STEPS TO CREATE IBM DB2 AND CONNECTION WITH PYTHON
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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 = "b70af05b-76e4-4bca-a1f5

23dbb4c6a74e.c1ogj3sd0tgtu0lqde00.databases.appdomain.cloud"

dsn_uid = "mcp42986" dsn_pwd = "7jL8xip5KD9UjxHo"

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

databasetry:

  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())

```python
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)
```