

# STEPS TO CREATE IBM DB2 AND CONNECTION WITH PYTHON

## 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="b1bc1829-6f45-4cd4-bef4-  
10cf081900bf.c1ogj3sd0tgtu0lqde00.databases.appdomain.cloud"
```

```
uid="bfc78863"
```

```
pwd="asffv3iXKrFIBru6"
```

```
driver="{IBM DB2 ODBC DRIVER}"
```

```
db="bludb"
```

```
port="32304"
```

```
protocol="TCPIP"
```

```
cert="Certificate.crt"
```

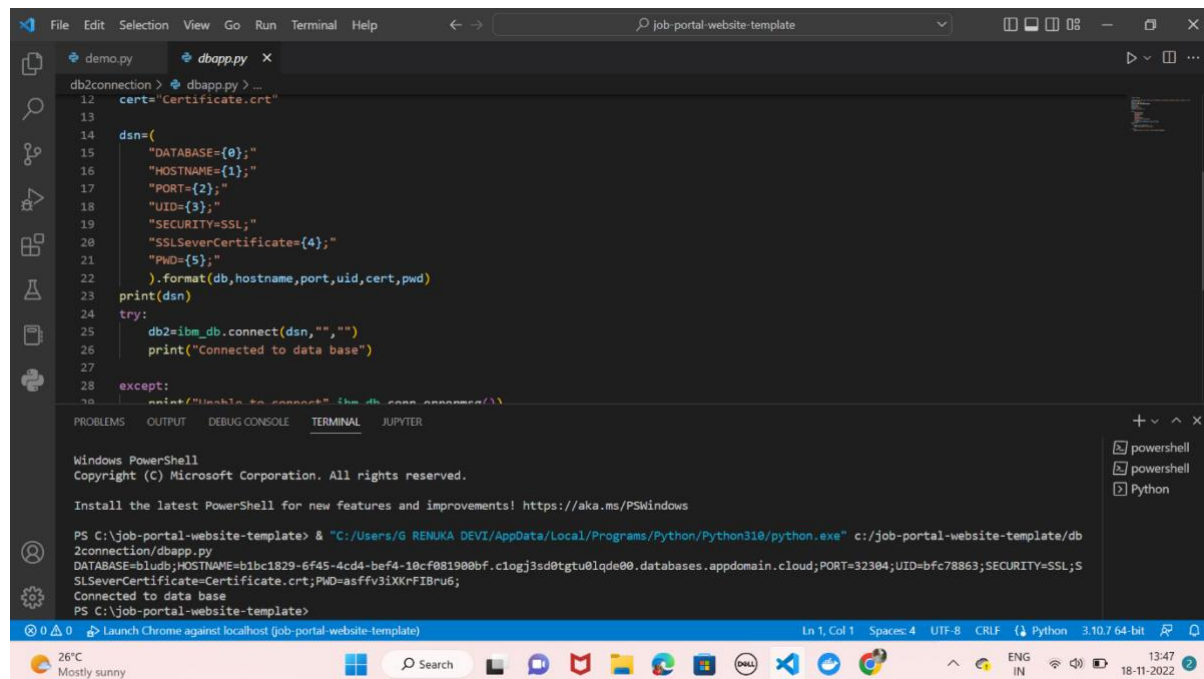
### **STEP 3: Create the DB2 database connection:**

```
dsn=(  
"DATABASE={0};"  
"HOSTNAME={1};"  
"PORT={2};"  
"UID={3};"  
"SECURITY=SSL;"  
"SSLSeverCertificate={4};"  
"PWD={5};"  
)  
.format(db,hostname,port,uid,cert,pwd)  
print(dsn)  
try:  
db2=ibm_db.connect(dsn,"","")  
print("Connected to data base")  
except:  
print("Unable to connect",ibm_db.conn_errormsg())
```

## STEP 4: Close the Connection:

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

## Output



The screenshot displays a Jupyter Notebook interface with a file named `dbapp.py` open. The code in the notebook defines a DSN and attempts to connect to an IBM DB2 database. Below the code editor, the `TERMINAL` tab shows the execution of the script using PowerShell. The output of the script is visible in the terminal, showing the DSN details and a successful connection message.

```
db2connection > dbapp.py > ...
12 cert="Certificate.crt"
13
14 dsn=(
15     "DATABASE={0};"
16     "HOSTNAME={1};"
17     "PORT={2};"
18     "UID={3};"
19     "SECURITY=SSL;"
20     "SSLServerCertificate={4};"
21     "PWD={5};"
22     ).format(db,hostname,port,uid,cert,pwd)
23 print(dsn)
24 try:
25     db2=ibm_db.connect(dsn,"","")
26     print("Connected to data base")
27
28 except:
29     print("Unable to connect", ibm_db_err,appname/33)

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL JUPYTER

Windows PowerShell
Copyright (C) Microsoft Corporation. All rights reserved.

Install the latest PowerShell for new features and improvements! https://aka.ms/PSWindows

PS C:\job-portal-website-template> & "C:/Users/G RENUKA DEVI/AppData/Local/Programs/Python/Python310/python.exe" c:/job-portal-website-template/db
2connection/dbapp.py
DATABASE=bludb;HOSTNAME=b1bc1829-6f45-4cd4-bef4-10cf081900bf.clogj3sd0tgtu0lqde00.databases.appdomain.cloud;PORT=32304;UID=bfc78863;SECURITY=SSL;S
SLServerCertificate=Certificate.crt;PWD=asffv31XKrFI8ru6;
Connected to data base
PS C:\job-portal-website-template>
```