CREATING IBM DB2 AND CONNECTION WITH PYTHON

Team ID	PNT2022TMID01701
Project Name	Personal expense Tracker Application

Team Leader : DHANISH

Team member : GUGHAN

Team member : DHINESH KUMAR

Team member : ASHWIN

STEPS TO CREATE 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-bbce
6251e6ba0300.bs2io90l08kqb1od8lcg.databases.appdomain.cloud"
dsn_uid = "vjd29721" dsn_pwd = "6TTgx8MRBzT45o3q"

dsn_driver = "{IBMDB2ODBCDRIVER}"

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 toconnect: ",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)
```

```python
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:

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