

# MONGODB ASSIGNMENT

## Screenshot 1

```
madhurgupta@Madhurs-MacBook-Air ~ % brew tap mongodb/brew
==> Tapping mongodb/brew
Cloning into '/opt/homebrew/Library/Taps/mongodb/homebrew-brew'...
remote: Enumerating objects: 1256, done.
remote: Counting objects: 100% (541/541), done.
remote: Compressing objects: 100% (185/185), done.
remote: Total 1256 (delta 412), reused 441 (delta 355), pack-reused 715
Receiving objects: 100% (1256/1256), 273.16 KiB | 4.48 MiB/s, done.
Resolving deltas: 100% (707/707), done.
Tapped 17 formulae (36 files, 358.6KB).
madhurgupta@Madhurs-MacBook-Air ~ % brew update
Installing from the API is now the default behaviour!
You can save space and time by running:
  brew untap homebrew/core
Already up-to-date.
madhurgupta@Madhurs-MacBook-Air ~ % brew install mongodb-community@7.0
==> Fetching dependencies for mongodb/brew/mongodb-community: mongodb/brew/mongodb-database-tools, c-ares, libuv, node and mongosh
==> Fetching mongodb/brew/mongodb-database-tools
==> Downloading https://fastdl.mongodb.org/tools/db/mongodb-database-tools-macos-arm64-100.8.0.zip
##### 100.0%
==> Fetching c-ares
==> Downloading https://ghcr.io/v2/homebrew/core/c-ares/manifests/1.19.1
##### 100.0%
==> Downloading https://ghcr.io/v2/homebrew/core/c-ares/blobs/sha256:ba35cc0962beaea7ae345ee1818297c40d5653649e563dc9493b93924b87ae41
##### 100.0%
==> Fetching libuv
==> Downloading https://ghcr.io/v2/homebrew/core/libuv/manifests/1.46.0
##### 100.0%
==> Downloading https://ghcr.io/v2/homebrew/core/libuv/blobs/sha256:8c3beb4d11ed0d45cf0b7e07d280ff815eab9f9c138eec90a2f824168aed039e
##### 100.0%
==> Fetching node
==> Downloading https://ghcr.io/v2/homebrew/core/node/manifests/20.7.0
##### 100.0%
==> Downloading https://ghcr.io/v2/homebrew/core/node/blobs/sha256:a278eb1ace9cc5b780a96fc3a3dc5bd7625ec1af61962b4842c702b2260c9aba
##### 100.0%
==> Fetching mongosh
```

## Screenshot 2

```
~ -- mongosh mongodb://127.0.0.1:27017/?directConnection=true&serverSelectionTimeoutMS=2000 -- -zsh
madhurgupta@Madhurs-MacBook-Air ~ % brew --prefix
/opt/homebrew
madhurgupta@Madhurs-MacBook-Air ~ % brew services start mongodb-community@7.0
==> Successfully started 'mongodb-community' (label: homebrew.mxcl.mongodb-community)
madhurgupta@Madhurs-MacBook-Air ~ % mongosh
Current Mongosh Log ID: 650c3591451d6b1b4174c5be
Connecting to:      mongodb://127.0.0.1:27017/?directConnection=true&serverSelectionTimeoutMS=2000&appName=mongosh+2.0.1
Using MongoDB:      7.0.0
Using Mongosh:      2.0.1
```

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

To help improve our products, anonymous usage data is collected and sent to MongoDB periodically (<https://www.mongodb.com/legal/privacy-policy>). You can opt-out by running the `disableTelemetry()` command.

```
-----
The server generated these startup warnings when booting
| 2023-09-21T17:46:36.869+05:30: Access control is not enabled for the database. Read and write access to data and configuration is unrestricted
-----

test> db.help
|
| Database Class:
|
|   getMongo           Returns the current database connection
|   getName            Returns the name of the DB
|   getCollectionNames Returns an array containing the names of all collections in the current database.
|   getCollectionInfos Returns an array of documents with collection information, i.e. collection name and options, for the current database.
|   runCommand         Runs an arbitrary command on the database.
|   adminCommand       Runs an arbitrary command against the admin database.
|   aggregate          Runs a specified admin/diagnostic pipeline which does not require an underlying collection.
|   getSiblingDB       Returns another database without modifying the db variable in the shell environment.
|   getCollection      Returns a collection or a view object that is functionally equivalent to using the db.<collectionName>.
|   dropDatabase       Removes the current database, deleting the associated data files.
|   createUser         Creates a new user for the database on which the method is run. db.createUser() returns a duplicate user error if the user already exists on the database.
|   updateUser         Updates the user's profile on the database on which you run the method. An update to a field completely replaces the previous field's values. This includes updates to the user's roles array.
|   changeUserPassword Updates a user's password. Run the method in the database where the user is defined, i.e. the database you created the user.
|   logout             Ends the current authentication session. This function has no effect if the current session is not authenticated.
|   dropUser           Removes the user from the current database.
```

