CREATING IBM DB2 AND CONNECTION WITH PYTHON

ASSIGNMENT DONE BY:

Team Id: PNT2022TMID40676

VICHITHRA M(610919104096)

AMBIKA S(610919104001)

ANITHA M (61091910405)

ARUNA M(610919104014)

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 = "{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)
```