# CREATE IBM DB2 AND CONNECT 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:

### STEP 3: Create the DB2 database connection:

try:

```
dsn = (

"DRIVER={0};"

"DATABASE={1};"

"HOSTNAME={2};"

"PORT={3};"

"PROTOCOL={4};"

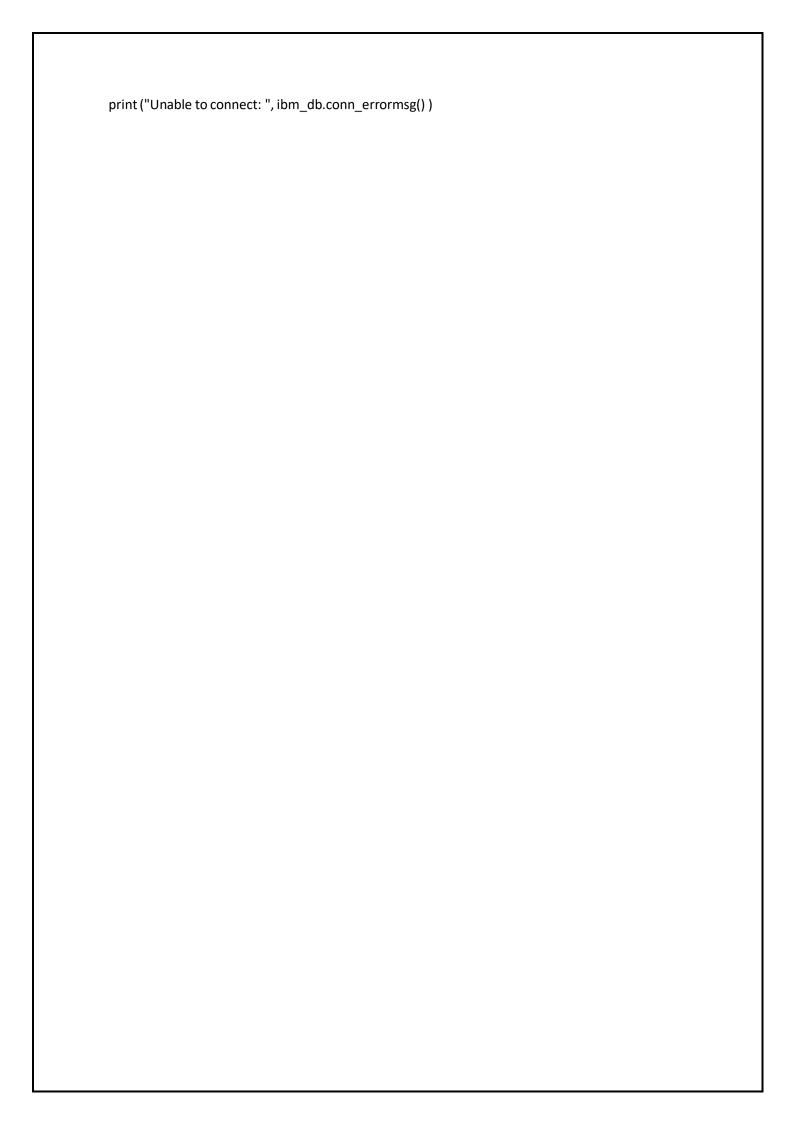
"UID={5};"

"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
```

conn = ibm_db.connect(dsn, "", "")	) print ("Connected to database: ", dsn_database, "as user:
", dsn_uid, "on host: ", dsn_hostnam	ne)
except:	



```
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)