

1. **Install MongoDB database server**
2. **Create a directory/folder to store MongoDB datafiles**
3. **Set necessary path environment variable**
4. **Startup MongoDB database**
5. **Connect to MongoDB database through the MongoDB shell command line interface**

```
C:\Users\HP>mongosh
"mongodb+srv://cluster0.ojoqb.mongodb.net/myFirstDatabase"
--apiVersion 1 --username Darshan
Enter password: *****
Current Mongosh Log ID: 625fea55d68c0635dd5f4fd7
Connecting to:
mongodb+srv://cluster0.ojoqb.mongodb.net/myFirstDatabase?appName
=mongosh+1.3.1
Using MongoDB:          5.0.7 (API Version 1)
Using Mongosh:          1.3.1
```

For mongosh info see: <https://docs.mongodb.com/mongodb-shell/>

Warning: Found ~/.mongorc.js, but not ~/.mongoshrc.js.
~/.mongorc.js will not be loaded.

You may want to copy or rename ~/.mongorc.js to
~/.mongoshrc.js.

```
Atlas atlas-ra06xx-shard-0 [primary] myFirstDatabase>
```

6. View list of available databases

```
Atlas atlas-ra06xx-shard-0 [primary] myFirstDatabase> show dbs
dbda_2022  49.2 kB
admin      340 kB
local      5.86 GB
Atlas atlas-ra06xx-shard-0 [primary] myFirstDatabase>
```

7. Create a new database named CDAC and connect to it

```
Atlas atlas-ra06xx-shard-0 [primary] myFirstDatabase> use CDAC
switched to db CDAC
Atlas atlas-ra06xx-shard-0 [primary] CDAC> db
CDAC
```

8. View list of available collections in CDAC database

```
Atlas atlas-ra06xx-shard-0 [primary] CDAC> show collections
```

```
Atlas atlas-ra06xx-shard-0 [primary] CDAC>
```

9. Create a new collection by the name of LIBRARY

```
Atlas atlas-ra06xx-shard-0 [primary] CDAC>
```

```
db.createCollection("LIBRARY");  
{ ok: 1 }
```

10. Insert the following document in the LIBRARY collection:- title:'MongoDB programming', author:'Sameer', likes:100

```
Atlas atlas-ra06xx-shard-0 [primary] CDAC>
```

```
db.createCollection("LIBRARY");  
{ ok: 1 }
```

```
Atlas atlas-ra06xx-shard-0 [primary] CDAC>
```

```
db.LIBRARY.insert({title:"MongoDB  
programming",author:"Sameer",likes:100})
```

```
DeprecationWarning: Collection.insert() is deprecated. Use  
insertOne, insertMany, or bulkWrite.
```

```
{  
  acknowledged: true,  
  insertedIds: { '0': ObjectId("625ff0970e86fb225d3a95e4") }  
}
```

11. View the recently inserted document and note the _id field

```
Atlas atlas-ra06xx-shard-0 [primary] CDAC> show collections
```

```
LIBRARY
```

```
Atlas atlas-ra06xx-shard-0 [primary] CDAC> db.LIBRARY.find()
```

```
[  
  {  
    _id: ObjectId("625ff0970e86fb225d3a95e4"),  
    title: 'MongoDB programming',  
    author: 'Sameer',  
    likes: 100  
  }  
]
```

12. Insert another document in the LIBRARY collection as follows:-

title:'MySQL programming', authors:['Jack','Jill'], likes:200

Atlas atlas-ra06xx-shard-0 [primary] CDAC>

```
db.LIBRARY.insertOne({title:"MySQL
programming",author:["Jack","Jill"] ,likes:200})
{
  acknowledged: true,
  insertedId: ObjectId("625ff2d40e86fb225d3a95e5")
}
```

13. View the inserted documents

Atlas atlas-ra06xx-shard-0 [primary] CDAC> db.LIBRARY.find()

```
[
  {
    _id: ObjectId("625ff0970e86fb225d3a95e4"),
    title: 'MongoDB programming',
    author: 'Sameer',
    likes: 100
  },
  {
    _id: ObjectId("625ff2d40e86fb225d3a95e5"),
    title: 'MySQL programming',
    author: [ 'Jack', 'Jill' ],
    likes: 200
  }
]
```

14. View only the first inserted document

Atlas atlas-ra06xx-shard-0 [primary] CDAC>

```
db.LIBRARY.find({author:"Sameer"})
[
  {
    _id: ObjectId("625ff0970e86fb225d3a95e4"),
    title: 'MongoDB programming',
    author: 'Sameer',
```

```
    likes: 100
  }
]
```

15. View the documents using the pretty() method
Atlas atlas-ra06xx-shard-0 [primary] CDAC>

```
db.LIBRARY.find().pretty()
[
  {
    _id: ObjectId("625ff0970e86fb225d3a95e4"),
    title: 'MongoDB programming',
    author: 'Sameer',
    likes: 100
  },
  {
    _id: ObjectId("625ff2d40e86fb225d3a95e5"),
    title: 'MySQL programming',
    author: [ 'Jack', 'Jill' ],
    likes: 200
  }
]
```

16. Update the document where author name = Sameer and change it to Sameer Dehadrai

17. Delete all documents that have 100 likes

```
Atlas atlas-ra06xx-shard-0 [primary] CDAC>
db.LIBRARY.deleteMany({likes:100})
{ acknowledged: true, deletedCount: 1 }
```

18. Drop the LIBRARY collection

```
Atlas atlas-ra06xx-shard-0 [primary] CDAC> db.LIBRARY.drop()
true
Atlas atlas-ra06xx-shard-0 [primary] CDAC> show dbs
dbda_2022      41 kB
admin          340 kB
local         5.86 GB
```

19. Drop the CDAC database

```
Atlas atlas-ra06xx-shard-0 [primary] CDAC> db.CDAC.drop()  
false
```

```
Atlas atlas-ra06xx-shard-0 [primary] CDAC> show dbs
```

dbda_2022	41 kB
admin	340 kB
local	5.86 GB

20. Exit from MongoDB shell

21. Stop MongoDB server