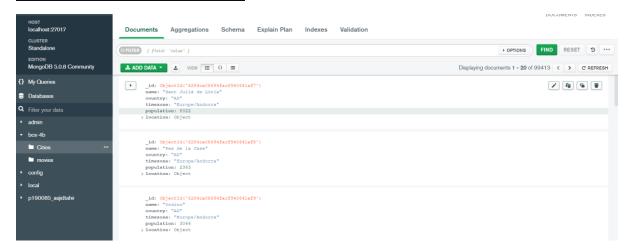
# ASJID TAHIR 19p-0085

## DATABASE SYSTEMS LAB

### LAB # 13:

```
to permanently disable
> show dbs
                   0.000GB
admin
                   0.007GB
bcs-4b
config
                   0.000GB
local
                   0.000GB
p190085_asjidtahir 0.000GB
> use bcs-4b
switched to db bcs-4b
> show tables
Cities
movies
```



### Exercises:

```
1): db.Cities.find({population:{$lt:30,$ne:0}}).limit(2).pretty()
```

```
2): db.Cities.count({timezone : "Asia/Jakarta"})
> db.Cities.count({timezone : "Asia/Jakarta"})
1430
>
```

```
3): db.Cities.find({country :
    "PK",timezone:"Asia/Karachi"}).sort({population:-1}).forEach(printjson)
```

#### Note:

It is going to print 423 docs.

```
db.cities.find({country : "PK",timezone:"Asia/Karachi"}).sort({population:-1}).forEach(printjson)
    "_id" : ObjectId("60c46d4a95da44e07b6918a1"),
    "name" : "Karachi",
    "country" : "PK",
    "timezone" : "Asia/Karachi",
    "population" : 11624219,
    "location" : {
        "longitude" : 24.9056,
            "latitude" : 67.0822
    }

    "_id" : ObjectId("60c46d4a95da44e07b691875"),
    "name" : "Lahore",
    "country" : "PK",
    "timezone" : "Asia/Karachi",
    "population" : 6310888,
    "location" : {
        "longitude" : 31.54972,
            "latitude" : 74.34361
    }

    "_id" : ObjectId("60c46d4a95da44e07b6918f2"),
```

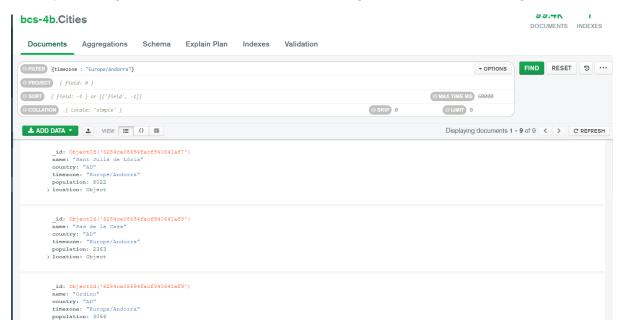
### 4):

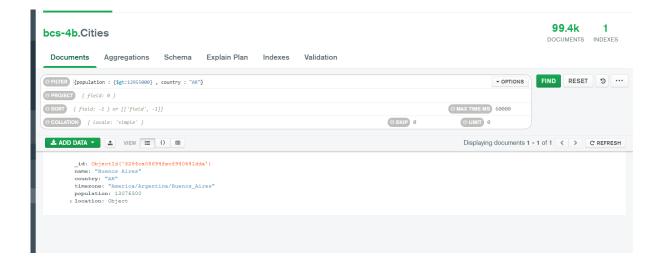
```
db.Cities.getIndexes()
db.Cities.createIndex({population:1})
db.Cities.dropIndex({population:1})
```

### MongoDB Compass Tasks:

### 5:

i) {timezone : "Europe/Andorra"}





# iii) Filter:

{"location.longitude":{\$eq:1.6}}

Project:

{location:1,population:1,\_id:0}

