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.cloud"

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)
```