(CL2005) Database Systems Lab
Lab 12 Task
MongoDB CRUD Operation

Submit the doc/txt file containing the query and its output.

1) Create a database named your rollno_section (i.e. 18P0014_6B).
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)
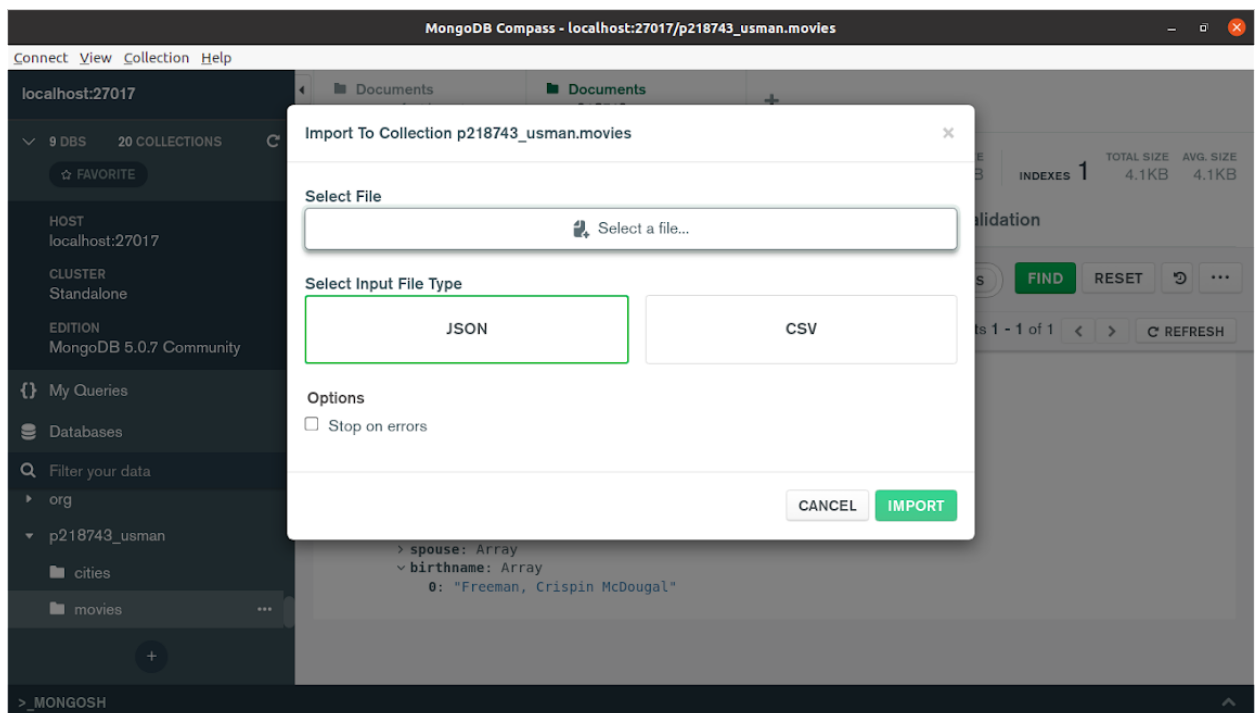
```
mongoimport --db dbName --collection collectionName
--file fileName.json
```


alternatively, you could import the collections using MongoDB Compass as well shown below.

After successfully importing these files you would be having the documents layout as shown.

```
>    _id: ObjectId("60b9239f1111a556b5030496")
     name: "Chitungwiza"
     country: "ZW"
     timezone: "Africa/Harare"
     population: 55000
   ∨ location: Object
        latitude: -18.01274
        longitude: 31.07555
```

Figure 1 Cities Document

```
>    _id: ObjectId("60b92394478b8f1978e44aab")
     person-name: "Freeman, Crispin"
   ∨ info: Object
       ∨ quotes: Array
           0: "On advice to aspiring voice-over actors: For myself, I'm in the favor ..."
       > trivia: Array
       ∨ minibiography: Array
           0: "Crispin is the oldest of three. He has a younger brother, Clark, and y..."
       ∨ birthnotes: Array
           0: "Chicago, Illinois, USA"
       ∨ birthdate: Array
           0: "9 February 1972"
       ∨ height: Array
           0: "6' 2""
       ∨ spouse: Array
           0: "'Izobel Carol' (qv) (11 August 2007 - present)"
       ∨ birthname: Array
           0: "Freeman, Crispin McDougal"
```

Movie People Document

4) In the mongo shell client, write queries for finding: *(use cities collection)*
   i.   All those cities whose time zone is Africa/Harare.
   ii.   All those cities whose population is greater than 12985000.
   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)*
6) Write a query to delete those documents whose timezone is Asia/Karachi and country is PK. *(use cities collection)*
7) Write a query for finding the document whose birthname name array contains ("Freeman, Crispin McDougal") as a value. *(use moviepeople collection)*