

STEPS TO CREATE IBM DB2 AND CONNECTION WITH PYTHON

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Project Name	Plasma Donor Application

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:

```
hostname": "55fbc997-9266-4331-afd3-  
888b05e734c0.bs2io90l08kqb1od8lqg.databases.appdomain.cloud",  
dsn_uid="tlk28900" dsn_pwd="uq84umWJgJHoEaMY" dsn_driver = "{IBM DB2 ODBC  
DRIVER}""port": 31929
```

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)
("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)
```