

STEPS TO CREATE IBM DB2 AND CONNECTION WITH PYTHON

Date	11 NOV 2022
Team ID	PNT2022TMID08681
Project Name	Smart fashion 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 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:

```
bm_db.close(conn)
```

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