

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 = "2d46b6b4-cbf6-40eb-bbce-  
6251e6ba0300.bs2io90l08kqb1od8lcg.databases.appdomain.cl  
oud"
```

```
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)
```