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)
```