STEPS TO CREATE IBM DB2 AND CONNECTION
WITH PYTHON

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Project Name	Skill and Job Recommender Application

STEP 1: Import the ibm_db Python library:

```
!pip install --force-reinstall ibm_db==3.1.0

ibm_db_sa==0.3.7 importibm_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

databasetry:

conn = ibm_db.connect(dsn, "", "")      print ("Connected to database: ", dsn_database, "as

user:", dsn_uid, "on host: ", dsn_hostname)
```

```python
    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:

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