

Date:04.04.2022

Third Year B. Tech., Sem VI 2021-22

4CS372 : Advanced Database System Lab

Assignment Submission

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Batch: T2

Assignment: 9

Title of assignment: MongoDB CassandraDb

Objective:

To install MongoDB and CassandraDb on windows platform and To develop a Python desktop Application to demonstrate the CRUD operation with above backend cloud databases

Introduction & Theory:

MongoDb:

MongoDB is an open-source document database and leading NoSQL database. MongoDB is written in C++. This tutorial will give you great understanding on MongoDB concepts needed to create and deploy a highly scalable and performance-oriented database.

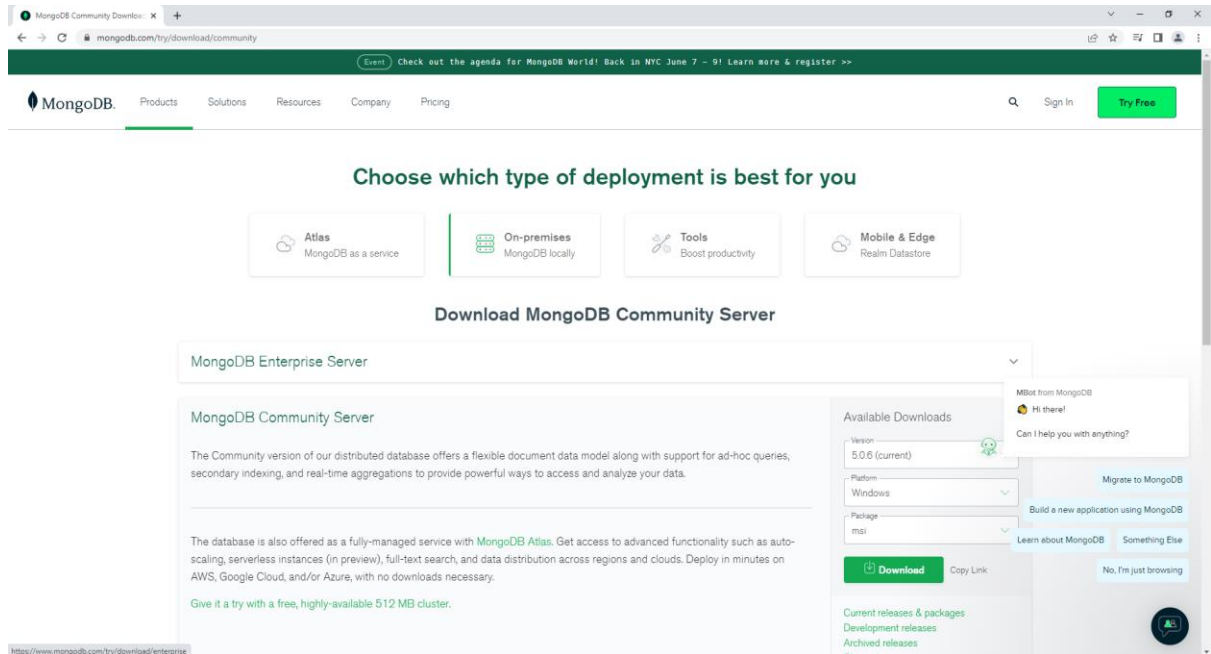
Cassandra:

Cassandra is a distributed database management system which is open source with wide column store, NoSQL database to handle large amount of data across many commodity servers which provides high availability with no single point of failure. It is written in Java and developed by Apache Software Foundation.

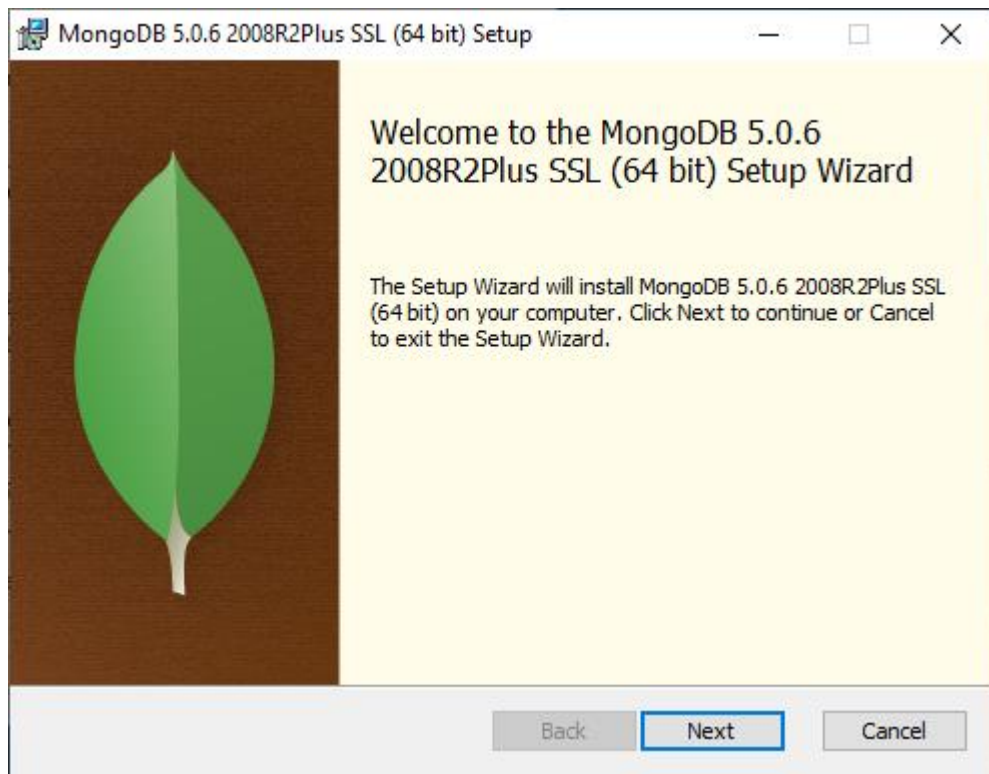
Procedure / Experiment:

Installation of MongoDB

1. Downloading the exe file of MongoDB



2. Installation of MongoDB



MongoDB 5.0.6 2008R2Plus SSL (64 bit) Setup

End-User License Agreement

Please read the following license agreement carefully

Server Side Public License
VERSION 1, OCTOBER 16, 2018

Copyright © 2018 MongoDB, Inc.

Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

TERMS AND CONDITIONS

☒ I accept the terms in the License Agreement

Print Back Next Cancel

MongoDB 5.0.6 2008R2Plus SSL (64 bit) Service Customization

Service Configuration

Specify optional settings to configure MongoDB as a service.

