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

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| Project Name | PERSONAL EXPENSE 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 = "fbd88901-ebdb-4a4f-a32e- 9822b9fb237b.c1ogj3sd0tgtu0lqde00.databases.appdomain.cloud"

dsn\_uid = "wxs77796" dsn\_pwd = "fv1zsnR7cf2LCSA3" dsn\_driver = "{IBM DB2 ODBC DRIVER}" dsn\_database = "BLUDB" # e.g. "BLUDB" dsn\_port = "32731" 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)