

MongoDB Notes:- Chandra Sekhar

04 September 2022 09:07

MongoDB:-

MongoDB is a cross-platform, document oriented database that provides, high performance, high availability, and easy scalability. MongoDB works on concept of collection and documents. When NoSQL is need in project this time MongoDB is used in database.

What is MongoDB?

- ✓ MongoDB is a document database designed for ease of development and scaling.
- ✓ It is intuitive and easy to use NoSQL Database
- ✓ Available as community and enterprise edition.
- ✓ However the community edition itself is very powerful!

Mongo and mongod(mongo-demon):-

mongo:- "mongo" is the command-line shell that connects to specific instance of db.(commands dene ke liye)

nongod:- "nongod" is the "mongo demon" . it's basically the host process for the database.(Action)

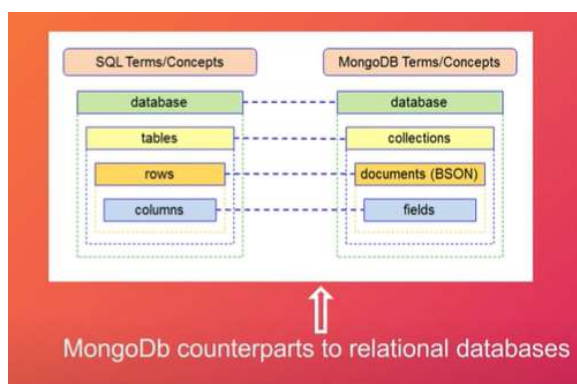
Difference between mongo and mongod

"mongo" is the command-line shell that connects to a specific instance of mongod

► "mongod" is the "Mongo Daemon" it's basically the host process for the database

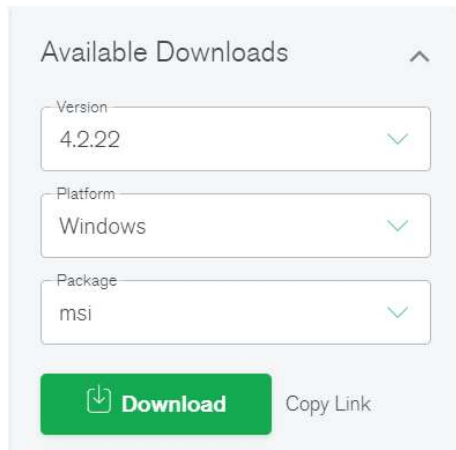
host:- port no(27017):- instance dB-ever:- [https://mongodb://localhost:27017\(mongo\)](https://mongodb://localhost:27017(mongo))

SQL Terms VS MongoDB Terms:-



Database:-

Database is a physical container for collections (tables). Each Database gets its own set of files on the file system. A single MongoDB server typically has multiple databases.



Collection is a group of MongoDB Documents is the equivalent of an RDBMS tables. A collection exists within a single database. Collections do not enforce a schema. Documents within a collection can have different fields. Typically, all documents in a collection are of similar or related process.

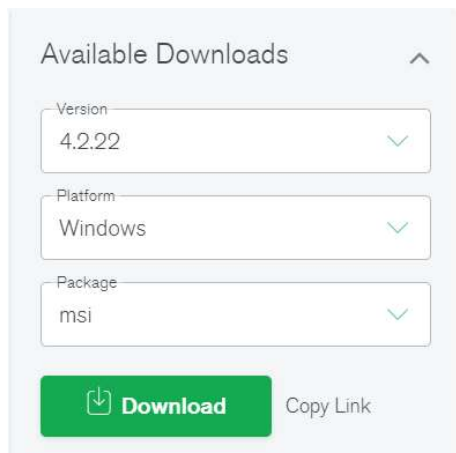
Document:-

A document is a set of key-value pairs. Documents have dynamic schema. Dynamic schema means that documents in the same collection do not need to have the same set of fields or structure, and common fields in a collection's documents may hold different types of data.