☒ Install MongoDB as a Service

☒ Run service as Network Service user

☐ Run service as a local or domain user:

Account Domain:

Account Name:

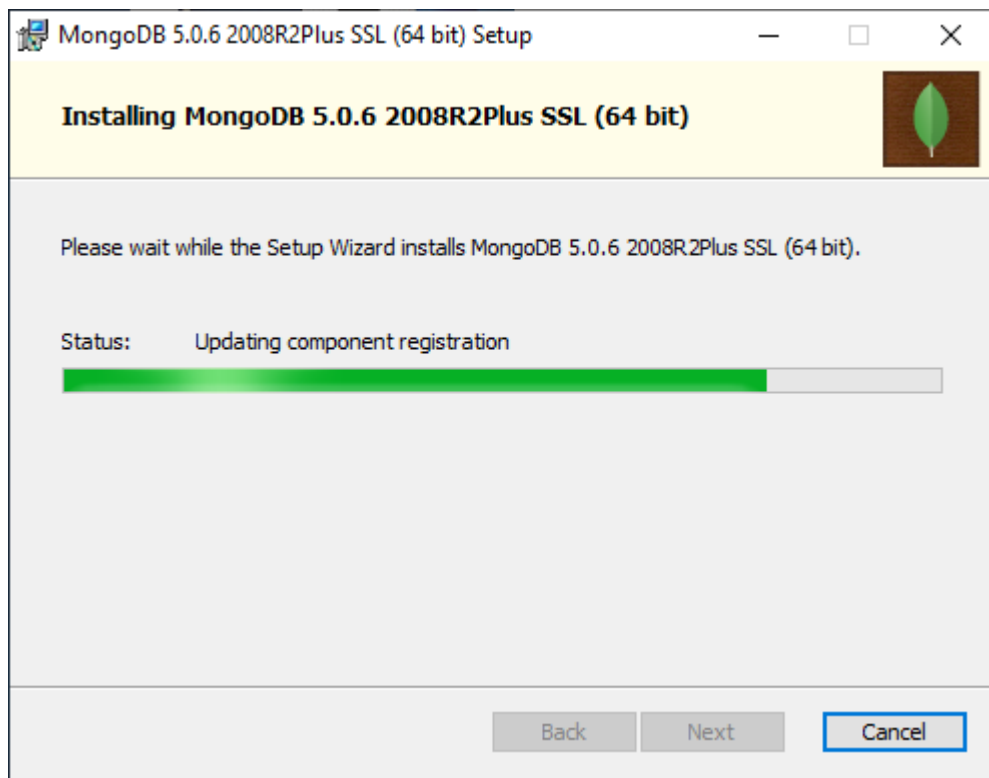
Account Password:

Service Name:

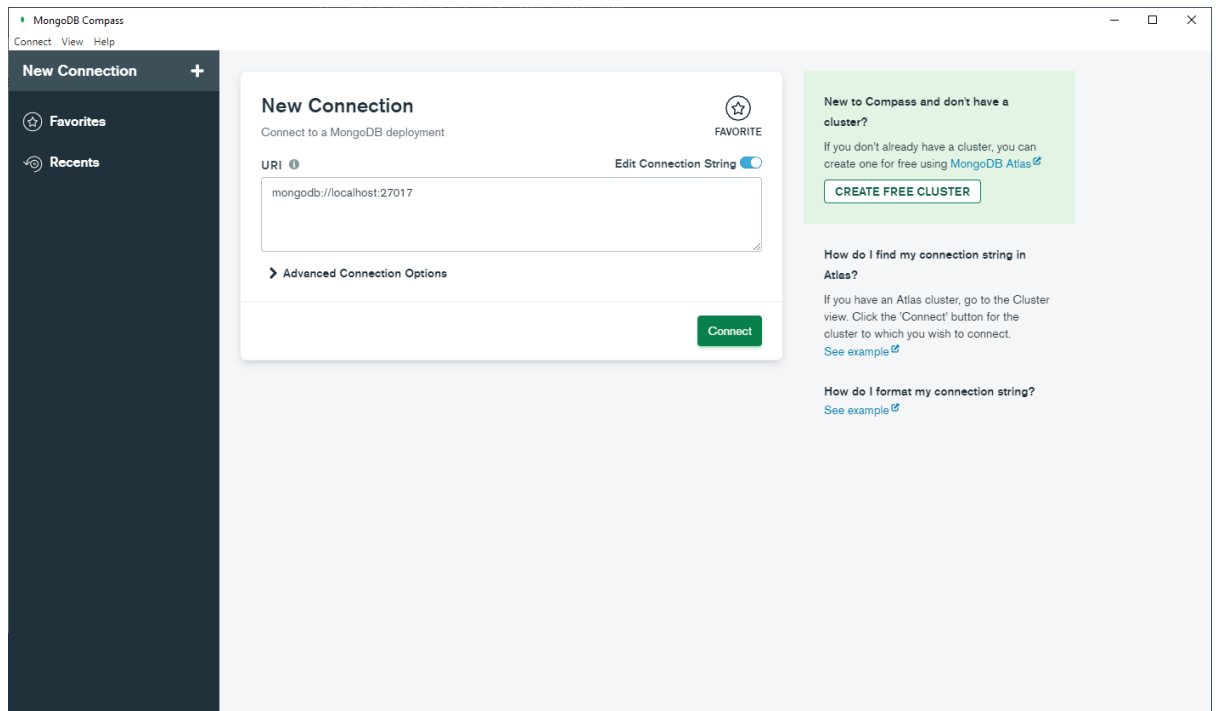
Data Directory:

Log Directory:

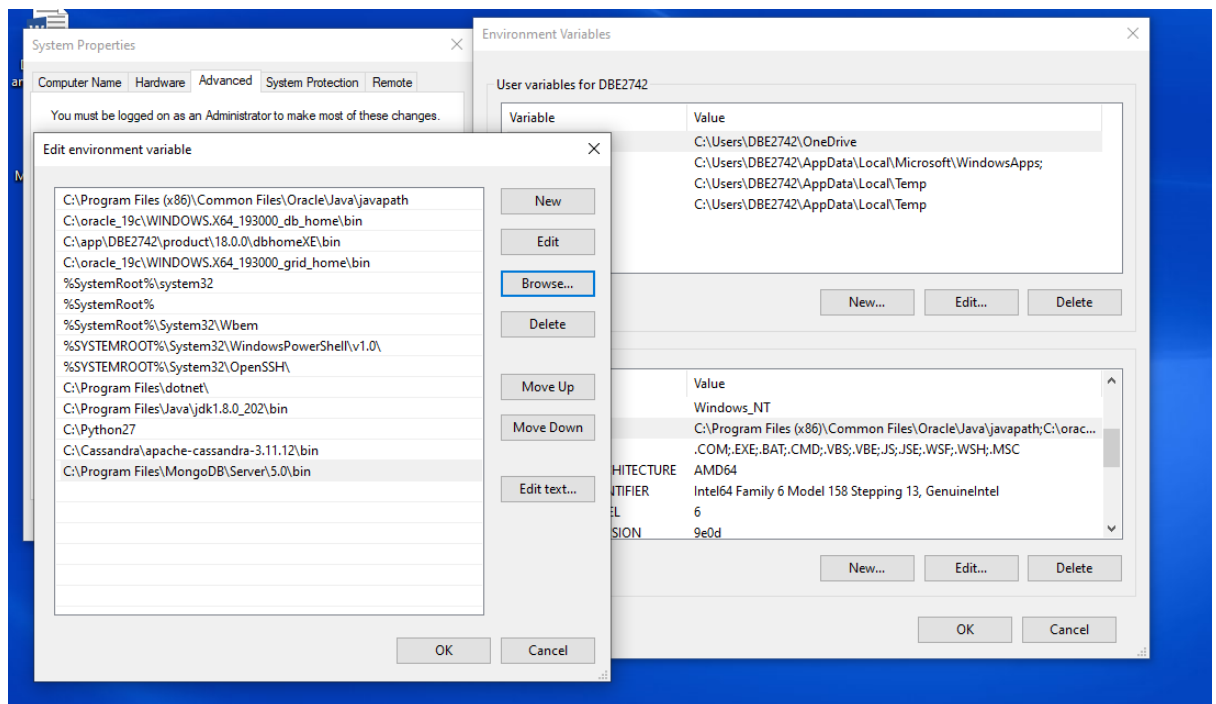
< Back Next > Cancel



MongoDB Compass is being installed.
It will launch once it is done.



