STEPS TO CREATE IBM DB2 AND CONNECTION WITH PYTHON

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Project Name	News Tracker 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 = "2d46b6b4-cbf6-403b-bbce-6251e6ba0300.bs2io90l08kqb1od8lcg.databases.appdomain.cloud"

dsn_uid = "vjd29721" dsn_pwd = "6TTgx8MRBzT45o3q"

dsn_driver = "{IBM DB2 ODBC DRIVER}" dsn_databse="BLUDB"

e.g. "BLUDB" dsn_port = "32328"   # e.g. "32733"

dsn_protocol = "TCPIP" # i.e. "TCPIP" dsn_security = "SSL"

e.g. "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:

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)

printf("CONN_CODEPAGE: ", client.CONN_CODEPAGE)

STEP 4: Close the connection:

ibm_db.close(conn)