### Screenshot 3

```
test> show dbs;
admin    40.00 KiB
config  60.00 KiB
local    40.00 KiB
test> use CDAC
switched to db CDAC
CDAC> db
[CDAC
CDAC> show collections;

CDAC> db.createCollection("Library");
{ ok: 1 }
```

## Screenshot 4

```
CDAC> show collections
Library
CDAC> db.library.insert({title:'MongoDB Programming',author:'Madhur',likes:100})
DeprecationWarning: Collection.insert() is deprecated. Use insertOne, insertMany, or bulkWrite.
{
  acknowledged: true,
  insertedIds: { '0': ObjectId("650c3ac9451d6b1b4174c5bf") }
}
CDAC> db.library.find()
[
  {
    _id: ObjectId("650c3ac9451d6b1b4174c5bf"),
    title: 'MongoDB Programming',
    author: 'Madhur',
    likes: 100
  }
]
CDAC> db.library.insert({title:'MongoDB programming',authors:['Jack','Jill'],likes:200})
{
  acknowledged: true,
  insertedIds: { '0': ObjectId("650c3ba1451d6b1b4174c5c0") }
}
CDAC> db.library.find()
[
  {
    _id: ObjectId("650c3ac9451d6b1b4174c5bf"),
    title: 'MongoDB Programming',
    author: 'Madhur',
    likes: 100
  },
  {
    _id: ObjectId("650c3ba1451d6b1b4174c5c0"),
    title: 'MongoDB programming',
    authors: [ 'Jack', 'Jill' ],
    likes: 200
  }
]
```

## Screenshot 5

```
CDAC> db.library.findOne()
{
  _id: ObjectId("650c3ac9451d6b1b4174c5bf"),
  title: 'MongoDB Programming',
  author: 'Madhur',
  likes: 100
}
CDAC> db.library.find().pretty();
[
  {
    _id: ObjectId("650c3ac9451d6b1b4174c5bf"),
    title: 'MongoDB Programming',
    author: 'Madhur',
    likes: 100
  },
  {
    _id: ObjectId("650c3ba1451d6b1b4174c5c0"),
    title: 'MongoDB programming',
    authors: [ 'Jack', 'Jill' ],
    likes: 200
  }
]
```

## Screenshot 6

```
~ — mongosh mongodb://127.0.0.1:27017/?directConnection=true&serverSelectionTimeoutMS=2000 — -zsh +

[CDAC> db.library.update({author:'Madhur'},{$set:{author:'Madhur Gupta'}}) ]
DeprecationWarning: Collection.update() is deprecated. Use updateOne, updateMany, or bulkWrite.
{
  acknowledged: true,
  insertedId: null,
  matchedCount: 1,
  modifiedCount: 1,
  upsertedCount: 0
}
[CDAC> db.library.find() ]
[
  {
    _id: ObjectId("650c3ac9451d6b1b4174c5bf"),
    title: 'MongoDB Programming',
    author: 'Madhur Gupta',
    likes: 100
  },
  {
    _id: ObjectId("650c3ba1451d6b1b4174c5c0"),
    title: 'MongoDB programming',
    authors: [ 'Jack', 'Jill' ],
    likes: 200
  }
]
[CDAC> db.library.remove({likes:118}) ]
DeprecationWarning: Collection.remove() is deprecated. Use deleteOne, deleteMany, findOneAndDelete, or bulkWrite.
{ acknowledged: true, deletedCount: 0 }
[CDAC> db.library.find() ]
[
  {
    _id: ObjectId("650c3ac9451d6b1b4174c5bf"),
    title: 'MongoDB Programming',
    author: 'Madhur Gupta',
    likes: 100
  },
  {
    _id: ObjectId("650c3ba1451d6b1b4174c5c0"),
    title: 'MongoDB programming',
    authors: [ 'Jack', 'Jill' ],
    likes: 200
  }
]
[CDAC> db.library.remove({likes:100}) ]
{ acknowledged: true, deletedCount: 1 }
```

## Screenshot 7

```
[CDAC> db.library.remove({likes:100})
{ acknowledged: true, deletedCount: 1 }
[CDAC> db.library.find()
[
  {
    _id: ObjectId("650c3ba1451d6b1b4174c5c0"),
    title: 'MongoDB programming',
    authors: [ 'Jack', 'Jill' ],
    likes: 200
  }
]
[CDAC> db.library.drop()
true
[CDAC> show collections
Library
[CDAC> db.Library.drop()
true
[CDAC> show collections

[CDAC> db.dropDatabase('CDAC')
{ ok: 1, dropped: 'CDAC' }
[CDAC> show dbs
admin      40.00 KiB
config    108.00 KiB
local      40.00 KiB
[CDAC> exit
[madhurgupta@Madhurs-MacBook-Air ~ % brew services stop mongodb-community@7.0
Stopping 'mongodb-community' (might take a while)
```