3. Setting the Environment Variables of MongoDB



4. Running MongoDB on CMD

```
C:\Windows\System32\cmd.exe
Microsoft Windows [Version 10.0.18363.720]
(c) 2019 Microsoft Corporation. All rights reserved.

C:\Program Files\MongoDB\Server\5.0\bin>mongo
{"t":{"sdate":"2022-04-04T14:22:05.133405+30"},"s":"I","c":"NETWORK","id":"4915701","ctx":{"s","msg":"Initialized wire specification","attr":{"spec":{"incomingExternalClient":{"minWireVersion":0,"maxWireVersion":13},"incomingInternalClient":{"minWireVersion":0,"maxWireVersion":13},"isInternalClient":true}}},"msg":"Automatically disabling TLS 1.0 to force-enable TLS 1.0 specify --sslDisabledProtocols 'none'"}}
{"t":{"sdate":"2022-04-04T14:22:05.452405+30"},"s":"I","c":"CONTROL","id":"22285","ctx":{"s","msg":"Two TransportLayer configured during NetworkInterface startup"}}
{"t":{"sdate":"2022-04-04T14:22:05.452405+30"},"s":"I","c":"ASIO","id":"22681","ctx":{"s","msg":"Implicit TCP FastOpen in use."}}
{"t":{"sdate":"2022-04-04T14:22:05.452405+30"},"s":"I","c":"NETWORK","id":"4648682","ctx":{"s","msg":"Successfully registered PrimaryOnlyService","attr":{"service":"TenantMigrationDonorService","ns":"config.tenantMigrationDonors"}}}
{"t":{"sdate":"2022-04-04T14:22:05.454405+30"},"s":"I","c":"ASIO","id":"22681","ctx":{"s","msg":"Two TransportLayer configured during NetworkInterface startup"}}
{"t":{"sdate":"2022-04-04T14:22:05.454405+30"},"s":"I","c":"NETWORK","id":"5123888","ctx":{"s","msg":"Successfully registered PrimaryOnlyService","attr":{"service":"TenantMigrationRecipientService","ns":"config.tenantMigrationRecipientService"}}}
{"t":{"sdate":"2022-04-04T14:22:05.454405+30"},"s":"I","c":"REPL","id":"5123888","ctx":{"s","msg":"Successfully registered PrimaryOnlyService","attr":{"service":"TenantMigrationRecipientService","ns":"config.tenantMigrationRecipientService"}}}
{"t":{"sdate":"2022-04-04T14:22:05.454405+30"},"s":"I","c":"CONTROL","id":"5945683","ctx":{"s","msg":"Multi threading initialized"}}
{"t":{"sdate":"2022-04-04T14:22:05.455405+30"},"s":"I","c":"CONTROL","id":"4615611","ctx":{"s","msg":"MongoDB starting","attr":{"pid":7944,"port":27017,"dbPath":"c:/data/db/","architecture":"64-bit","host":"DESKTOP-RFO1A1A"}}}
{"t":{"sdate":"2022-04-04T14:22:05.455405+30"},"s":"I","c":"CONTROL","id":"23398","ctx":{"s","msg":"Target operating system minimum version","attr":{"targetMinOS":"Windows 7/Windows Server 2008 R2"}}}
{"t":{"sdate":"2022-04-04T14:22:05.455405+30"},"s":"I","c":"CONTROL","id":"23489","ctx":{"s","msg":"Build Info","attr":{"buildInfo":{"version":"5.0.6","gitVersion":"212a8db047f07427dae1949c75baec1d109259","modules":[],"distarch":"x86_64","targetarch":"x86_64"}}}}}
{"t":{"sdate":"2022-04-04T14:22:05.455405+30"},"s":"I","c":"CONTROL","id":"51765","ctx":{"s","msg":"Operating System","attr":{"os":{"name":"Microsoft Windows 10","version":"10.0 (build 18363)"}}}
{"t":{"sdate":"2022-04-04T14:22:05.455405+30"},"s":"I","c":"CONTROL","id":"21591","ctx":{"s","msg":"Options set by command line","attr":{"options":{"storage.dbPath":"c:/data/db/","architecture":"64-bit","host":"DESKTOP-RFO1A1A","waitTimeMillis":15000}}}}}
{"t":{"sdate":"2022-04-04T14:22:05.455405+30"},"s":"I","c":"CONTROL","id":"28557","ctx":{"s","msg":"DBException in initAndListen, terminating","attr":{"error":"NonexistentPath: Data directory C:\\data\\db\\ not found. Create the missing directory or specify another path using (1) the --dbPath command line option, or (2) by adding the 'storage.dbPath' option in the configuration file."}}}
{"t":{"sdate":"2022-04-04T14:22:05.455405+30"},"s":"I","c":"REPL","id":"4784980","ctx":{"s","msg":"Stepping down the ReplicationCoordinator for shutdown","attr":{"waitTimeMillis":15000}}}
{"t":{"sdate":"2022-04-04T14:22:05.455405+30"},"s":"I","c":"REPL","id":"4784981","ctx":{"s","msg":"Shutting down the MirrorMastro"}}
{"t":{"sdate":"2022-04-04T14:22:05.455405+30"},"s":"I","c":"SHARDING","id":"4784982","ctx":{"s","msg":"Shutting down the WaitForSyncService"}}
{"t":{"sdate":"2022-04-04T14:22:05.455405+30"},"s":"I","c":"NETWORK","id":"28557","ctx":{"s","msg":"Shutdown: going to close listening socket"}}
{"t":{"sdate":"2022-04-04T14:22:05.455405+30"},"s":"I","c":"NETWORK","id":"4784985","ctx":{"s","msg":"Shutting down the global connection pool"}}
{"t":{"sdate":"2022-04-04T14:22:05.455405+30"},"s":"I","c":"CONTROL","id":"4784986","ctx":{"s","msg":"Shutting down the FlowControlTicketHolder"}}
{"t":{"sdate":"2022-04-04T14:22:05.455405+30"},"s":"I","c":"","id":"28528","ctx":{"s","msg":"Stopping further Flow Control ticket acquisitions."}}
{"t":{"sdate":"2022-04-04T14:22:05.455405+30"},"s":"I","c":"NETWORK","id":"4784918","ctx":{"s","msg":"Shutting down the ReplicaSetMonitor"}}
{"t":{"sdate":"2022-04-04T14:22:05.455405+30"},"s":"I","c":"SHARDING","id":"4784921","ctx":{"s","msg":"Shutting down the MigrationUtilExecutor"}}
{"t":{"sdate":"2022-04-04T14:22:05.455405+30"},"s":"I","c":"ASIO","id":"22582","ctx":{"s","msg":"MigrationUtilTaskExecutor","msg":"Killing all outstanding egress activity."}}
{"t":{"sdate":"2022-04-04T14:22:05.455405+30"},"s":"I","c":"COMMAND","id":"4784923","ctx":{"s","msg":"Shutting down the ServiceEntryPoint"}}
{"t":{"sdate":"2022-04-04T14:22:05.455405+30"},"s":"I","c":"CONTROL","id":"4784925","ctx":{"s","msg":"Shutting down free monitoring"}}
{"t":{"sdate":"2022-04-04T14:22:05.455405+30"},"s":"I","c":"CONTROL","id":"4784927","ctx":{"s","msg":"Shutting down the Healthlog"}}
{"t":{"sdate":"2022-04-04T14:22:05.455405+30"},"s":"I","c":"CONTROL","id":"4784928","ctx":{"s","msg":"Shutting down the TTL monitor"}}
{"t":{"sdate":"2022-04-04T14:22:05.455405+30"},"s":"I","c":"CONTROL","id":"4784929","ctx":{"s","msg":"Acquiring the global lock for shutdown"}}
{"t":{"sdate":"2022-04-04T14:22:05.455405+30"},"s":"I","c":"","id":"4784931","ctx":{"s","msg":"Dropping the scope cache for shutdown"}}
{"t":{"sdate":"2022-04-04T14:22:05.455405+30"},"s":"I","c":"","id":"4784934","ctx":{"s","msg":"Shutting down full-view data capture"}}
{"t":{"sdate":"2022-04-04T14:22:05.455405+30"},"s":"I","c":"CONTROL","id":"28565","ctx":{"s","msg":"Now exiting"}}
{"t":{"sdate":"2022-04-04T14:22:05.455405+30"},"s":"I","c":"CONTROL","id":"23138","ctx":{"s","msg":"Shutting down","attr":{"exitCode":100}}}
```

```
C:\Windows\System32\cmd.exe - mongo

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()

---
> show dbs
admin      0.000GB
config     0.000GB
local      0.000GB
>
```

