TY B.Tech. (CSE) – II [2022-23]
5CS372 : Advanced Database System Lab.

Assignment No. 9

PRN: 2020BTECS00079
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Install & deploy the following cloud databases on windows platform :
Write Python desktop Application to demonstrate the CRUD operation with above backend cloud databases.

A] MongoDB

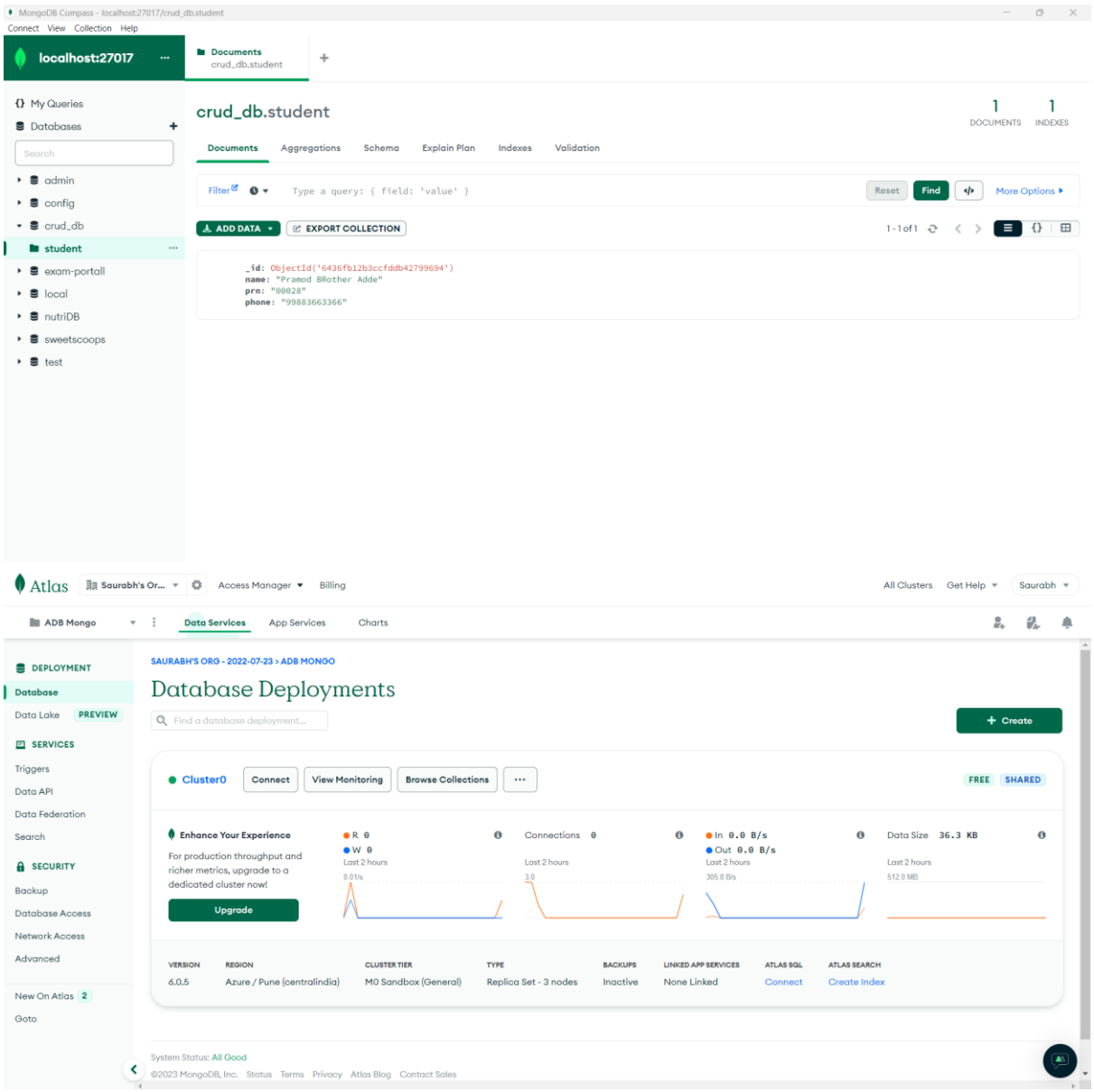
Install MongoDB On Windows

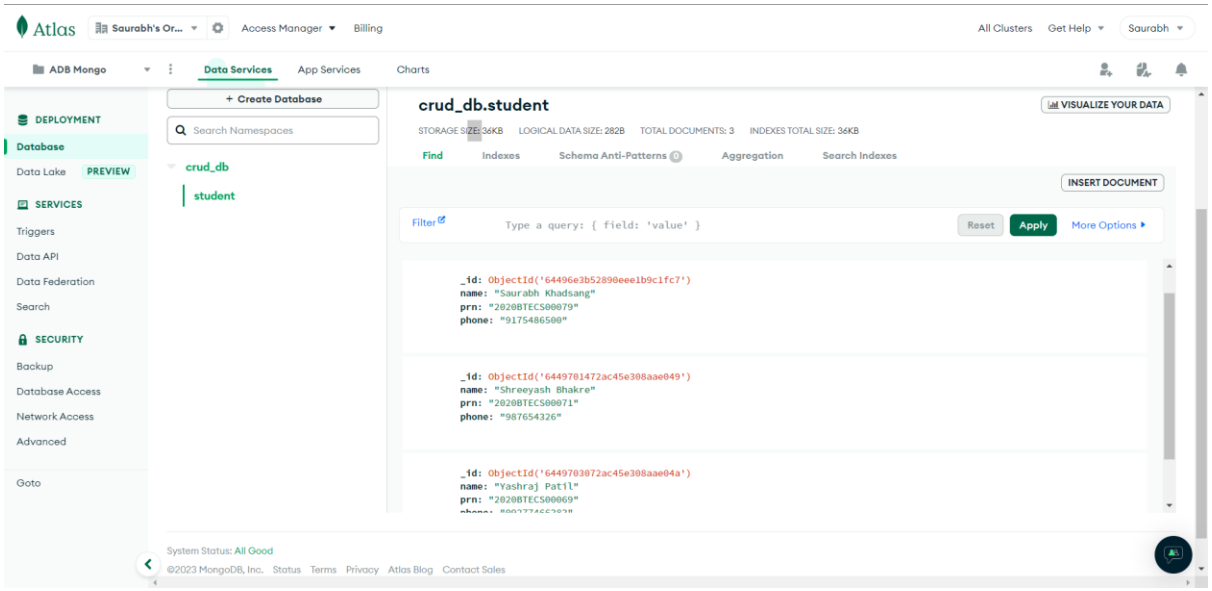
- Download the latest version of MongoDB from the official website: https://www.mongodb.com/try/download/community
- Run the installer and choose the "Complete" installation option.
- Accept the license agreement and choose the installation directory. The default directory is C:\Program Files\MongoDB\Server\{{version}}.
- Choose the options to install MongoDB as a Windows service and to start the service automatically.
- Click on "Install" and wait for the installation process to complete.
- Once the installation is complete, navigate to the MongoDB installation directory in a command prompt. For example, if you chose the default installation directory, you would run:
- cd C:\Program Files\MongoDB\Server\{{version}}\bin
- where {{version}} is the version of MongoDB you installed.
- To start the MongoDB server, run the following command:
  mongod.exe
- The MongoDB server should start running and output logs to the console. Keep the console window open while you use MongoDB.

- To interact with MongoDB, open another command prompt and navigate to the MongoDB installation directory's bin folder, as shown in step 6.

- Run the following command to start the MongoDB shell:

- Copy code
- mongo.exe
- You should now be able to use the MongoDB shell to interact with MongoDB.




