STEPS TO CREATE IBM DB2 AND CONNECTION WITH PYTHON PNT2022TMID03852

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:

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 databasetry:

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)