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-cbf6-403b-bbce-6251e6ba0300.bs2io90l08kqb1od8lcg.databases.appd

omain.cloud" dsn_uid = "vjd29721" dsn_pwd =

"6TTgx8MRBzT4503q"

dsn_driver = "{IBM DB2 ODBC DRIVER}"

dsn_databse="BLUDB" # e.g. "BLUDB" dsn_port =

"32328"   # e.g. "32733"

dsn_protocol = "TCPIP" # i.e. "TCPIP"

dsn_security = "SSL" # e.g. "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: ",
```

```python
client.DRIVER_ODBC_VER) print("ODBC_VER: ",

client.ODBC_VER)

print("ODBC_SQL_CONFORMANCE: ",

client.ODBC_SQL_CONFORMANCE) print("APPL_CODEPAGE: ",

client.APPL_CODEPAGE)

printf("CONN_CODEPAGE:  ", client.CONN_CODEPAGE)
```

STEP 4: Close the

connection:

```python
ibm_db.close(conn)
```