Atlas
Saurabh's Or...
Access Manager
Billing
All Clusters
Get Help
Saurabh
ADB Mongo
Data Services
App Services
Charts
DEPLOYMENT
Database
Data Lake
PREVIEW
SERVICES
Triggers
Data API
Data Federation
Search
SECURITY
Backup
Database Access
Network Access
Advanced
Goto
+ Create Database
Search Namespaces
crud_db
student
crud_db.student
VISUALIZE YOUR DATA
STORAGE SIZE: 36KB
LOGICAL DATA SIZE: 282B
TOTAL DOCUMENTS: 3
INDEXES TOTAL SIZE: 36KB
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Indexes
Schema Anti-Patterns
Aggregation
Search Indexes
INSERT DOCUMENT
Filter
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Reset
Apply
More Options
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name: "Saurabh Khadsang"
prn: "2020BTECS00079"
phone: "9175486500"
_id: ObjectId('6449701472ac45e308aae049')
name: "Shreeyash Bhakre"
prn: "2020BTECS00071"
phone: "987654326"
_id: ObjectId('6449703072ac45e308aae04a')
name: "Yashraj Patil"
prn: "2020BTECS00069"
System Status: All Good
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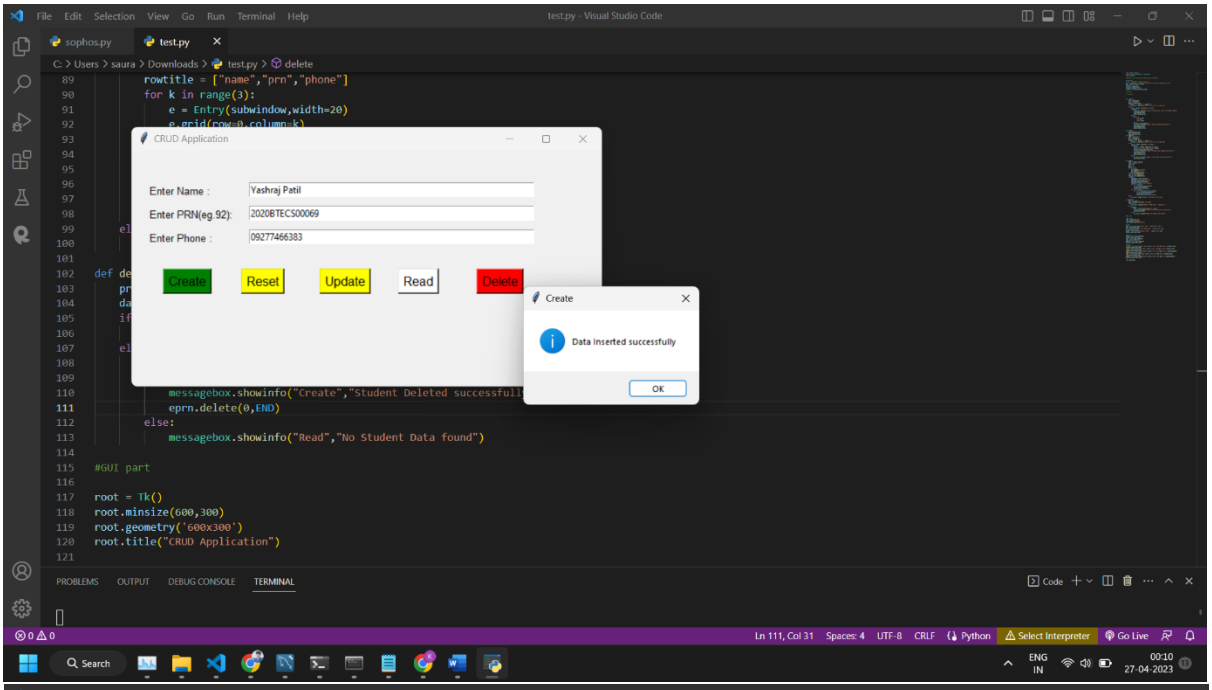
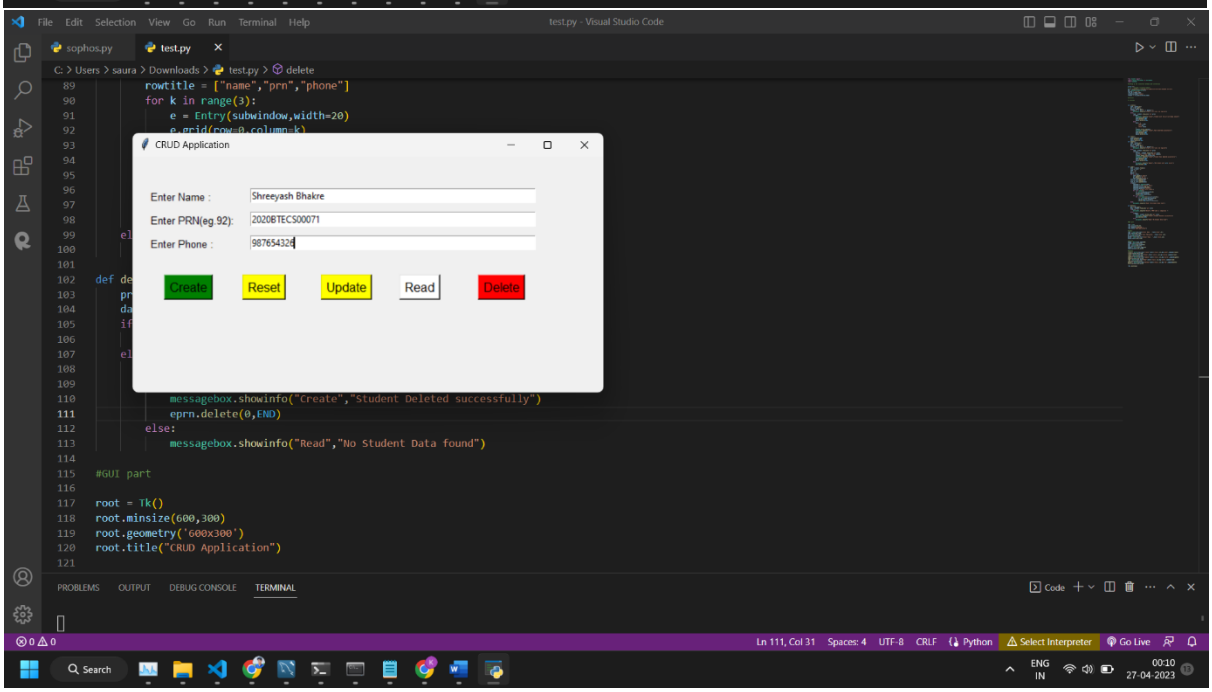
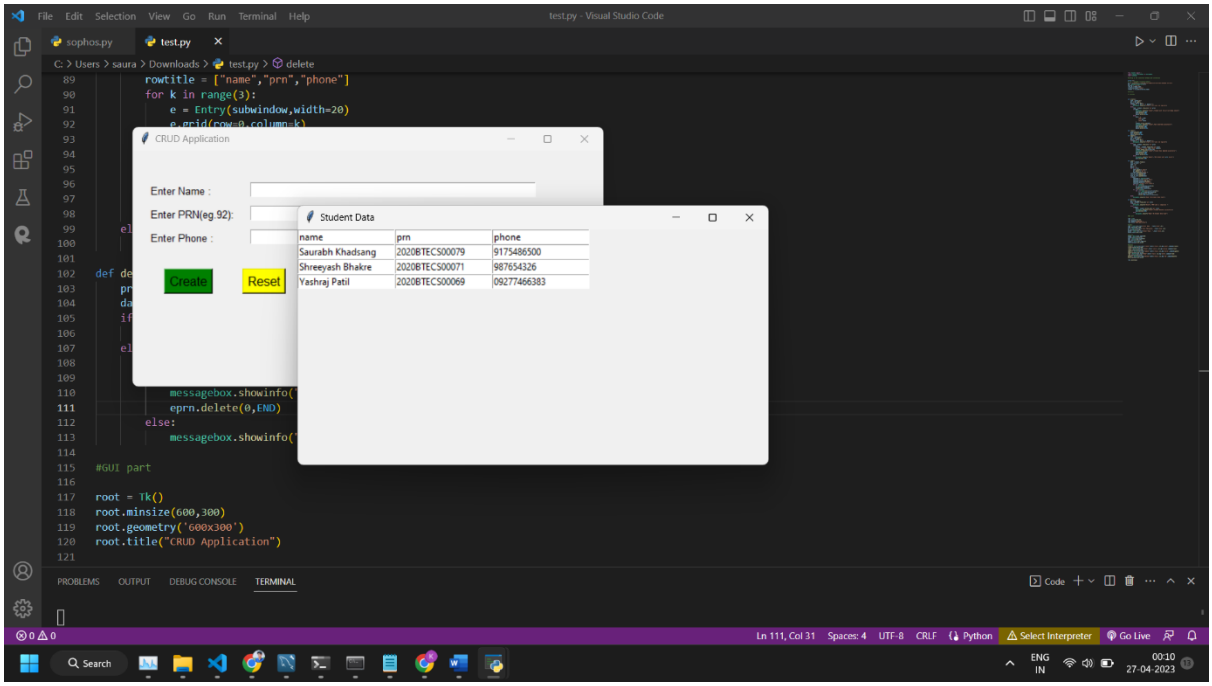

