**IMPLEMENTING WEB APPLICATION**

**CREATE IBM DB2 AND CONNECT WITH PYTHON**

|  |  |
| --- | --- |
| Date | 15 November 2022 |
| Team ID | PNT2022TMID20598 |
| Project Name | Skill / Job Recommender-Cloud Application Development |
| Maximum Marks | 4 Marks |

# STEP 1: Import the ibm\_db Python library:

!pip install --force-reinstall ibm\_db==3.1.0 ibm\_db\_sa==0.3.7   
import ibm\_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};"

"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 database:**

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:

ibm\_db.close(conn)