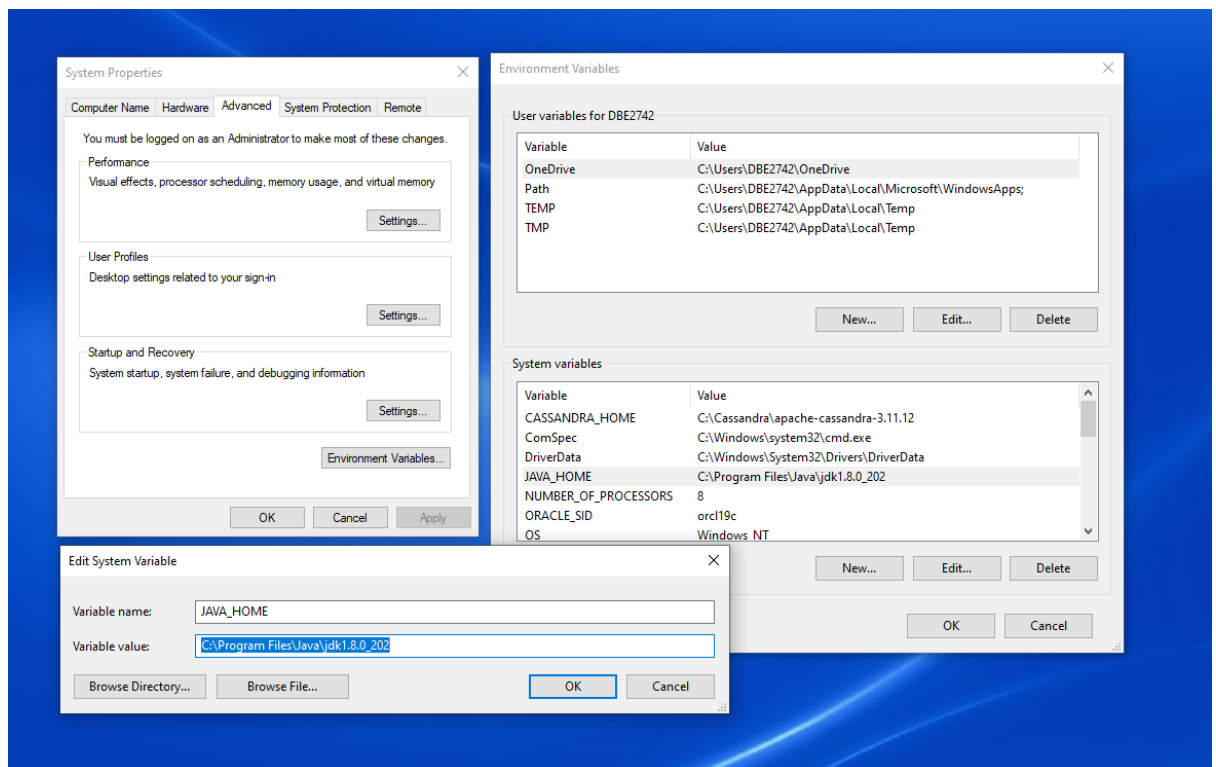
Installation of CassandraDb:

1. Download and Installation of Java – 8

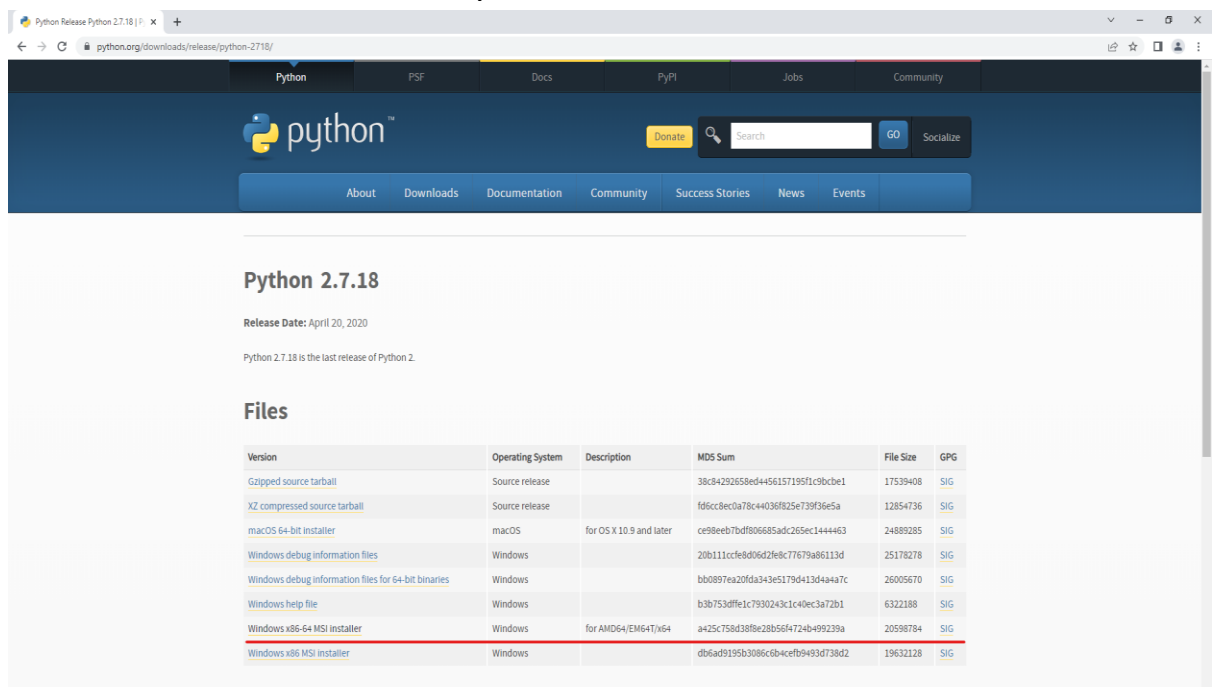
The screenshot shows the Oracle Java SE Development Kit 8 - Setup window. The window title is "Java SE Development Kit 8 - Setup". The main content area displays the Java logo and the text: "This wizard will guide you through the installation process for the JDK 8 Update 251". Below this, there is a warning message: "The terms under which this version of the software is licensed have changed." followed by a link to the "Updated License Agreement". Another line of text states: "The Java Mission Control profiling and diagnostic tools suite is now available as part of the JDK". Below that, it says: "No personal information is gathered as part of our install process." followed by a link to "Details on the information we collect". At the bottom right, there are two buttons: "Next" and "Cancel". The "Next" button is highlighted with a red rectangular box.

