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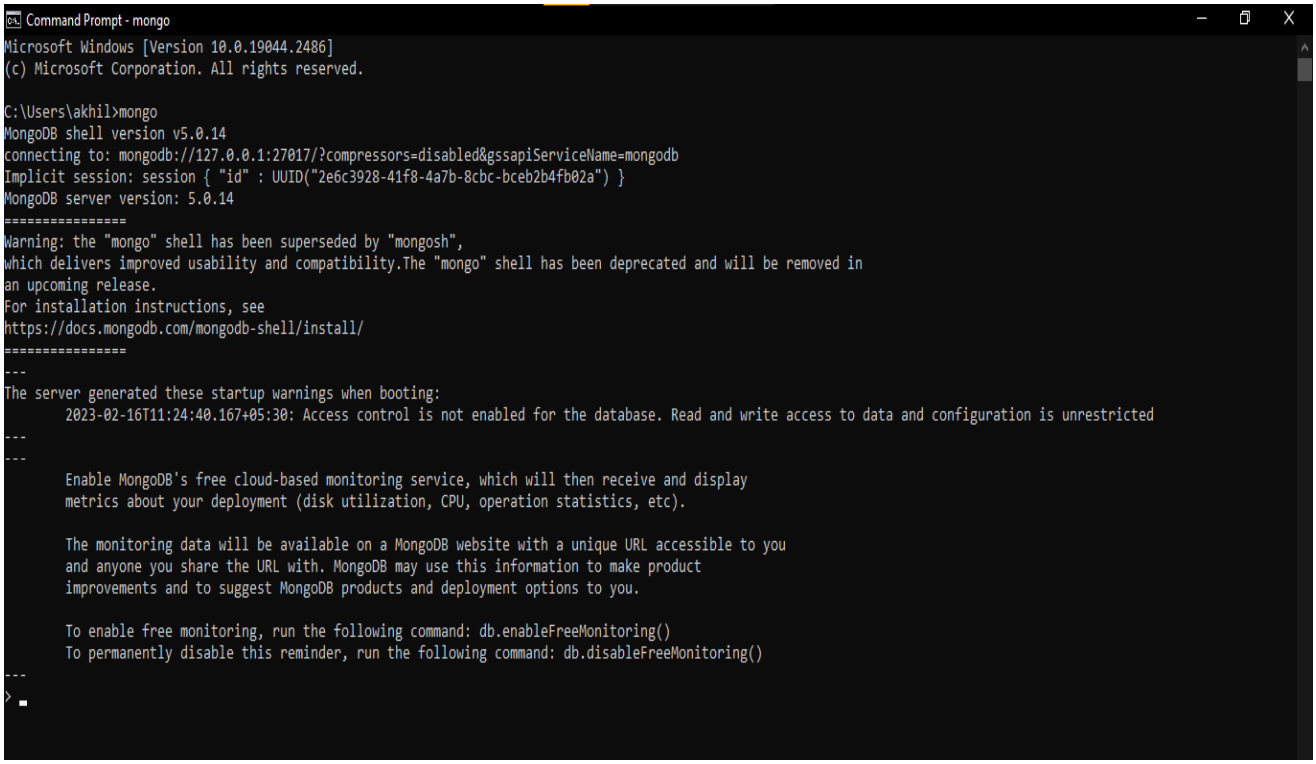
Topic: Mongodb Commands

Aim: Write Mongodb Commands

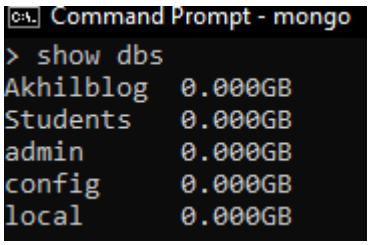
Introduction: MongoDb, the most popular NoSQL database, is an open-source document-oriented database. The term 'NoSQL' means 'non-relational'. It means that MongoDB isn't based on the table-like relational database structure but provides an altogether different mechanism for storage and retrieval of data .This format of storage is called BSON (similar to JSON format).

All MongoDb commands and Output :

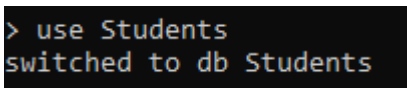
1. To Run the Mongo.



2. View all databases.



3. Creating a new or switch databases.



Course: Msc CS 1 **Subject:** Big Data Analysis

4. View current Database.

```
> db
Students
```

5. Delete Database.

```
> db.dropDatabase()
{ "ok" : 1 }
> show dbs
Students  0.000GB
admin     0.000GB
config    0.000GB
local     0.000GB
```

6. Show Collections.

```
> show collections
employ_info
stud_info
```

7. Creating a collection named ‘stud_data’.

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

8. Drop or Deleting a collection named ‘stud_data’.

```
> db.stud_data.drop()
true
```

9. Show all Rows in a Collection.

```
> db.stud_info.find()
{ "_id" : ObjectId("63ea3f6e42df8bf9363fe06e"), "stud_id" : 1, "stud_name" : "Akhil", "addres" : "Sakinaka" }
{ "_id" : ObjectId("63ea3f8c42df8bf9363fe06f"), "stud_id" : 2, "stud_name" : "Fs", "addres" : "Asalpha" }
{ "_id" : ObjectId("63ee5072119c1b9667fdff62"), "stud-id" : 3, "stud_name" : "Tasneem", "address" : "kurla" }
{ "_id" : ObjectId("63ee5093119c1b9667fdff63"), "stud-id" : 4, "stud_name" : "Prajakta", "address" : "ghatkopar" }
```

10. Show all Rows in a Collection(Prettified).

```
> db.stud_info.find().pretty()
{
        "_id" : ObjectId("63ea3f6e42df8bf9363fe06e"),
        "stud_id" : 1,
        "stud_name" : "Akhil",
        "addres" : "Sakinaka"
}
{
        "_id" : ObjectId("63ea3f8c42df8bf9363fe06f"),
        "stud_id" : 2,
        "stud_name" : "Fs",
        "addres" : "Asalpha"
}
{
        "_id" : ObjectId("63ee5072119c1b9667fdff62"),
        "stud-id" : 3,
        "stud_name" : "Tasneem",
        "address" : "kurla"
}
{
        "_id" : ObjectId("63ee5093119c1b9667fdff63"),
        "stud-id" : 4,
        "stud_name" : "Prajakta",
        "address" : "ghatkopar"
}
```

11. Insert a Row.

```
> db.stud_info.insert({
... 'stud_id':5,
... 'stud_name':'Adi',
... 'address':'Sion'
... })
WriteResult({ "nInserted" : 1 })
```

12. Mongodb Rename Operator.

```
> db.stud_info.update({stud_name:'Fs'}, {$rename:{ address:'kherani' }})
WriteResult({ "nMatched" : 1, "nUpserted" : 0, "nModified" : 1 })
```

13. Deleting Row.

```
> db.stud_info.remove({stud_name:'Fs'})
WriteResult({ "nRemoved" : 1 })
```

14. Count the number of rows in the output.

```
> db.stud_info.find().count()
4
```

15. Search in a MongoDb Database.

```
> db.stud_info.find({address:'Sakinaka'})
{ "_id" : ObjectId("63ea3f6e42df8bf9363fe06e"), "stud_id" : 1, "stud_name" : "Akhil", "address" : "Sakinaka" }
```