

# IMPLEMENTING WEB APPLICATION

## Create IBM DB2 and Connect with Python

Date	15 November 2022
Team ID	PNT2022TMID34419
Project Name	Inventory Management System for Retailers

The screenshot displays the IBM Db2 on Cloud web interface. The browser address bar shows the URL: `bpe61bfd0365e9u4psdglite.db2.cloud.ibm.com/crm%3Av1%3Abluemix%3Apublic%3Adashdb-for-transactions%3Aus-south%3Aa%2F6f0348bea55d4...`. The interface has a dark header with the text "IBM Db2 on Cloud" and a navigation bar with tabs: "Load Data", "Load History", "Tables", "Views", "Indexes", "Aliases", "MQTs", "Sequences", and "Application objects". The "Tables" tab is selected. Below the navigation bar, there is a search bar labeled "Find schemas or tables" and a "Refresh" button. The main content area is divided into two panels: "Schemas" and "Tables". The "Schemas" panel shows a table with columns "Name", "Type", and "Tables". It contains one entry: "KRH91100" of type "User" with 4 tables. The "Tables" panel shows a table with columns "Name", "Schema", and "Properties". It contains four entries: "BILLING", "PRODUCTS", "STUDENTS", and "USERS", all under the "KRH91100" schema. A "New table" button is visible in the top right of the "Tables" panel. The bottom of the screenshot shows the Windows taskbar with the search bar, task view button, and various application icons. The system clock shows 13:55 on 17-11-2022.

IBM Db2 on Cloud

Load Data Load History **Tables** Views Indexes Aliases MQTs Sequences Application objects

Find schemas or tables Refresh

**Schemas**

Name	Type	Tables
KRH91100	User	4

Total: 1, selected: 1

**Tables**

Name	Schema	Properties
BILLING	KRH91100	...
PRODUCTS	KRH91100	...
STUDENTS	KRH91100	...
USERS	KRH91100	...

Total: 4, selected: 0

Task View

Type here to search

30°C 13:55 17-11-2022

## SOURCE CODE:

```
dsn_hostname = "9938aec0-8105-433e-8bf9-
0fbb7e483086.c1ogj3sd0tgtu0lqde00.databases.appdomain.cloud" # e.g.:
"54a2f15b-5c0f-46df-8954-
7e38e612c2bd.c1ogj3sd0tgtu0lqde00.databases.appdomain.cloud"
dsn_uid = "krh91100"      # e.g. "abc12345"
dsn_pwd = "gSPyVtDpdim5wKGL"    # e.g. "7dBZ3wWt9XN6$o0J"

dsn_driver = "{IBM DB2 ODBC DRIVER}"
dsn_database = "bludb"      # e.g. "BLUDB"
dsn_port = "32459"         # e.g. "32733"
dsn_protocol = "TCPIP"     # i.e. "TCPIP"
dsn_security = "SSL"       #i.e. "SSL"

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)

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() )

select="select * from users"
stm=ibm_db.exec_immediate(conn,select)
while ibm_db.fetch_row(stm) != False:

    print(ibm_db.result(stm,1))
```

