# STEPS TO CREATE IBM DB2 AND CONNECTION WITH PYTHON TEAM ID: PNT2022TMID12441

## 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
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)
                                      ("DATA_SOURCE_NAME:
                          print
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)