STEPS TO CREATE IBM DB2 AND CONNECTION WITH PYTHON TEAM ID:PNT2022TMID48636

STEP 1: Import the ibm_db Python library:

!pip install --force-reinstall ibm_db==3.1.0 ibm_db_sa==0.3.7import ibm_db

STEP 2: Identify the database connection credentials:

dsn_hostname = "b70af05b-76e4-4bca-a1f5-23dbb4c6a74e.c1ogj3sd0tgtu0lqde00.databases.appdomain.cloud"

dsn_uid = "fky48622" dsn_pwd = "32716" 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 = "DigicertGlobalRootCA (1).crt" #i.e. "SSL"

STEP 3: Create the DB2 database connection:

dsn = (

"DRIVER={0};"

"DATABASE={1};"

"HOSTNAME={2};"

"PORT={3};"

```python
"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:

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