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 = "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};"

```python
    "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

```python
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() )
```

```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)
```