Download and Installation Process:-

Link:- https://fastdl.mongodb.org/win32/mongodb-win32-x86_64-2012plus-4.2.22-signed.msi

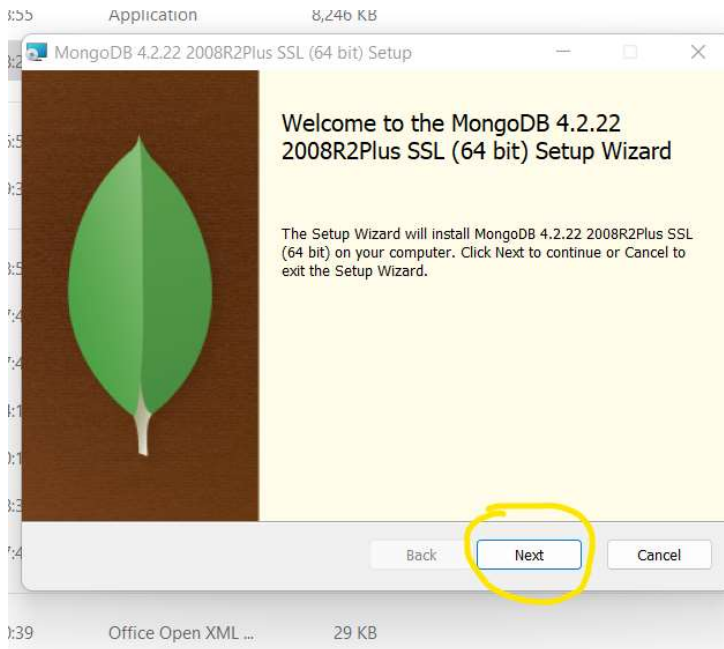
Step:-1



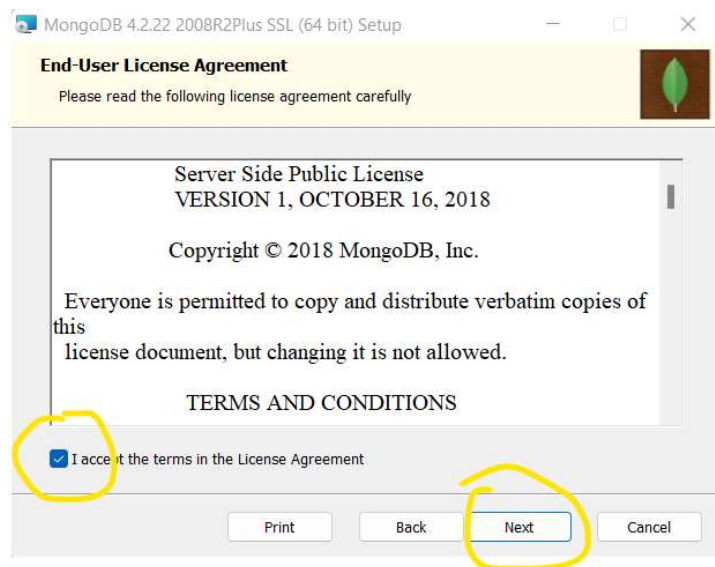
Step-2:-

 mongodb-win32-x86_64-2012plus-4.2.22...	04-09-2022 08:29	Windows Installer ...	2,76,006 KB
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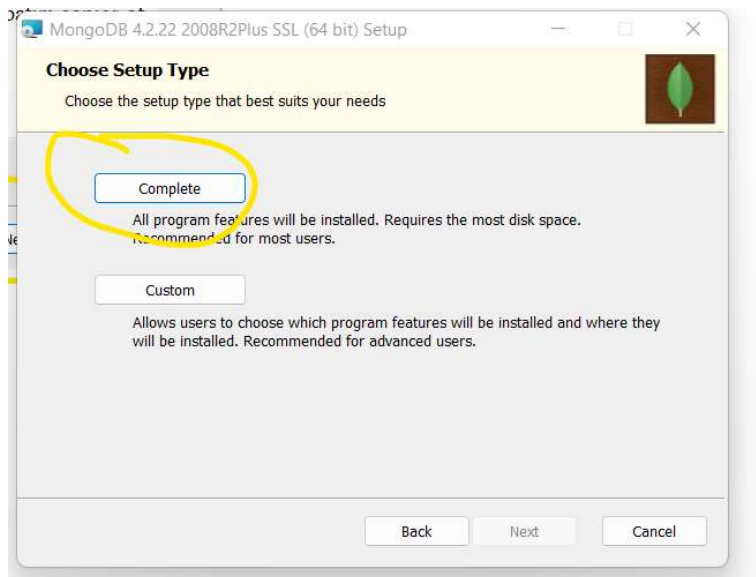
Step-3:-