CRUD Application
Enter Name :
Yashraj Patil
Enter PRN(eg.92):
2020BTECS00069
Enter Phone :
09277466383
Create
Reset
Update
Read
Delete
Create
Data Inserted successfully
OK
messagebox.showinfo("Create","Student Deleted successfull
eprn.delete(0,END)
messagebox.showinfo("Read","No Student Data found")
#GUI part
root = Tk()
root.minsize(600,300)
root.geometry('600x300')
root.title("CRUD Application")
PROBLEMS
OUTPUT
DEBUG CONSOLE
TERMINAL
Ln 111, Col 31
Spaces: 4
UTF-8
CRLF
Python
Select Interpreter
Go Live
Search
ENG
IN
00:10
27-04-2023


CRUD Application
Enter Name :
Shreeyash Bhakre
Enter PRN(eg.92):
2020BTECS00071
Enter Phone :
987654328
Create
Reset
Update
Read
Delete
messagebox.showinfo("Create","Student Deleted successfully")
eprn.delete(0,END)
messagebox.showinfo("Read","No Student Data found")
#GUI part
root = Tk()
root.minsize(600,300)
root.geometry('600x300')
root.title("CRUD Application")
PROBLEMS
OUTPUT
DEBUG CONSOLE
TERMINAL
Ln 111, Col 31
Spaces: 4
UTF-8
CRLF
Python
Select Interpreter
Go Live
Search
ENG
IN
00:10
27-04-2023



B] CassandraDB

Install CassandraDB On Windows

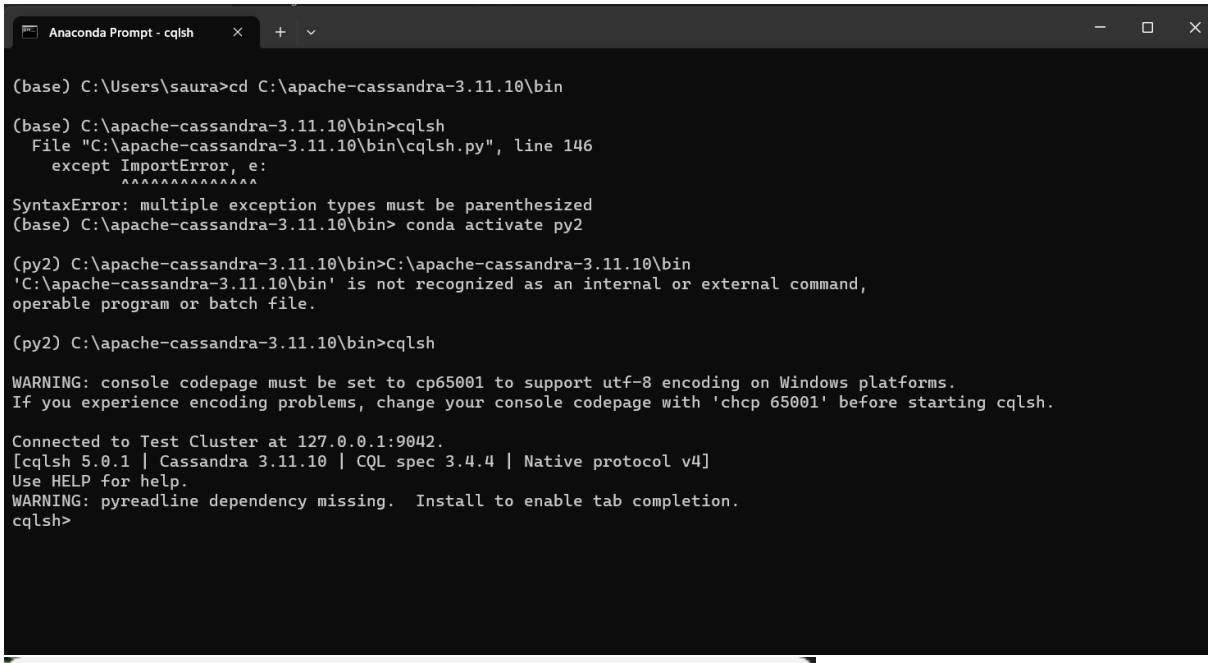
- Download the latest version of Apache Cassandra from the official website: https://cassandra.apache.org/download/

- Extract the downloaded archive to a folder of your choice, e.g. C:\apache-cassandra-3.0.28.

- Add the C:\apache-cassandra-3.0.28\bin directory to your system's PATH environment variable. This will allow you to run Cassandra from any command prompt.

- Open command prompt and run the following command to star Cassandra: Wait for Cassandra to start up. You should see some output in the command prompt window indicating that Cassandra has started.

- Run the following command to start the Cassandra command-line interface (CLI):

  You should now be able to use the CLI to interact with Cassandra.

- That's it! You now have Apache Cassandra installed and running on your Windows system.