

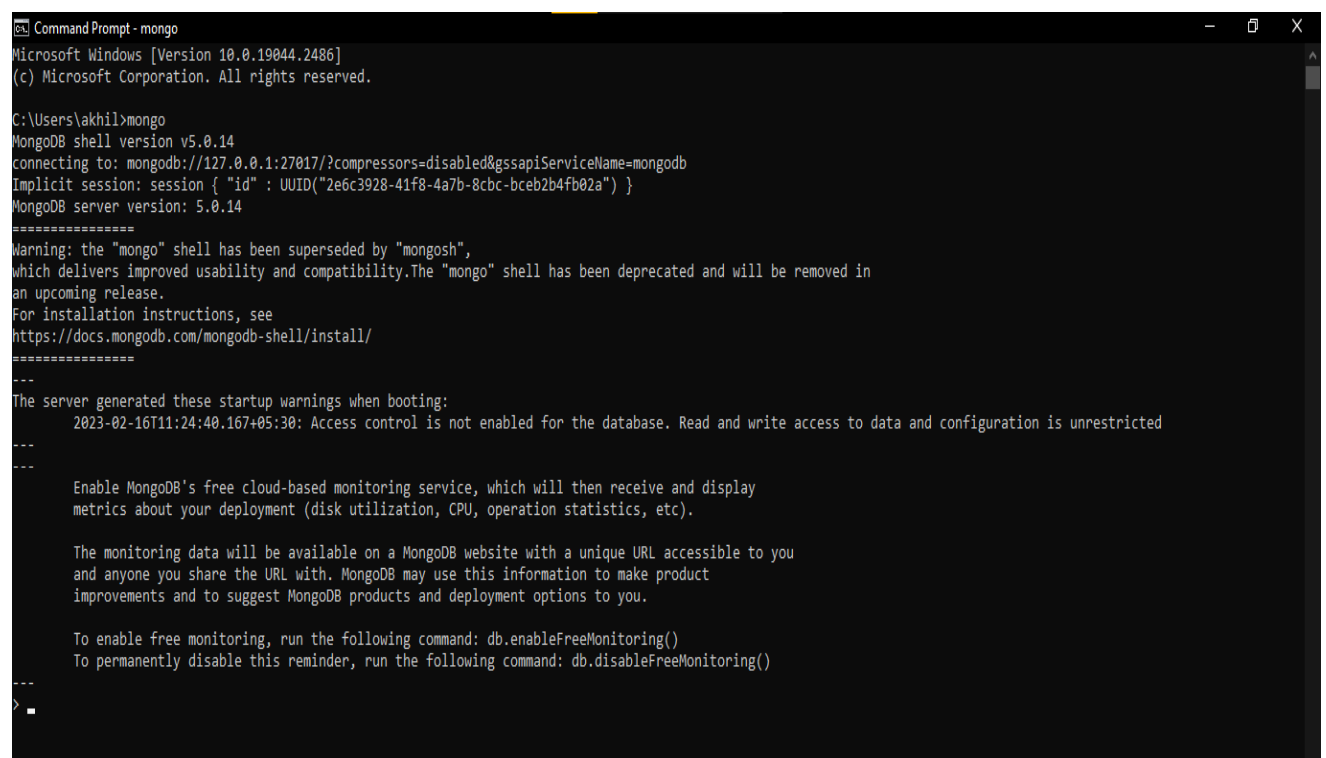
## Topic: MongoDB Commands

**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.



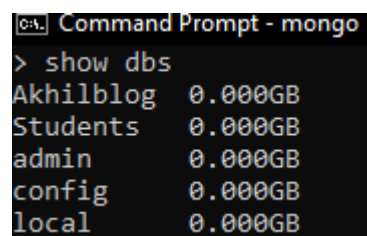
```
Command Prompt - mongo
Microsoft Windows [Version 10.0.19044.2486]
(c) Microsoft Corporation. All rights reserved.

C:\Users\akhil>mongo
MongoDB shell version v5.0.14
connecting to: mongodb://127.0.0.1:27017/?compressors=disabled&gssapiServiceName=mongodb
Implicit session: session { "id" : UUID("2e6c3928-41f8-4a7b-8cbc-bceb2b4fb02a") }
MongoDB server version: 5.0.14
=====
Warning: the "mongo" shell has been superseded by "mongosh",
which delivers improved usability and compatibility. The "mongo" shell has been deprecated and will be removed in
an upcoming release.
For installation instructions, see
https://docs.mongodb.com/mongodb-shell/install/
=====
---
The server generated these startup warnings when booting:
  2023-02-16T11:24:40.167+05:30: Access control is not enabled for the database. Read and write access to data and configuration is unrestricted
---
  Enable MongoDB's free cloud-based monitoring service, which will then receive and display
  metrics about your deployment (disk utilization, CPU, operation statistics, etc).

  The monitoring data will be available on a MongoDB website with a unique URL accessible to you
  and anyone you share the URL with. MongoDB may use this information to make product
  improvements and to suggest MongoDB products and deployment options to you.

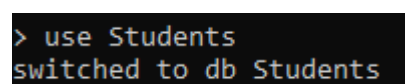
  To enable free monitoring, run the following command: db.enableFreeMonitoring()
  To permanently disable this reminder, run the following command: db.disableFreeMonitoring()
---
> .
```

#### 2. View all databases.



```
Command Prompt - mongo
> show dbs
Akhilblog  0.000GB
Students   0.000GB
admin      0.000GB
config     0.000GB
local      0.000GB
```

#### 3. Creating a new or switch databases.



```
> use Students
switched to db Students
```

## 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", "address" : "Sakinaka" }
{ "_id" : ObjectId("63ea3f8c42df8bf9363fe06f"), "stud_id" : 2, "stud_name" : "Fs", "address" : "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",
  "address" : "Sakinaka"
}
{
  "_id" : ObjectId("63ea3f8c42df8bf9363fe06f"),
  "stud_id" : 2,
  "stud_name" : "Fs",
  "address" : "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. Mongoddb 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" }
```