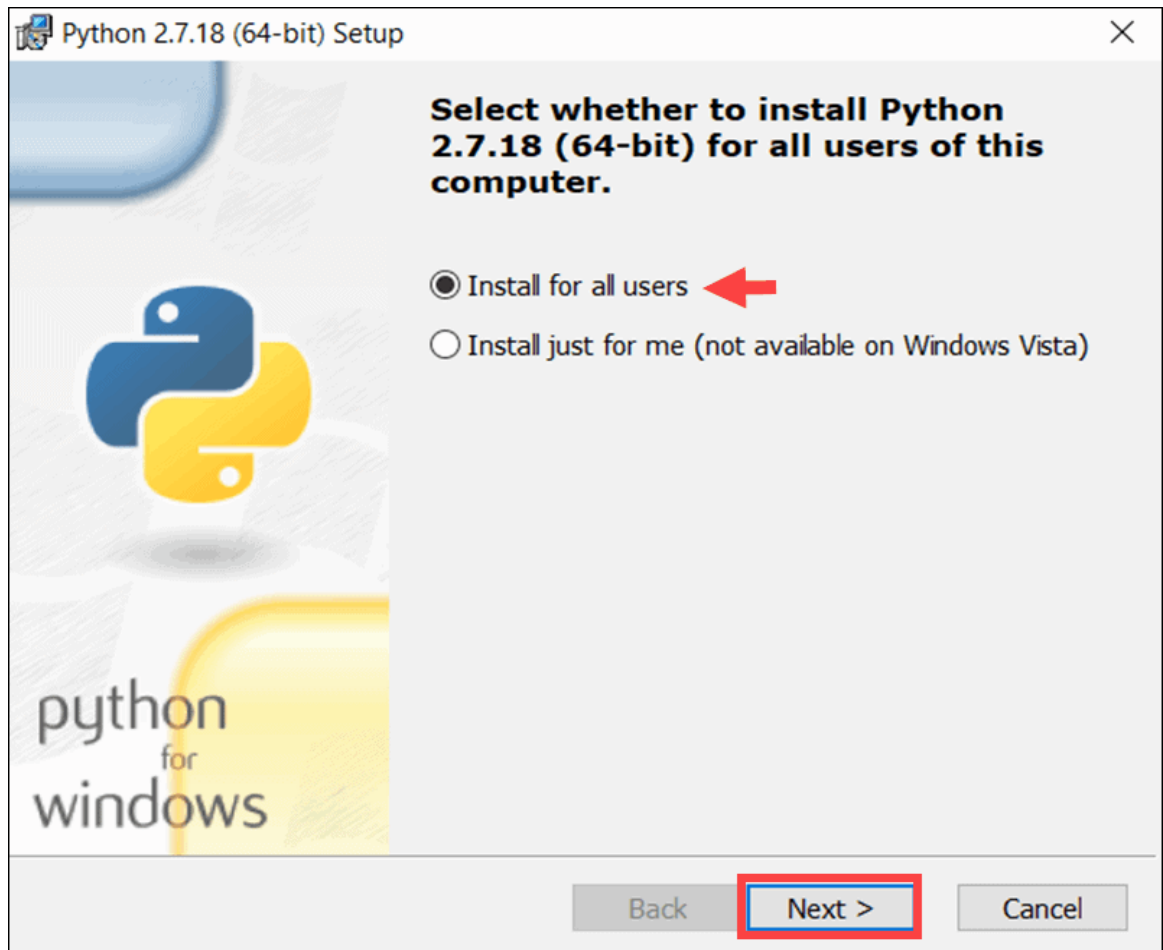
Platform	Size	Download Link
Linux x64	170.15 MB	jdk-8u202-linux-x64.rpm
Linux x64	185.05 MB	jdk-8u202-linux-x64.tar.gz
Mac OS X x64	249.15 MB	jdk-8u202-macosx-x64.dmg
Solaris SPARC 64-bit (SVR4 package)	125.09 MB	jdk-8u202-solaris-sparcv9.tar.Z
Solaris SPARC 64-bit	88.1 MB	jdk-8u202-solaris-sparcv9.tar.gz
Solaris x64 (SVR4 package)	124.37 MB	jdk-8u202-solaris-x64.tar.Z
Solaris x64	85.38 MB	jdk-8u202-solaris-x64.tar.gz
Windows x86	201.64 MB	jdk-8u202-windows-i586.exe
Windows x64	211.58 MB	jdk-8u202-windows-x64.exe

