Create IBM DB2 and Connect with Python

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Project	Inventory Management System for Retailers

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 = "98538591-7217-4024-b027-8baa776ffad1.c3n41cmd0nqnrk39u98g.databases.appdomain.cloud"

dsn_uid = "xwb32247"

dsn_pwd = "XLpYFeILredyL6gF"

dsn_driver = "{IBM DB2 ODBC DRIVER}"

dsn_database = "BLUDB"

e.g. "BLUDB" dsn_port = "30875

dsn_protocol = "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

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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:

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ibm_db.close (conn)
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STEP 5:

Thus the IBM DB2 is created and connected with python.