## Project Name: Personal Expense Tracker Team ID: PNT2022TMID11679

# CREATING 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-bbce6251e6ba0300.bs2io90l08kqb1od8lcg.databases.appdomain.clou d" 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)