2. Configure Environment Variables for Java 8

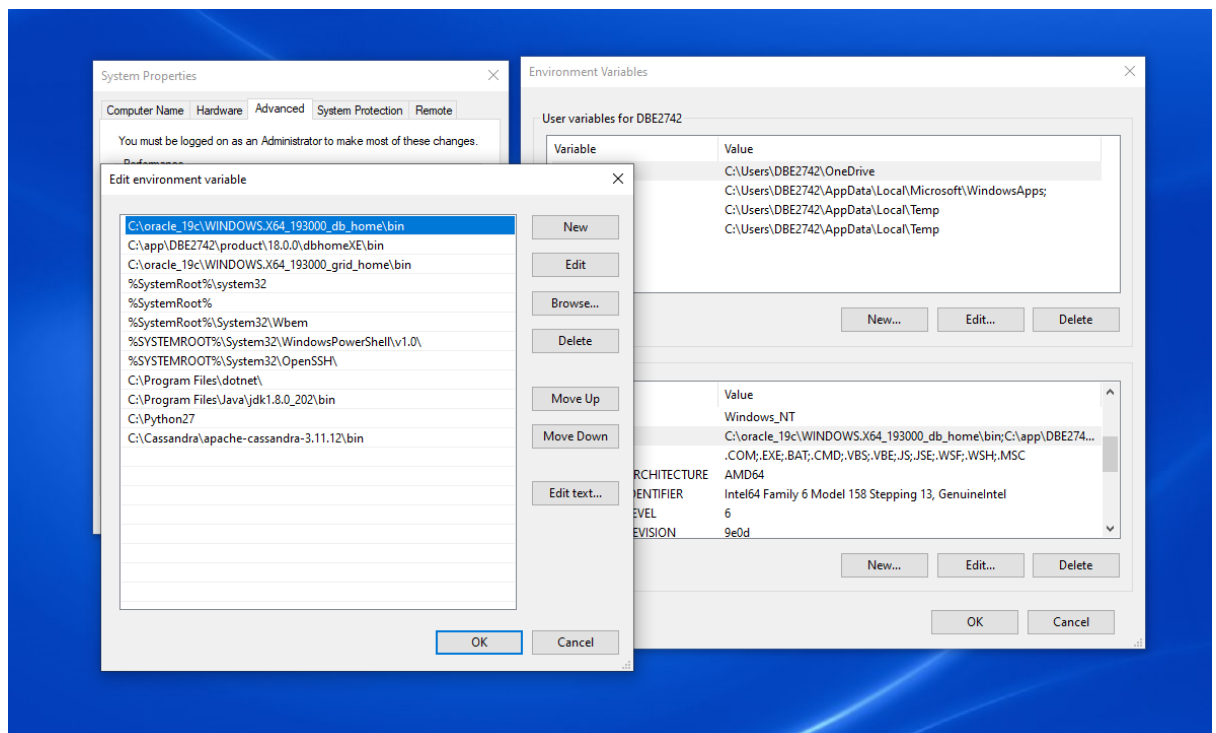


3. Download and Installation of Python 2.7

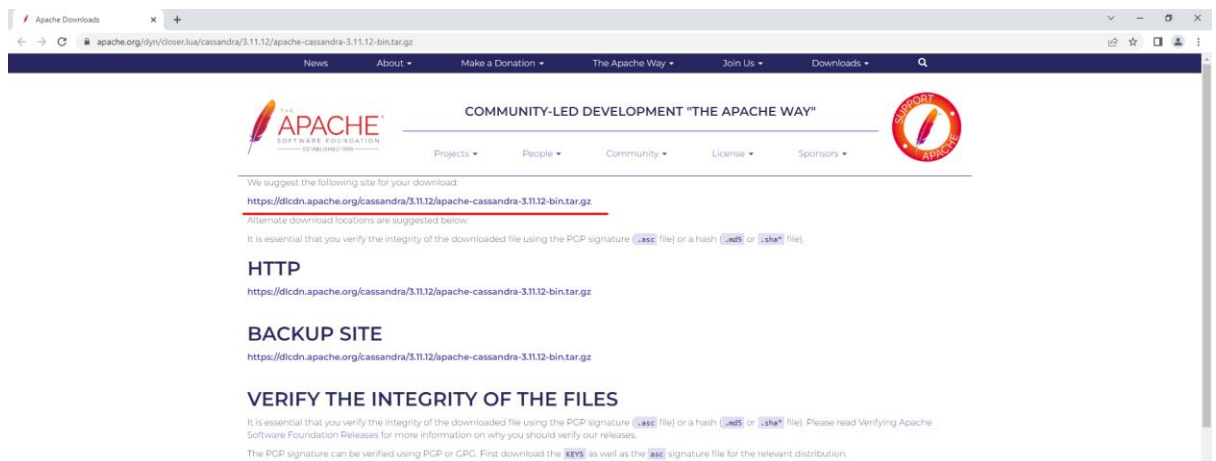




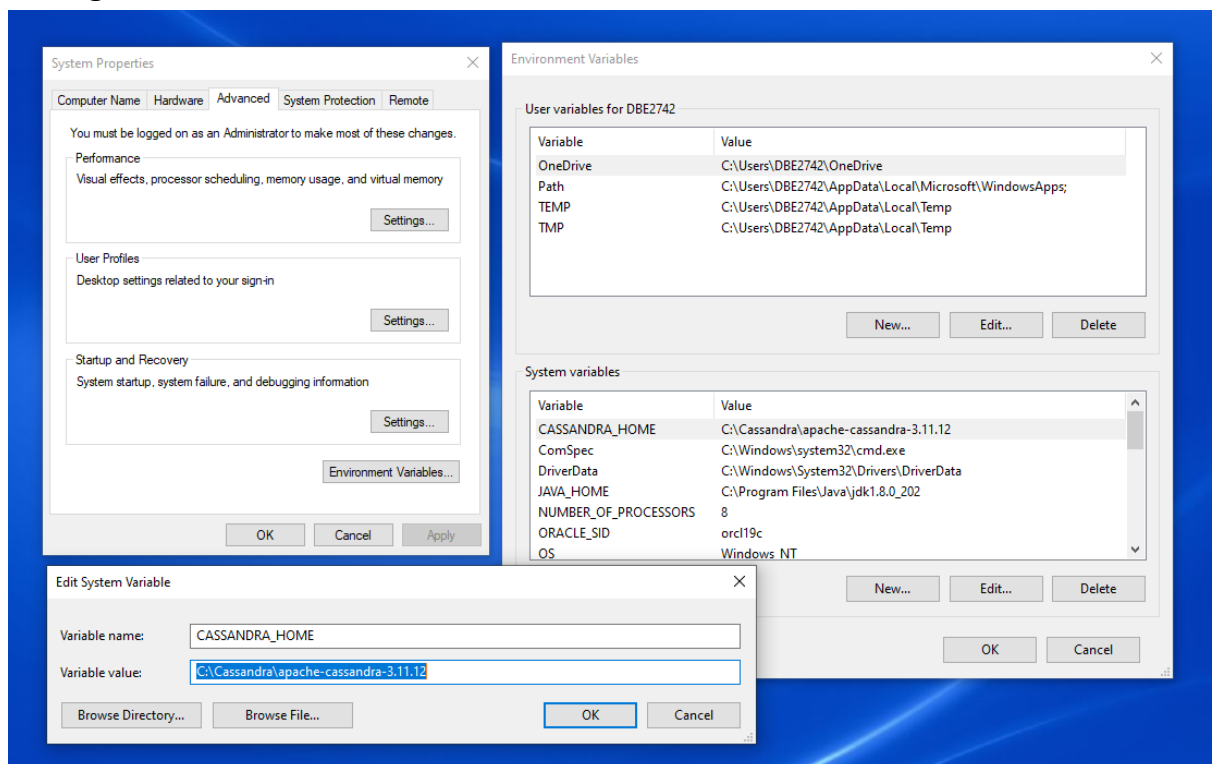
4. Configure and edit environment variable for python 2.7

