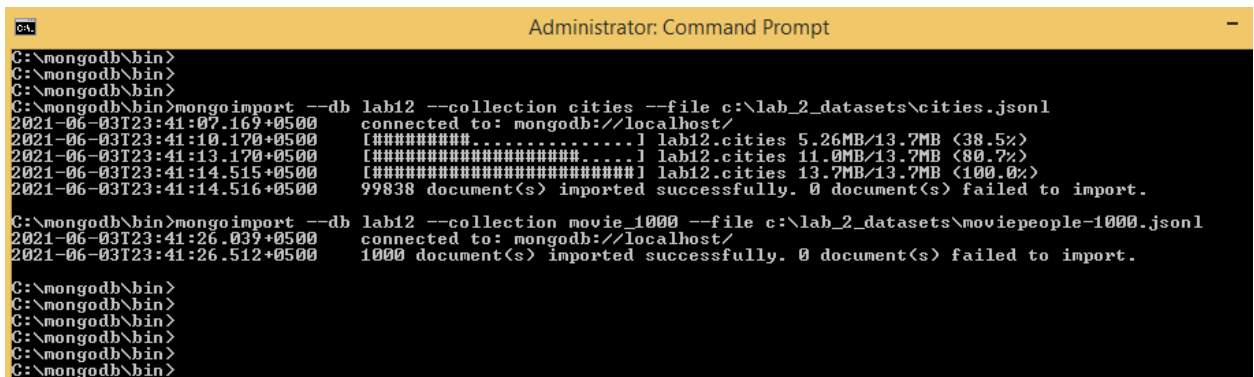# (CL-219) Database Systems Lab
Lab 12 MongoDB CRUD Operations

Exercises

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
```


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

Figure 1 Cities Document

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

Figure 2 Movie People Document

4) In the mongo shell client, write queries for finding: *(hint: 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 the document whose timezone is Asia/Karachi and a country is PK. *(hint: use cities collection)*

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