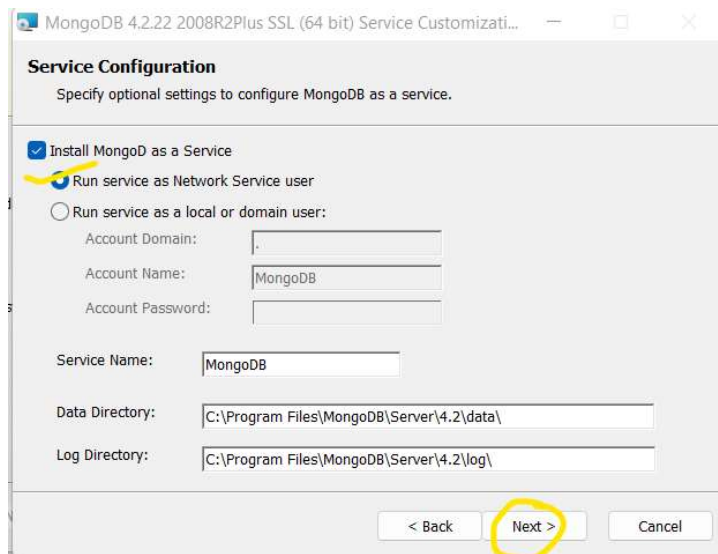
Step-4:-



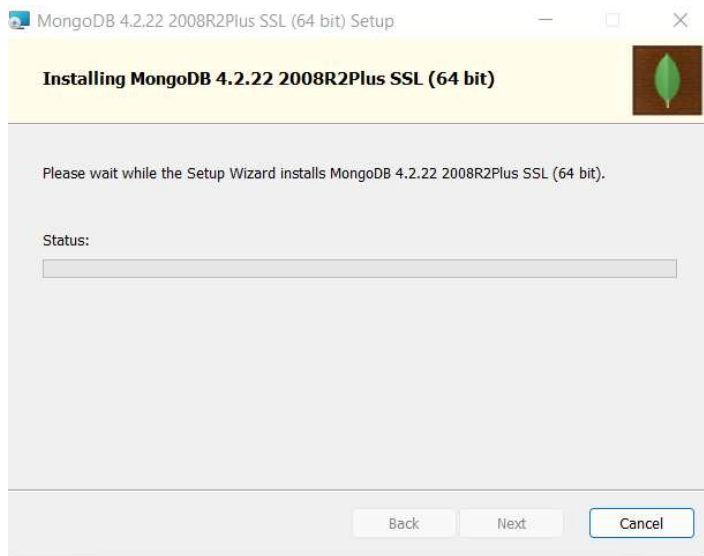
Step-5:-



Step-6:-



Step-7:-

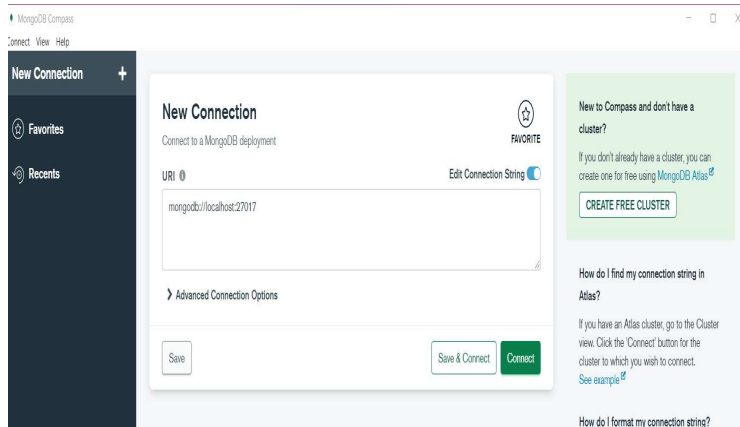


Setup MongoDB in System:-

Check this icon :-



MongoDB Compass:-



Copy This path

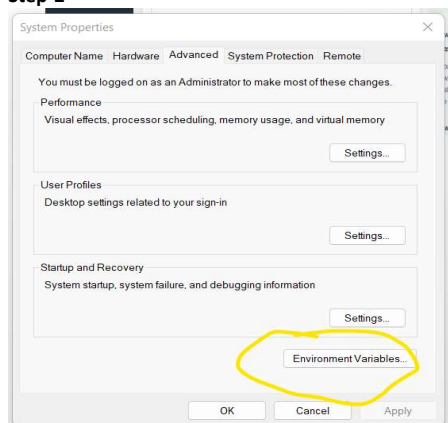
Path :- C:\Program Files\MongoDB\Server\4.2\bin