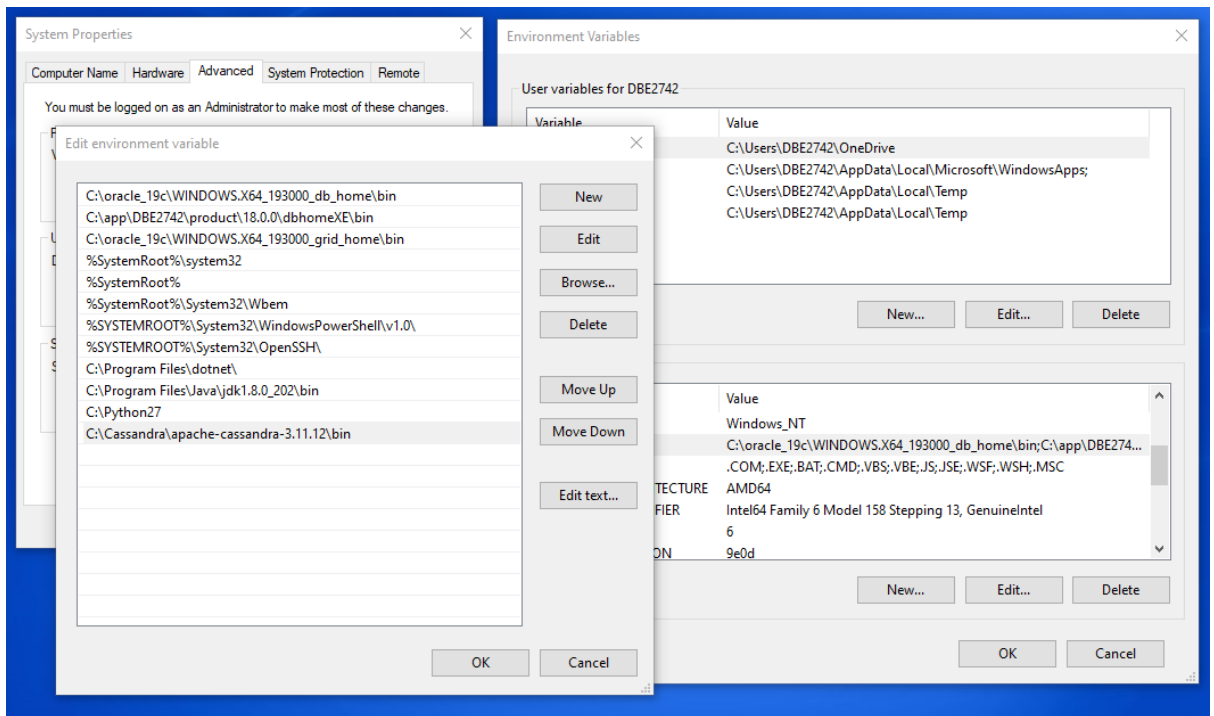


5. Download and Set Up of Cassandra



6. Configure Environment Variables for Cassandra





7. Start Cassandra from Windows CMD

```

C:\Windows\System32\cmd.exe
Microsoft Windows [Version 10.0.18363.720]
(c) 2019 Microsoft Corporation. All rights reserved.

C:\Cassandra\apache-cassandra-3.11.12\bin>cassandra
Detected powershell execution permissions. Running with enhanced startup scripts.

WARNING! Automatic page file configuration detected.
It is recommended that you disable swap when running Cassandra
for performance and stability reasons.

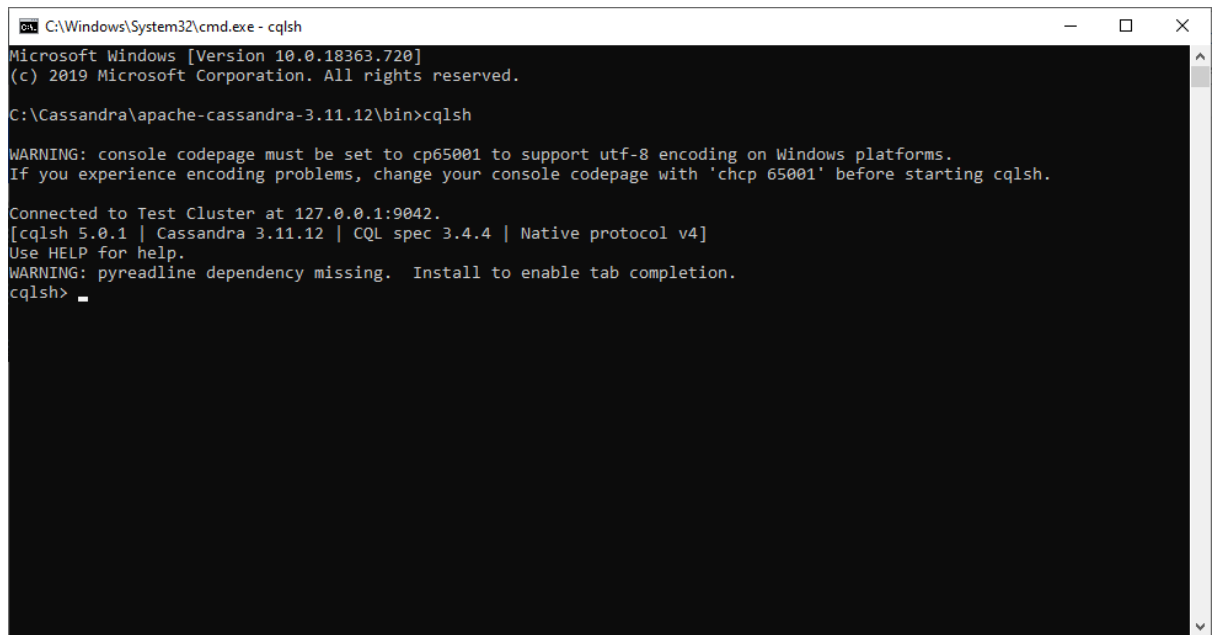
WARNING! Detected a power profile other than High Performance.
Performance of this node will suffer.
Modify config/cassandra-env.ps1 to suppress this warning.

Java HotSpot(TM) 64-Bit Server VM warning: Cannot open file C:\Cassandra\apache-cassandra-3.11.12\logs/gc.log due to No such file or directory

C:\Windows\System32\cmd.exe
INFO [main] 2022-04-04 13:51:06.045 StorageService.java:910 - Starting up server gossip
INFO [main] 2022-04-04 13:51:06.558 StorageService.java:999 - This node will not auto bootstrap because it is configured to be a seed node.
INFO [main] 2022-04-04 13:51:06.563 Bootstrap.java:128 - Generated random tokens. Tokens are [-2810816910374015486, -178406911610815540, 2518891997126504581, 5908646523996078441, -6003740065457340482, -9021891154795575697, -84647711
8089662648, 277177153502404939, -2802723863081346982, 360802753757583526, -715538306255690170, -204373730622791257, -3842161343149228434, 9056099359818424128, 715832327648599105, 8678813984379556112, -8531267044742735972, 818801878
1243284657, 53326627022822569, -650222922022822569, 44518999122822569, 2655858724451527, -10352005979460902, -451400375228206002, -510243312646403340, 664748078110641658, 78486604242282524, 31432107086125040, 812737
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7744471001, -12127200420516089, -2100780666293579881, -586884595761438485, 2177470003082575441
INFO [MigrationStage-1] 2022-04-04 13:51:15.158 ViewManager.java:137 - Not submitting build tasks for views in keyspace system_traces as storage service is not initialized
INFO [MigrationStage-1] 2022-04-04 13:51:15.204 ColumnFamilyStore.java:432 - Initializing system_traces.events
INFO [MigrationStage-1] 2022-04-04 13:51:15.212 ColumnFamilyStore.java:432 - Initializing system_traces.sessions
INFO [MigrationStage-1] 2022-04-04 13:51:15.224 ViewManager.java:137 - Not submitting build tasks for views in keyspace system_distributed as storage service is not initialized
INFO [MigrationStage-1] 2022-04-04 13:51:15.235 ColumnFamilyStore.java:432 - Initializing system_distributed.parent_repair_history
INFO [MigrationStage-1] 2022-04-04 13:51:15.327 ColumnFamilyStore.java:432 - Initializing system_distributed.repair_history
INFO [MigrationStage-1] 2022-04-04 13:51:15.333 ColumnFamilyStore.java:432 - Initializing system_distributed.view_build_status
INFO [MigrationStage-1] 2022-04-04 13:51:15.337 ViewManager.java:137 - Not submitting build tasks for views in keyspace system_auth as storage service is not initialized
INFO [MigrationStage-1] 2022-04-04 13:51:15.344 ColumnFamilyStore.java:432 - Initializing system_auth.resource_role_permissions_index
INFO [MigrationStage-1] 2022-04-04 13:51:15.345 ColumnFamilyStore.java:432 - Initializing system_auth.role_members
INFO [MigrationStage-1] 2022-04-04 13:51:15.351 ColumnFamilyStore.java:432 - Initializing system_auth.role_permissions
INFO [MigrationStage-1] 2022-04-04 13:51:15.358 ColumnFamilyStore.java:432 - Initializing system_auth.roles
INFO [main] 2022-04-04 13:51:15.376 StorageService.java:1508 - JOINING: Finish joining ring

