STEPS TO CREATE IBM DB2 AND CONNECTION WITH PYTHON

Date	07 November 2022
Team ID	PNT2022TMID38912
Project Name	Skills/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

import ibm_db

STEP 2: Identify the database connection credentials:

dsn_hostname = "1bbf73c5-d84a-4bb0-85b9-ab1a4348f4a4.c3n41cmd0nqnrk39u98g.databases.appdomain.cloud"

dsn_uid = "hjc34481"   dsn_pwd = "9aga96f1Yfz1K9Jd"

dsn_driver = "{IBM DB2 ODBC DRIVER}" dsn_database =

"BLUDB" # e.g. "BLUDB" dsn_port = "32286"   # 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 try:

```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)
```