STEPS TO CREATE IBM DB2 AND CONNECTION WITH PYTHON TEAM ID: PNT2022TMID50222

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 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
                                  ", client.DRIVER VER) print
("DRIVER VER:
("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)