NAME :: IBRAR BABAR

ROLL NO. :: P19-0104

SECTION :: 4A

DATABASE LAB (13)

LAB TASKS

C:\Program Files\MongoDB\Server\4.4\bin>mongoimport --db 19P0104_4A --collection cities --file G:\cities.jsonl

```
C:\Program Files\MongoDB\Server\4.4\bin>mongoimport --db 19P0104_4A --collection cities --file G:\cities.jsonl
2021-06-12T13:16:08.852+0500    connected to: mongodb://localhost/
2021-06-12T13:16:11.780+0500    99838 document(s) imported successfully. 0 document(s) failed to import.
```

EXERCISE#(1)

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

```
> db.cities.find({population:{$lt:30,$ne:0}}).limit(2).pretty()
{
        "_id" : ObjectId("60c46d4a95da44e07b68b799"),
        "name" : "Tanggul",
        "country" : "ID",
        "timezone" : "Asia/Jakarta",
        "population" : 3,
        "location" : {
                "latitude" : -8.1645,
                "longitude" : 113.4525
        }
}
{
        "_id" : ObjectId("60c46d4a95da44e07b68f52c"),
        "name" : "Ereencav",
        "country" : "MN",
        "timezone" : "Asia/Choibalsan",
        "population" : 23,
        "location" : {
                "longitude" : 49.8807,
                "latitude" : 115.72526
        }
}
```

EXERCISE#(2)

db.cities.count({timezone : "Asia/Jakarta"})

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

EXERCISE#(3)

db.cities.find({country : "PK",timezone:"Asia/Karachi"}).sort({population:-1}).forEach(printjson)
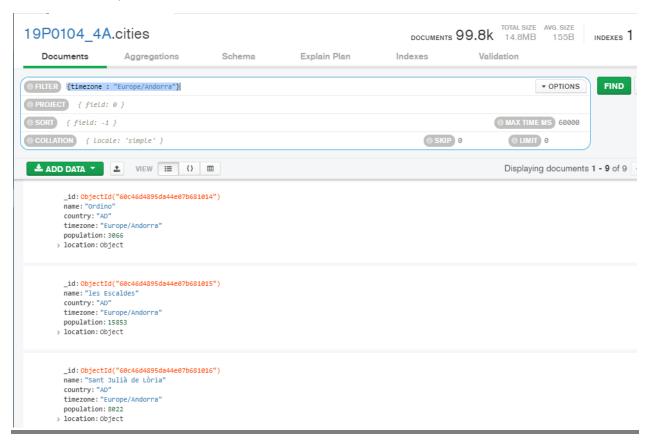
[It is going to print 423 documents]

```
> 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"),
```

EXERCISE#(4)

db.cities.getIndexes()

db.cities.createIndex({population:1})

db.cities.dropIndex({population:1})

```
> db.cities.getIndexes()
[ { "v" : 2, "key" : { "_id" : 1 }, "name" : "_id_" } ]
> db.cities.createIndex({population:1})
{
        "createdCollectionAutomatically" : false,
        "numIndexesBefore" : 1,
        "numIndexesAfter" : 2,
        "ok" : 1
}
> db.cities.dropIndex({population:1})
{ "nIndexesWas" : 2, "ok" : 1 }
>
```
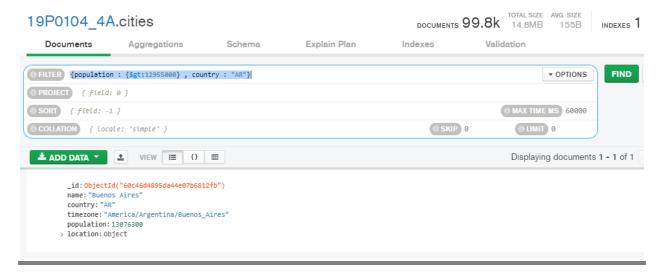
EXERCISE#5(1)

{timezone : "Europe/Andorra"}

EXERCISE#5(II)

{population : {$gt:12955000} , country : "AR"}

EXERCISE#5(III)

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

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