STEPS TO CREATE IBM DB2 AND CONNECTION WITH PYTHON

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Project Name	**NEWS TRACKER APPLICATION**

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)
```