This PC > Local Disk (C:) > Program Files > MongoDB > Server > 4.2 > bin				
Name	Date modified	Type	Size	
bsondump.exe	11-08-2022 17:07	Application	14,850 KB	
installCompass.ps1	11-08-2022 17:04	Windows PowerShell...	2 KB	
mongo.exe	11-08-2022 17:56	Application	20,682 KB	
mongod.cfg	04-09-2022 10:43	CFG File	1 KB	
mongod.exe	11-08-2022 17:56	Application	35,554 KB	
mongod.pdb	11-08-2022 17:56	PDB File	4,76,900 KB	
mongodump.exe	11-08-2022 17:07	Application	22,825 KB	
mongoexport.exe	11-08-2022 17:07	Application	22,460 KB	
mongoimport.exe	11-08-2022 17:07	Application	22,712 KB	
mongorestore.exe	11-08-2022 17:07	Application	23,309 KB	
mongos.exe	11-08-2022 17:57	Application	10,124 KB	
mongos.pdb	11-08-2022 17:57	PDB File	2,48,876 KB	
mongostat.exe	11-08-2022 17:07	Application	22,015 KB	
mongotop.exe	11-08-2022 17:07	Application	21,583 KB	

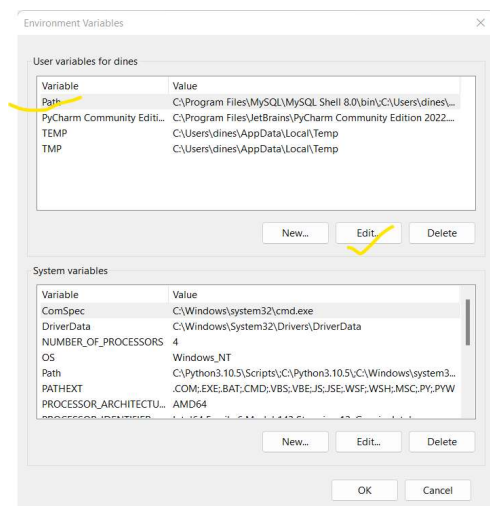
Setup:-

1. search :- 'env' in search bar

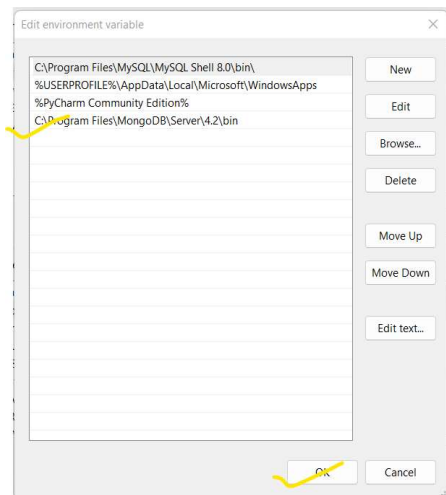
Step-2



Step-2:- Edit the path



Step-3:- Paste the path in environment variable



Then open the CMD or PowerShell.

Search 'mongo' --- check the version

```
Command Prompt - mongo
Microsoft Windows [Version 10.0.22000.856]
(c) Microsoft Corporation. All rights reserved.

C:\Users\dines>mongo
MongoDB shell version v4.2.22
connecting to: mongodb://127.0.0.1:27017/?compressors=disabled&gssapiServiceName=mongodb
Implicit session: session { "id" : UUID("d143a3fb-104b-4d03-a8e3-1f162401cf73") }
MongoDB server version: 4.2.22
Server has startup warnings:
2022-09-04T10:43:57.306+0530 I CONTROL [initandlisten]
2022-09-04T10:43:57.306+0530 I CONTROL [initandlisten] ** WARNING: Access control is not enabled for the database.
2022-09-04T10:43:57.307+0530 I CONTROL [initandlisten] ** Read and write access to data and configuration is
unrestricted.
2022-09-04T10:43:57.340+0530 I CONTROL [initandlisten]
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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()
---
>
```