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="824dfd4d-99de-440d-9991-

629c01b3832d.bs2io90l08kqb1od8lcg.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 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() )
```

```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)
```