NAME:: IBRAR BABAR

ROLL NO. :: P19-0104

SECTION:: 4A

DATABASE LAB (12)

LAB TASKS

EXERCISE (1)

use 19P0104_4A

```
> use 19P0104_4A
switched to db 19P0104_4A
>
```

EXERCISE (2)

db.createCollection('cities')

db.createCollection('moviepeople_1000')

```
> db.createCollection('cities')
{ "ok" : 1 }
> db.createCollection('moviepeople_1000')
{ "ok" : 1 }
> 
> 
>
```

EXERCISE (3)

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 2021-06-05T15:11:05.401+0500 connected to: mongodb://localhost/ 2021-06-05T15:11:08.402+0500 [################################# 19P0104_4A.cities 11.9MB/13.7MB (87.0%) 2021-06-05T15:11:08.731+0500 [##################### 19P0104_4A.cities 13.7MB/13.7MB (100.0%) 2021-06-05T15:11:08.731+0500 99838 document(s) imported successfully. 0 document(s) failed to import. C:\Program Files\MongoDB\Server\4.4\bin>
```

```
C:\Program Files\MongoDB\Server\4.4\bin>mongoimport --db 19P0104_4A --collection moviepeople-1000 --file G:\moviepeople-1000.jsonl 2021-06-05T15:13:23.761+0500 connected to: mongodb://localhost/ 2021-06-05T15:13:24.506+0500 1000 document(s) imported successfully. 0 document(s) failed to import.
```

```
> use 19P0104_4A
switched to db 19P0104_4A
> show collections
cities
moviepeople_1000
>
```

EXERCISE (4(A))

db.cities.find({timezone: "Africa/Harare"}).pretty()

This query is going to show 65 entries of Feilds. I have attached only first 3 Fields.

```
db.cities.find({timezone:"Africa/Harare"}).pretty()
      " id" : ObjectId("60bb51806dcf67e72a4ba0bd"),
      "name" : "Zvishavane",
      "country" : "ZW",
      "timezone" : "Africa/Harare",
      "population" : 35896,
      "location" : {
              "latitude" : -20.32674,
              "longitude" : 30.06648
      "_id" : ObjectId("60bb51806dcf67e72a4ba0be"),
      "name" : "Victoria Falls",
      "country" : "ZW",
      "timezone" : "Africa/Harare",
      "population" : 35761,
      "location" : {
              "latitude" : -17.92353,
              "longitude" : 25.84299
      "_id" : ObjectId("60bb51806dcf67e72a4ba0bf"),
      "name" : "Shangani",
      "country" : "ZW",
      "timezone" : "Africa/Harare",
      "population" : 3835,
      "location" : {
              "latitude" : -19.78333,
              "longitude" : 29.36667
      }
```

EXERCISE (4(B))

db.cities.find({population:{\$gt:12985000}}).pretty()

EXERCISE (4(C))

db.cities.find({"location.longitude": {\$eq:-58.37723}},{location:1, population:1, id:0}).pretty()

EXERCISE (5)

(Before updating)

db.cities.find({country:"PK", "location.latitude":{\$eq:73.2122}}).pretty()

```
db.cities.find( {country:"PK" , "location.latitude":{$eq:73.2122}}).pretty()
         "_id" : ObjectId("60bb517f6dcf67e72a4b2449"),
         "name" : "Malakwal City",
"country" : "PK",
         "timezone" : "Asia/Karachi",
         "population" : 35000,
         "location" :
                  "longitude" : 32.55492,
                  "latitude" : 73.2122
db.cities.updateOne(
... {country: "PK", "location.latitude": {$eq:73.2122}, population: 35000},
... {
... $set: {population:55000}
... }
...)
  db.cities.updateOne(
    {country: "PK", "location.latitude": {$eq:73.2122}, population: 35000},
    $set: {population:55000}
```

(After updating)

db.cities.find({country:"PK", "location.latitude":{\$eq:73.2122}}).pretty()

acknowledged" : true, "matchedCount" : 1, "modifiedCount" : 1 }

EXERCISE (6)

db.cities.deleteOne({timezone:"Asia/Karachi",country:"PK"})

```
> db.cities.deleteOne({timezone:"Asia/Karachi",country:"PK"})
{ "acknowledged" : true, "deletedCount" : 1 }
>
```

EXERCISE (7)

db.moviepeople_1000.find({"info.birthname":["Freeman, Crispin McDougal"]}).pretty()

```
db.moviepeople_1000.find({"info.birthname":["Freeman, Crispin McDougal"]}).pretty()
                 "_id" : ObjectId("60bb51da79b12c72cf65cae3"),
"person-name" : "Freeman, Crispin",
you've got 13 Joan

[],
    "trivia": [
    "Said he was a little nervous about taking on the role of Zelgadis in Slayers because the character had already been voiced by someone else. Whe it came to reinterpretting the character, he said he thought that Zelgadis had more of an axe to grind.",
    "Fluent in English and Spanish.",
    "Is a big fan of authors 'William Shakespeare (I)' (qv), 'J.R.R. Tolkien' (qv), 'Joseph Campbell (III)' (qv), 'Marshall McLuhan' (qv), and 'Will
"Is a big fan of authors 'William Snakespeare (1) (47), Shahilan (1) (47).",

"Is a big fan of anime creators 'Hayao Miyazaki' (47) and 'Osamu Tezuka (I)' (47).",

"Frequently does voice overs for various union and non-union voice production companies for some video games and mostly animes.",

"Has a younger brother, 'Clark Freeman' (47), and a younger sister, 'Cassidy Freeman' (47).",

"Graduated from Williams College with a B.A. in theater & a minor in computer science",

"Graduated from Columbia University with an M.F.A. in acting",

"Is one of the only English-speaking voice actors to voice the same character of all Xenosaga video game series. Crispin was the only voice actor to provide the English voice of Albedo and Gaignun Kukai of the series.",

"On August 11, 2007, he married 'Izobel Carol' (47) on The Big Island of Hawaii.",

"He and Veronica Taylor both came to the anime Slayers series as replacements - she replaced Joani Baker as Amelia and he replaced Daniel Cronin as Zalgadis."
 as relgadis.

[],

"minibiography": [

"Crispin is the oldest of three. He has a younger brother, Clark, and youngest sister, Cassidy. All three attended the Latin School of Chicago,
where Crispin graduated in a class of 60 in 1990. Crispin had a Mac in 1985. To this day he is still an avid computer geek. He played no official team sports in school,
but participated in ad hoc football played in Lincoln Park. Crispin was an active participant in many school plays both on and behind stage. He's also a genuinely nice
and humble person."
],
"minibiography" : [
"Crispin is the oldest of three. He has a younger brother, Clark, and youngest sister, Cassidy. All three attended the Latin School of Chicago,
where Crispin graduated in a class of 60 in 1990. Crispin had a Mac in 1985. To this day he is still an avid computer geek. He played no official team sports in school,
 but participated in ad hoc football played in Lincoln Park. Crispin was an active participant in many school plays both on and behind stage. He's also a genuinely nice
 and humble person."
                                  ],
"birthnotes" : [
                                                     "Chicago, Illinois, USA"
                                  ],
"birthdate" : [
                                                     "9 February 1972"
                                  ],
"spouse" : [
"'Izobel Carol' (qv) (11 August 2007 - present)"
                                  ],
"birthname" : [
                                                    "Freeman, Crispin McDougal"
```