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 = "rvl70320"   dsn_pwd = "RMAKYfhFtGdyfFMY"

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)
```