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1. Install MongoDB database server

done

2. Create a directory/folder to store MongoDB datafiles

done

3. Set necessary path environment variable

done

4. Startup MongoDB database

```
Microsoft Windows [Version 10.0.19045.5371]
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C:\Users\ASUS>mongosh
Current Mongosh Log ID: 67cebc879c8f3bbf73c73bf7
Connecting to:      mongodb://127.0.0.1:27017/?directConnection=true&serverSelectionTimeoutMS=2000&appName=mongosh+2.3.1
Using MongoDB:      7.0.14
Using Mongosh:      2.3.1
mongosh 2.4.2 is available for download: https://www.mongodb.com/try/download/shell

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

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  The server generated these startup warnings when booting
  2025-03-07T15:14:12.397+05:30: Access control is not enabled for the database. Read and write access to data and configuration is unrestricted
  -----
```

5. Connect to MongoDB database through the MongoDB shell command line interface

Done

6. View list of available databases

```
test> show databases;
SunbeamDBT  72.00 KiB
admin       40.00 KiB
config      72.00 KiB
local       40.00 KiB
sunbeam     8.00 KiB
test> _
```

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

```
test> use cdac
switched to db cdac
cdac>
```

8. View list of available collections in CDAC database

```
cdac> show collections
cdac>
```

9. Create a new collection by the name of LIBRARY 10. Insert the following document in the LIBRARY collection:- title:'MongoDB programming', author:'Sameer', likes:100

```
cdac> db.createCollection("LIBRARY");
{ ok: 1 }
cdac> db.LIBRARY.insertOne({ title: "MongoDB programming", author: "Sameer", likes: 100 });
{
  acknowledged: true,
  insertedId: ObjectId('67cebee89c8f3bbf73c73bf8')
}
```

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

```
cdac> db.LIBRARY.find();
[
  {
    _id: ObjectId('67cebee89c8f3bbf73c73bf8'),
    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

```
cdac> db.library.insertOne({title: 'MySQL programming', authors: ['Jack','Jill'], likes: 200})
{
  acknowledged: true,
  insertedId: ObjectId('67cebff69c8f3bbf73c73bf9')
}
```

13. View the inserted documents

```
cdac> db.library.find()
[
  {
    _id: ObjectId('67cebff69c8f3bbf73c73bf9'),
    title: 'MySQL programming',
    authors: [ 'Jack', 'Jill' ],
    likes: 200
  }
]
```

14. View only the first inserted document

```
cdac> db.library.findOne()
{
  _id: ObjectId('67cebff69c8f3bbf73c73bf9'),
  title: 'MySQL programming',
  authors: [ 'Jack', 'Jill' ],
  likes: 200
}
```

15. View the documents using the pretty() method

```
cdac> db.LIBRARY.find().pretty();
[
  {
    _id: ObjectId('67cebee89c8f3bbf73c73bf8'),
    title: 'MongoDB programming',
    author: 'Sameer',
    likes: 100
  }
]
cdac> _
```

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

```
cdac> db.library.updateOne({author: 'Sameer'}, {$set: {author: 'Sameer Dehadrai'}})
{
  acknowledged: true,
  insertedId: null,
  matchedCount: 0,
  modifiedCount: 0,
  upsertedCount: 0
}
```

17. Delete all documents that have 100 likes

```
cdac> db.library.deleteOne({likes: 100})
{ acknowledged: true, deletedCount: 0 }
```

18. Drop the LIBRARY collection

```
cdac> db.library.drop()  
true
```

19. Drop the CDAC database

```
cdac> use CDAC;  
switched to db CDAC  
CDAC> db.dropDatabase();  
{ ok: 1, dropped: 'CDAC' }  
CDAC> _
```

20. Exit from MongoDB shell

```
CDAC> exit;
```