" : 17,
```

```
        "status" : "Inactive"
}
```

5.

```
 > db.account.find().forEach(printjson)
```

```
{        "_id" : ObjectId("600cc37abd395a43e997489f"),        "userID" : 15,
"userName" : [                "git",                "linkedin",                "fb"        ],
"password" : "abc@123",        "email_ID" : "ab@gmail.com",        "followers" : 10,
     "status" : "Inactive" } {        "_id" : ObjectId("600cc3afbd395a43e99748a0"),
     "userID" : 5,        "userName" : [                "git",                "linkedin",
   "fb"        ],        "password" : "ac@123",        "email_ID" : "ac@gmail.com",
   "followers" : 1,        "status" : "active" } {        "_id" :
ObjectId("600cc40bbd395a43e99748a1"),        "userID" : 150,        "userName" : [
          "git",                "linkedin"        ],        "password" : "abc@23",
"email_ID" : "bc@gmail.com",        "followers" : 0,        "status" : "Inactive" } {
  "_id" : ObjectId("600cc40bbd395a43e99748a2"),        "userID" : 1,
"userName" : [                "git"        ],        "password" : "abc@23",        "email_ID"
: "abc1@gmail.com",        "followers" : 100,        "status" : "Inactive" } {
"_id" : ObjectId("600cc40bbd395a43e99748a3"),        "userID" : 14,
"userName" : [                "fb"        ],        "password" : "abc@13",
"email_ID" : "abc2@gmail.com",        "followers" : 17,        "status" : "Inactive" } {
     "_id" : ObjectId("600cc40bbd395a43e99748a4"),        "userID" : 55,
"userName" : [                "git",                "linkedin",                "fb"        ],
"password" : "abc@12",        "email_ID" : "ab1c@gmail.com",        "followers" :
107,        "status" : "active" } {        "_id" :
ObjectId("600cc40bbd395a43e99748a5"),        "userID" : 50,        "userName" : [
          "git",                "linkedin"        ],        "password" : "c@123",
"email_ID" : "a22bc@gmail.com",        "followers" : 190,        "status" : "active" }
{        "_id" : ObjectId("600cc40bbd395a43e99748a6"),        "userID" : 95,
"userName" : [                "linkedin"        ],        "password" : "ac@123",
"email_ID" : "abnbc@gmail.com",        "followers" : 210,        "status" :
"Inactive" } {        "_id" : ObjectId("600cc40bbd395a43e99748a7"),        "userID" :
65,        "userName" : [                "git",                "linkedin",                "fb"        ],
     "password" : "abc@23",        "email_ID" : "ab1155c@gmail.com",
"followers" : 7,        "status" : "Inactive" } {        "_id" :
ObjectId("600cc40bbd395a43e99748a8"),        "userID" : 115,        "userName" : [
          "git"        ],        "password" : "abc@1",        "email_ID" :
"a007bc@gmail.com",        "followers" : 9,        "status" : "Inactive" }
```

6.

