

CREATING IBM DB2 AND CONNECTION WITH PYTHON

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Project Name	Personal expense Tracker Application

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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:

```
dsn_hostname = "2d46b6b4-cbf6-40eb-bbce
```

```
6251e6ba0300.bs2io90l08kqb1od8lcg.databases.appdomain.cloud"
```

```
dsn_uid = "vjd29721" dsn_pwd = "6TTgx8MRBzT45o3q"
```

```
dsn_driver = "{IBMDB2ODBCDRIVER}"
```

```
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 toconnect: ",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)
```