Implementing web application

Create IBM db2 and connect with Python

Date	5 November 2022
Team Id	PNT2022TMID53102
Project Name	Skill/job Recommender Application
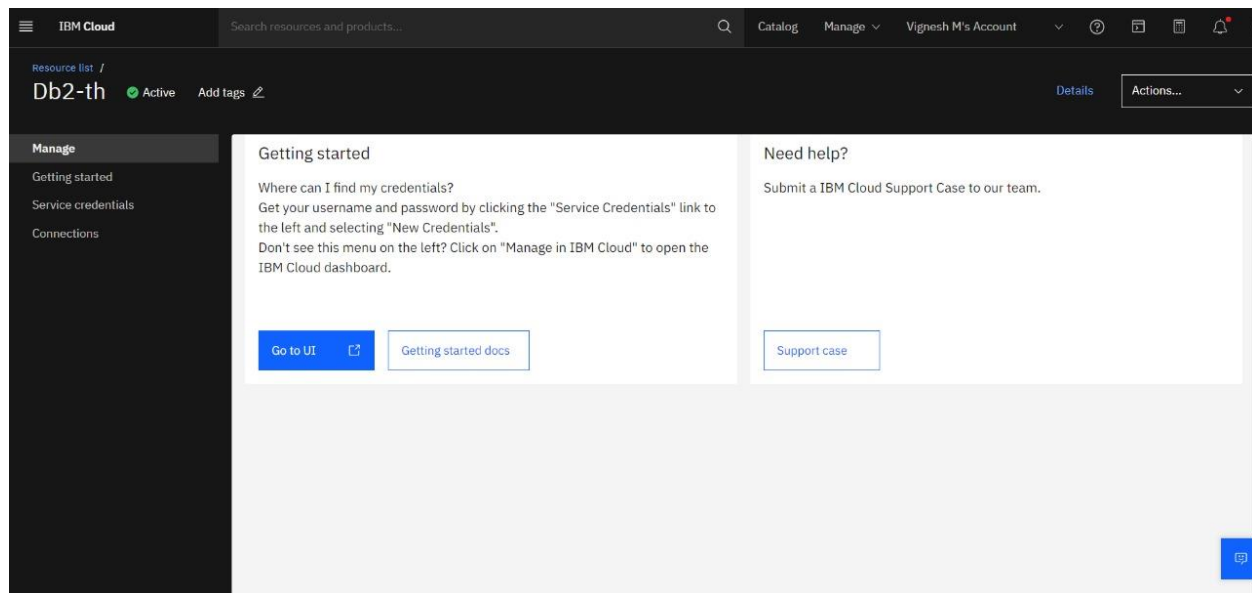
STEP 1: Import the ibm_db Python library:
!pip install --force-reinstall ibm_db==3.1.0 ibm_db_sa==0.3.7 importibm_db

STEP 2: Identify the database connection credentials:
dsn_hostname = "2d46b6b4-cbf6-40eb-bbce-6251e6ba0300.bs2io90l08kqb1od8lcg.databases.appdomain.cloud"
dsn_uid = "vjd29721"   dsn_pwd = "6TTgx8MRBzT45o3q" dsn_driver = "{IBM DB2 ODBC DRIVER}" dsn_database = "BLUDB"# e.g. "BLUDB" dsn_port = "32328" # e.g. "32733"
dsn_protocol = "TCPIP"   # i.e. "TCPIP" dsn_security = "SSL" #i.e. "SSL"

STEP 3: Create the DB2 database connection:
dsn = (
"DRIVER={0};"
"DATABASE={1};"
"HOSTNAME={2};"

```python
"PORT={3};"
"PROTOCOL={4};"
"UID={5};"
"PWD={6};"
"SECURITY={7};").format(dsn_driver, dsn_database, dsn_hostname, dsn_port,
dsn_protocol,dsn_uid, dsn_pwd,dsn_security) print(dsn)
```