```
 > var A = db.account;
```

```
> A.find({followers: {$gt:50}},{userName:1,_id:0})
```

```
{ "userName" : [ "git" ] }
```

{ "userName" : ["git", "linkedin", "fb"] }

{ "userName" : ["git", "linkedin"] }

{ "userName" : ["linkedin"] }

7.

> A.find({},{userName : 1, _id:0, email_ID : 1, followers : 1}).pretty().skip(5)

{   "userName" : ["git",   "linkedin",   "fb"
 ],

        "email_ID" : "ab1c@gmail.com",

        "followers" : 107

}

{   "userName" : ["git",   "linkedin"   ],

        "email_ID" : "a22bc@gmail.com",

        "followers" : 190

}

{   "userName" : ["linkedin"   ],

        "email_ID" : "abnbc@gmail.com",

         "followers" : 210

}

{   "userName" : ["git",   "linkedin",   "fb"   ],

        "email_ID" : "ab1155c@gmail.com",

        "followers" : 7

}

{   "userName" : ["git"   ],

        "email_ID" : "a007bc@gmail.com",

        "followers" : 9 }

8.

> A.find({$or : [{followers : {$lt : 10}}, {$and : [{status: "Inactive"}, {password : {$exists : false}}]}]} ,{userName: 1, _id:0}).pretty()

{ "userName" : ["git", "linkedin", "fb"] }
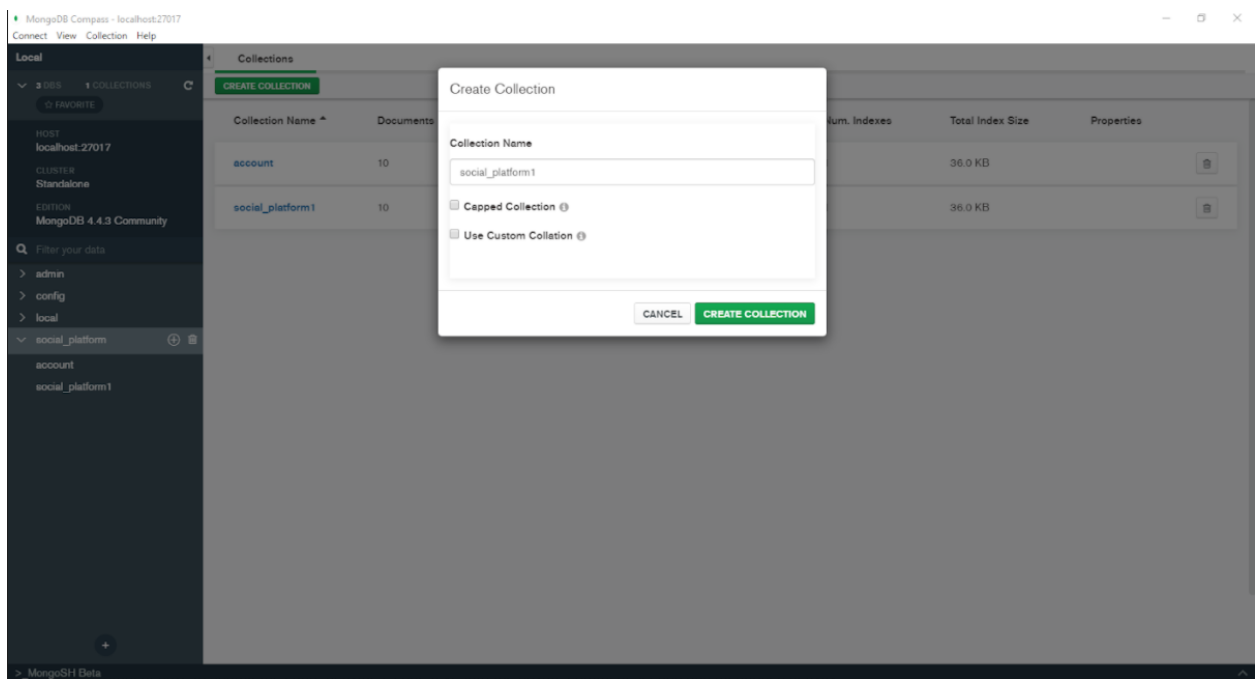
{ "userName" : ["git", "linkedin"] }
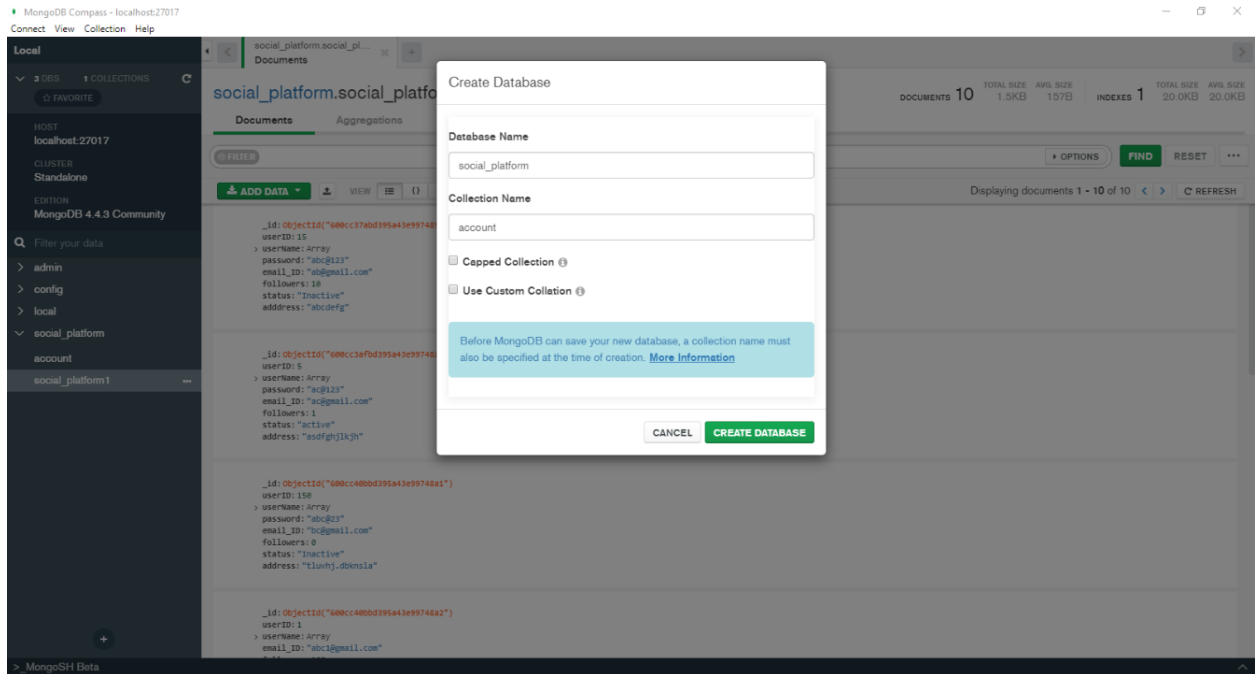
{ "userName" : ["git"] }

{ "userName" : ["git", "linkedin", "fb"] }

{ "userName" : ["git"] }

Screenshots :

1.

9.

10.

Address Field is added