## STEPS TO CREATE IBM DB2 AND CONNECTION WITH PYTHON

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Project Name	News Tracker Application

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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:
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:
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conn = ibm db.connect(dsn, "", "") print ("Connected to database: ", dsn_database, "as
", 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)
```