Now establish the connection to the databasetry:

```python
conn = ibm_db.connect(dsn, "", "")
print ("Connected to database: ", dsn_database, "as user:", dsn_uid, "on host: ",
dsn_hostname)
except:
print ("Unable to connect: ", ibm_db.conn_errormsg() ) server =
ibm_db.server_info(conn)

print  ("DBMS_NAME:     ", server.DBMS_NAME)print ("DBMS_VER: ",
server.DBMS_VER) print ("DB_NAME: ", server.DB_NAME)

client = ibm_db.client_info(conn)

print ("DRIVER_NAME:          ", client.DRIVER_NAME) print("DRIVER_VER:
          ", client.DRIVER_VER) print ("DATA_SOURCE_NAME: ",
client.DATA_SOURCE_NAME) print ("DRIVER_ODBC_VER:        ",
client.DRIVER_ODBC_VER)
print ("ODBC_VER: ", client.ODBC_VER)
print ("ODBC_SQL_CONFORMANCE: ", client.ODBC_SQL_CONFORMANCE) print
("APPL_CODEPAGE:         ", client.APPL_CODEPAGE) print("CONN_CODEPAGE:
       ", client.CONN_CODEPAGE)
```
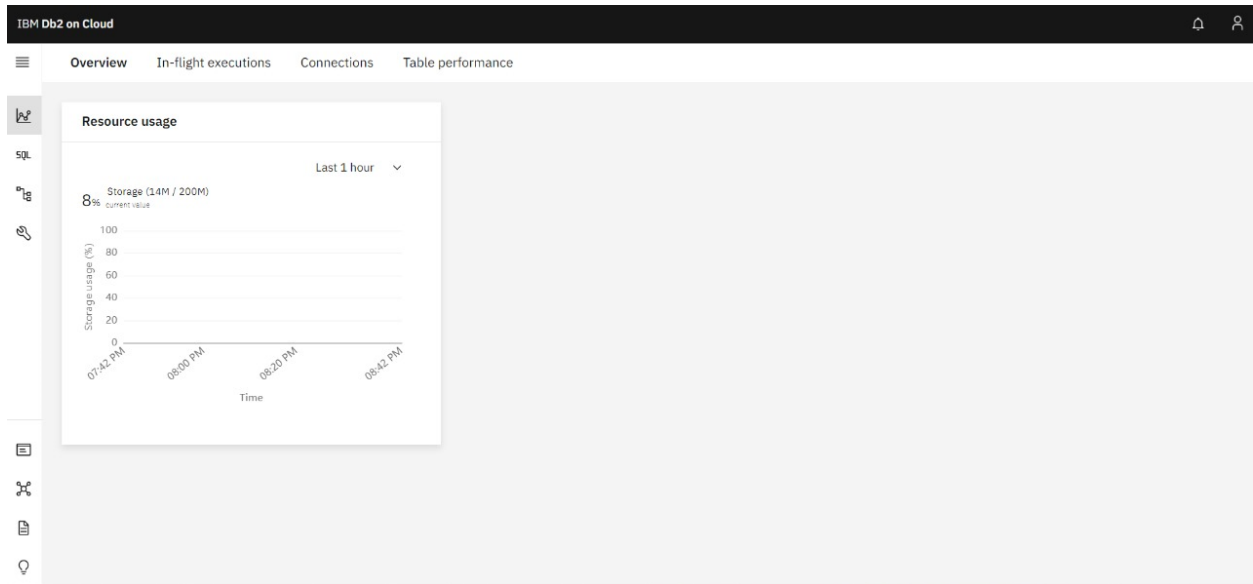
STEP 4: Close the Connection:

```python
ibm_db.close(conn)
```

Overview   In-flight executions   Connections   Table performance

Resource usage

Last 1 hour ⌄

8% Storage (14M / 200M)
current value

Storage usage (%)

100
80
60
40
20
0

07:42 PM   08:00 PM   08:20 PM   08:42 PM

Time

Load Data   Load History   **Tables**   Views   Indexes   Aliases   MQTs   Sequences   Application objects

Find schemas or tables   Refresh ↻

Tables   New table   +   ▽ ⇕ ⋮ ✕

Name ▾	Schema	Properties
☐ USER	YMD42279	...

Total: 1, selected: 0

Table definition   ⋮ ✕

USER   No statistics available

Name	Data type	Nullable	Length	Scale	
USERNAME	VARCHAR	Y	32	0	👁
EMAIL	VARCHAR	Y	32	0	👁
PHONE_NUMBER	VARCHAR	N	32	0	👁
PASSWORD	VARCHAR	Y	32	0	👁
PIN	VARCHAR	Y	32	0	👁

View data

YMD42279.USER

Back

Export to CSV ↓

USERNAME	EMAIL	PHONE_NUMBER	PASSWORD	PIN
Vignesh19128@cse.ssn.edu.in	vicky	9150659905		1234
rishi123@gmail.com	rishi	5608536460	123456789	123456