Name: Jawad Ahmed

Rollno: 20P-0165 Section: BCS-4A

1:Create a database named your rollno section (i.e. 18P0014 6B). Query => use 20P0165 4A

```
jawad> use 20P0165_4A
switched to db 20P0165_4A
20P0165_4A>
```

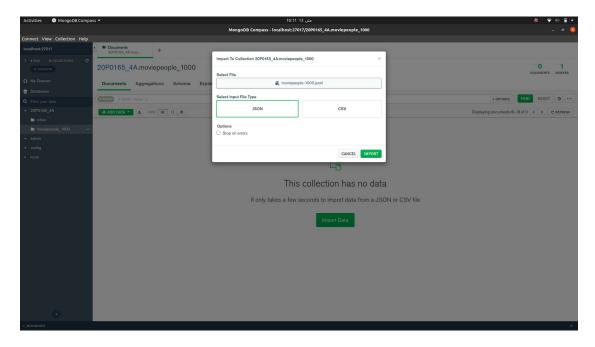
2) Create collections named cities and moviepeople_1000.

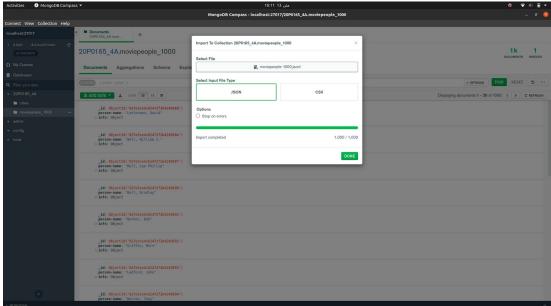
3) Import the documents cities.jsonl and moviepeople-1000.jsonl into the cities and moviepeople collection respectively by issuing the following command. (download the datasets from google class room in Datasets directory)

IMPORTING THROUGH COMMAND LINE

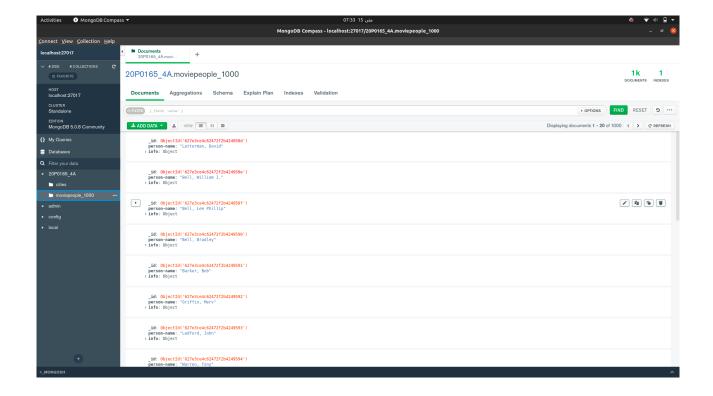
```
enstazao@enstazao-Victus-by-HP-Laptop-16-d0xxx:~$ mongoimport --db 20P0165_4A --
collection cities --file /home/enstazao/DATA_BASE_Lab/Lab12/cities.jsonl
2022-05-13T16:09:41.025+0500 connected to: mongodb://localhost/
2022-05-13T16:09:42.264+0500 99838 document(s) imported successfully. 0 document(s) failed to import.
enstazao@enstazao-Victus-by-HP-Laptop-16-d0xxx:~$
```

IMPORTING USING THE MONGODB COMPASS





AFTER IMPORTING THE DATA IN THE COLLECTION moviepeople_100:



4) In the mongo shell client, write queries for finding: (hint: use cities collection)

i. All those cities whose time zone is Africa/Harare.

```
20P0165_4A> db.cities.find( { timezone: 'Africa/Harare' } )
      _id: ObjectId("627e3c76c4dbbdceb0675fa0"),
    name: 'Zvishavane',
country: 'ZW',
timezone: 'Africa/Harare',
    population: 35896,
location: { latitude: -20.32674, longitude: 30.06648 }
     id: ObjectId("627e3c76c4dbbdceb0675fa2"),
     country:
    timezone:
    population: 29292,
location: { latitude: -18.52785, longitude: 32.12843 }
      _id: ObjectId("627e3c76c4dbbdceb0675fa3"),
     country:
    country: 'ZW',
timezone: 'ATrica/Harare',
population: 33197,
location: { latitude: -19.03333, longitude: 29.78333 }
     _id: ObjectId("627e3c76c4dbbdceb0675fa4"),
    country: 'ZW',
timezone: 'Africa/Harare',
    population: 2148,
location: { latitude: -20.48333, longitude: 27.81667 }
     _id: ObjectId("627e3c76c4dbbdceb0675fa5"),
    country: 'ZW',
timezone: 'Africa/Harare',
    population: 1957,
location: { latitude: -17.03333, longitude: 30.43333 }
```

ii. All those cities whose population is greater than 12985000.

```
20P0165_4A> db.cities.find({population: { $gt: 12985000 } } )
[
{
    _id: ObjectId("627e3c75c4dbbdceb065dce2"),
    name: 'Buenos Aires',
    country: 'AR',
    timezone: 'America/Argentina/Buenos_Aires',
    population: 13076300,
    location: { latitude: -34.61315, longitude: -58.37723 }
},
{
    _id: ObjectId("627e3c75c4dbbdceb06600c9"),
    name: 'Shanghai',
    country: 'CN',
    timezone: 'Asia/Shanghai',
    population: 14608512,
```

iii. A city whose longitude equals to -58.37723. Your query should return location and population fields only. (hint: use projection)

5) Write a query to update the population from 35000 to 55000 whose country is PK and a location latitude of 73.2122. (hint: use cities collection) QUERY:

```
db.cities.updateMany( { $and: [{ country: 'PK' }, { "location.latitude": 73.2122 }, { population: 35000 }] }, { $set: { population: 55000 } })
```

```
20P0165_4A> db.cities.updateMany( { Sand: [{ country: 'PK' }, { "location.latitude": 73.2122 }, { population: 35000 }] }, { $set: { population: 55000 } })
{
    acknowledged: true,
    insertedId: null,
    matchedCount: 1,
    modifiedCount: 1,
    upsertedCount: 0
}
20P0165_4A>
```

6) Write a query to delete the document whose timezone is Asia/Karachi and a country is PK. (hint: use cities collection)

By default the AND operator is used

7) Write a query for finding the document whose birthname name array contains ("Freeman, Crispin McDougal") as a value. (hint: use moviepeople collection)

```
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