

CREATE IBM DB2 AND CONNECT WITH PYTHON

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Project Name	PERSONAL EXPENSE TRACKER 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:

```
dsn_hostname = " 9938aec0-8105-433e-8bf9-  
0fbb7e483086.clogj3sd0tgtu0lqde00.databases.appdomain.cloud''  
" dsn_uid = "vpq40294"          dsn_pwd = "2LZdL55bbMzhzKmr"  
dsn_driver = "{IBM DB2 ODBC DRIVER}" dsn_database = "BLUDB" # e.g. "BLUDB" dsn_port =  
"32459" dsn_protocol = "TCPIP" # i.e. "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)
```

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)
```

```
mike.py > signup
1 from flask import Flask, render_template, request, redirect, session
2 import ibm_db
3 conn = ibm_db.connect("DATABASE=bludb;HOSTNAME=9938aec0-8105-433e-8bf9-0fbb7e483086.c1ogj3sd0tgtu0lqde00.databases.appdomain.cloud;PORT=3
4 import re
5 app = Flask(__name__)
6 app.secret_key = 'a'
7 #HOME--PAGE
8 @app.route("/home")
9 def home():
10     return render_template("homepage.html")
11 @app.route("/")
12 def add():
13     return render_template("home.html")
14 #IGN--UP--OR--REGISTER
15 @app.route("/signup")
16 def signup():
17     return render_template("signup.html")
18
```