STEPS TO CREATE IBM DB2 AND CONNECTION WITH PYTHON

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 = "fbd88901-ebdb-4a4f-a32e-9822b9fb237b.c1ogj3sd0tgtu0lqde00.databases.appdomain.cloud"

dsn_uid = "wxs77796" dsn_pwd = "fv1zsnR7cf2LCSA3"

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

e.g. "BLUDB" dsn_port = "32731" 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) 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)
```