## NO SQL LAB - 1

## **MONGODB QUERIES**

NAME: SREENIDHI GANACHARI

**REGISTRATION NUMBER: 19BCE7230** 

## MONGODB INSTALLATION -

Step 1 — Download the MongoDB MSI Installer Package

Step 2 — Install MongoDB with the Installation Wizard

- A. Make sure you are logged in as a user with Admin privileges. Then navigate to your downloads folder and double click on the .msi package you just downloaded. This will launch the installation wizard.
- B. Click Next to start installation
- C. Accept the licence agreement then click Next.
- D. Select the Complete setup.
- E. Select "Run service as Network Service user" and make a note of the data directory, we'll need this later.
- F. Click on Next and complete installation

**QUEIRES** -

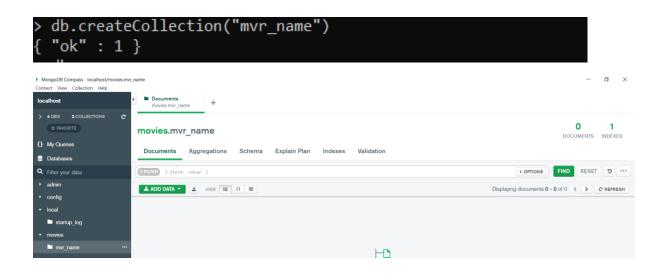
1.[1mark] Create a database called 'movies' and write a MongoDB query to select database as 'movies'.

```
> use movies
switched to db movies
> db
movies
```

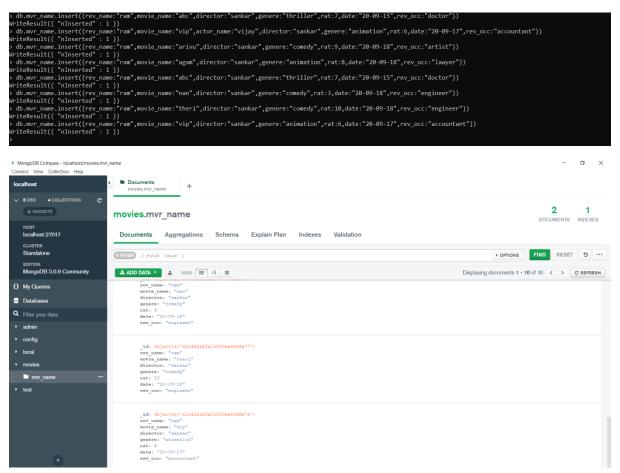
2. [1mark] Write a MongoDB query to display databases.

```
> show dbs
admin 0.000GB
config 0.000GB
local 0.000GB
movies 0.000GB
>
```

3.[1mark] Create a collection called 'mvr\_name' (use capping and not capping)



4. Add 10 movies details to the collection named"mvr\_name". Each document consists of following properties asReviewer\_name,movie\_name,genre (Action,Crime,Horror, Comedy, Animation) as array, director, rating(out of 10),timestamp(date and year release), reviewer\_occupation.



5.[1mark] Write a MongoDB query to display single document in a database and all the documents in a database and Use pretty()for display the results.

6.[1mark] find the highest and lowest rating movie and update the movie rating as maximum-minimum and minimum to Maximum.

7.[1 mark] find the total number of movies rated by user belonging to specific occupation.

```
db.mvr_name.aggregate(
    $group:{_id:"$rev_occ",Total:{$sum:1}}}
  _id" : "engineer", "Total" : 4 }
_id" : "doctor", "Total" : 2 }
_id" : "lawyer", "Total" : 1 }
  _id" : "accountant", "Total" : 2 }
  _id" : "artist", "Total" : 1 }
```

8.[1 mark] find the average rating by reviewer and movie.

```
C:\Program Files\MongoDB\Server\5.0\bin\mongo.exe
```

```
...mvr_name.
_id" · "
db.mvr_name.aggregate([{$unwind: "$movie_name"}, {$group: {_id: "$movie_name", ratingAvg: {$avg: "$rat"}}}])
"_id": "arivu", "ratingAvg": 9 }
"_id": "agam", "ratingAvg": 8 }
"_id": "theri", "ratingAvg": 10 }
"_id": "vip", "ratingAvg": 6 }
"_id": "nan", "ratingAvg": 3 }
"_id": "abc", "ratingAvg": 7 }
"_id": "abc", "ratingAvg": 10 }
```

```
db.mvr_name.aggregate([{$unwind: "$rev_name"}, {$group: {_id: "$rev_name", ratingAvg: {$avg: "$rat"}}}])
"_id" : "ram", "ratingAvg" : 7.6 }
```

9. [1 mark] find the movie name filmed between 2015 and 2017.

```
db.mvr_name.find( { date: { $gt: new Date('2015-01-01'), $1t: new Date('2017-01-01') } } )
db.mvr_name.find( { date: { $gt: new Date('2015-01-01'), $1t: new Date('2017-01-01') } } );
```

10.[1 mark] find the 3<sup>rd</sup> highest rated movie. [Hint: use sort, limit, skip]

```
b.mvr_name.find({}).sort({"rat":-1}}.skip(2).limit(1)
_id" : ObjectId("62c4433068ea000b460919b4"), "rev_name" : "ram", "movie_name" : "ABC", "director" : "sankar", "genere" : "comedy", "rat" : 10, "date" : "20-09-18", "rev_occ" : "engineer" }
```