

# 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"
```

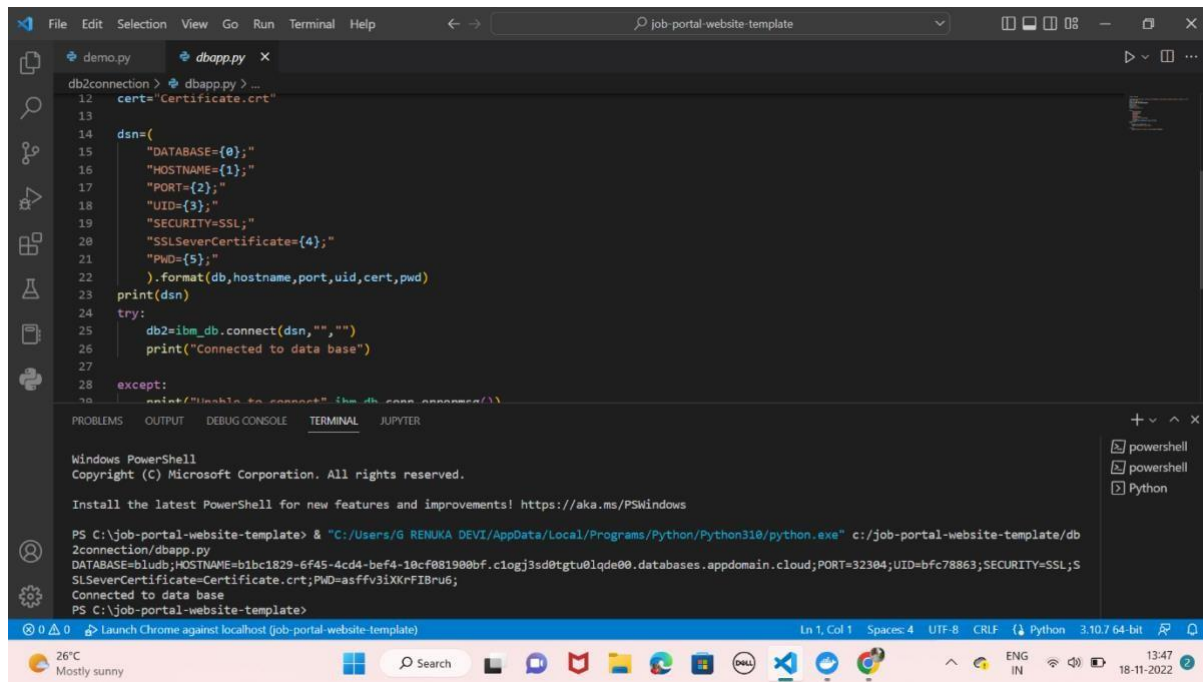
### **STEP 3: Create the DB2 database connection:**

```
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 explorer on the left showing 'demo.py' and 'dbapp.py'. The main editor area contains a Python script for connecting to a database. The script defines a DSN, attempts to connect using `ibm_db.connect()`, and prints the connection status. The output pane shows the successful connection message. Below the notebook, a PowerShell terminal window shows the command to run the script, the output of the script, and the final prompt.

```
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.error_message())
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL JUPYTER

Windows PowerShell  
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PS C:\job-portal-website-template> & "C:/Users/G RENUKA DEVI/AppData/Local/Programs/Python/Python310/python.exe" c:/job-portal-website-template/db2connection/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>

Ln 1, Col 1 Spaces: 4 UTF-8 CRLF Python 3.10.7 64-bit

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