STEPS TO CREATE IBM DB2 AND CONNECTION WITH PYTHON

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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 = "0c77d6f2-5da9-48a9-81f8-86b520b87518.bs2io90l08kqb1od8lcg.databases.appdomain.cloud"
dsn_uid = "tjp74019"
dsn_pwd = "3aZff8OVWfJ5cqpk"
dsn_driver = "{IBM DB2 ODBC DRIVER}"
dsn_database = "BLUDB"
dsn_port = "31198"
dsn_protocol = "TCPIP"
dsn_security = "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)
```

```python
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:

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