

# NEWS TRACKER APPLICATION

## *STEPS TO CREATE IBM DB2 AND CONNECTION WITH PYTHON:*

### **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};"
"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() )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)

```