STEPS TO CREATE IBM DB2 AND CONNECTION WITH PYTHON

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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)

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except:
    print ("Unable to connect: ", ibm_db.conn_errormsg() )
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```
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)
```