```

8. Access Cassandra cqlsh from Windows CMD



```
C:\Windows\System32\cmd.exe - cqlsh
Microsoft Windows [Version 10.0.18363.720]
(c) 2019 Microsoft Corporation. All rights reserved.

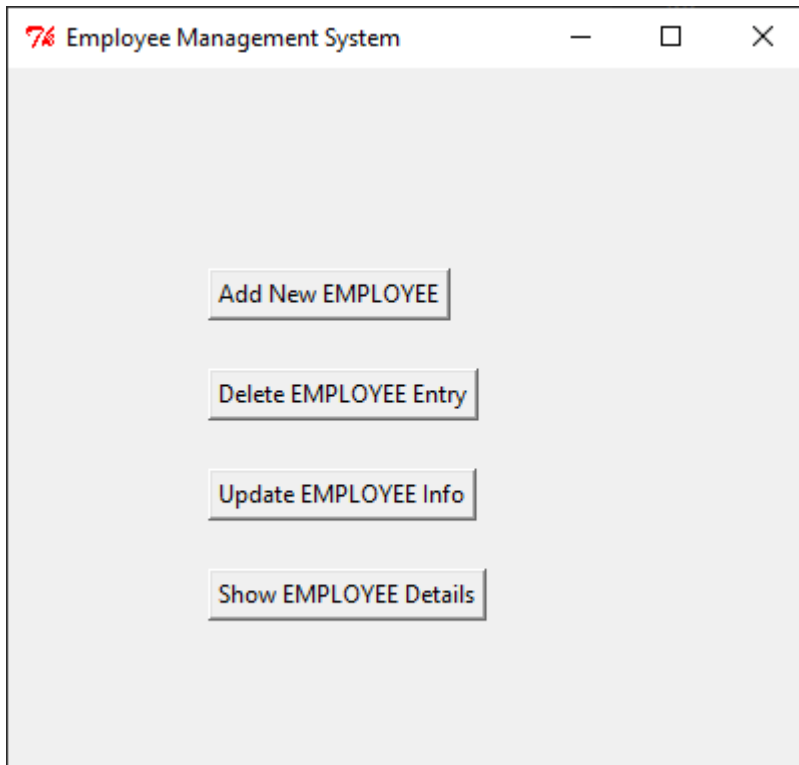
C:\Cassandra\apache-cassandra-3.11.12\bin>cqlsh

WARNING: console codepage must be set to cp65001 to support utf-8 encoding on Windows platforms.
If you experience encoding problems, change your console codepage with 'chcp 65001' before starting cqlsh.

Connected to Test Cluster at 127.0.0.1:9042.
[cqlsh 5.0.1 | Cassandra 3.11.12 | CQL spec 3.4.4 | Native protocol v4]
Use HELP for help.
WARNING: pyreadline dependency missing. Install to enable tab completion.
cqlsh> _
```

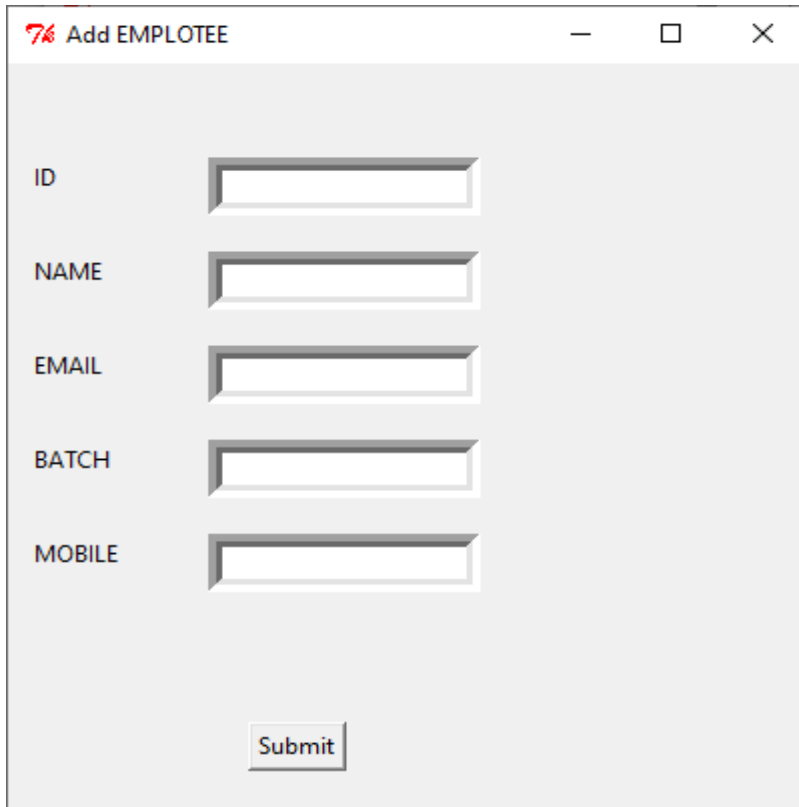
Python Application with MongoDB Database:

Dashboard



The screenshot shows a window titled "Employee Management System" with a red logo icon. The window contains four buttons arranged vertically in the center: "Add New EMPLOYEE", "Delete EMPLOYEE Entry", "Update EMPLOYEE Info", and "Show EMPLOYEE Details".

Inserting Data



The screenshot shows a window titled "Add EMPLOYEE" with a red logo icon. The window contains five input fields with labels to their left: "ID", "NAME", "EMAIL", "BATCH", and "MOBILE". Below these fields is a "Submit" button.

7% Add EMPLOYEE

ID


NAME

EMAIL

BATCH

MOBILE

7% Add Employee

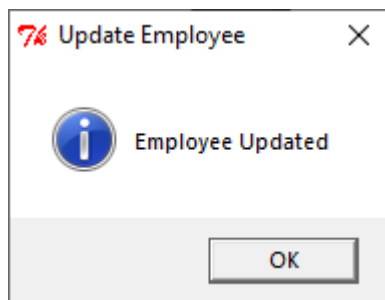
 Employee Added

Display data

7% EMPLOYEE Details				
ID	NAME	EMAIL	BATCH	MOBILE
12	Rohan	rohan@gmail.com	Morning	5467542354
23	Rahul	rahul@gmail.com	Evening	9980965789
45	Vaishnavi	vaishnavi@gmail.com	Morning	9845231267

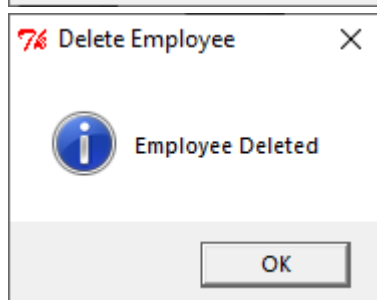
Updating data

7% Update EMPLOYEE	
ID	<input type="text" value="23"/>
NAME	<input type="text" value="Rajesh"/>
EMAIL	<input type="text" value="rajesh@gmail.com"/>
BATCH	<input type="text" value="Night"/>
MOBILE	<input type="text" value="6745345678"/>
<input type="button" value="Submit"/>	



Delete Data

A larger dialog box titled "Delete EMPLOYEE" with a red icon and standard window controls. It features a text input field labeled "ID" containing the value "12". Below the input field is a "Delete Entry" button.



EMPLOYEE Details				
ID	NAME	EMAIL	BATCH	MOBILE
23	Rajesh	rajesh@gmail.com	Night	6745345678
45	Vaishnavi	vaishnavi@gmail.com	Morning	9845231267

Database in MongoDB Compass

MongoDB Compass - localhost:27017/Assignment08.employee

Connect View Collection Help

localhost:27017

4 DBS 4 COLLECTIONS

HOST localhost:27017

CLUSTER Standalone

EDITION MongoDB 5.0.6 Community

My Queries

Databases

Filter your data

Assignment08

employee

admin

config

local

Assignment08.employee Documents

DOCUMENTS 2 STORAGE SIZE 20.5KB AVG. SIZE 122B INDEXES 1 TOTAL SIZE 36.9KB AVG. SIZE 36.9KB

Documents Aggregations Schema Explain Plan Indexes Validation

FILTER { field: 'value' }

ADD DATA VIEW

Displaying documents 1 - 2 of 2 REFRESH

```
{
  "_id": ObjectId("624ac6983941bab2e0ef2040"),
  "NAME": "Rajesh",
  "MOBILE": "6745345678",
  "BATCH": "Night",
  "ID": "23",
  "EMAIL": "rajesh@gmail.com"
}
```

```
{
  "_id": ObjectId("624ac6be3941bab2e0ef2041"),
  "NAME": "Vaishnavi",
  "MOBILE": "9845231267",
  "BATCH": "Morning",
  "ID": "45",
  "EMAIL": "vaishnavi@gmail.com"
}
```

> _MONGOSH