STEPS TO CREATE IBM DB2 AND CONNECTION WITH PYTHON

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Project Name	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 = "hostname"
dsn_uid = "uid"
dsn_pwd = "pwd"
dsn_driver = "{IBM DB2 ODBC DRIVER}"
dsn_database = "BLUDB" # e.g. "BLUDB"
dsn_port = "port" # 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
                            ", client.DRIVER_ODBC_VER) print
("DRIVER_ODBC_VER:
("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)
```