

Ideation Phase

Implementing Web Application

Team ID	PNT2022TMID13990
Project Name	Project - Personal Expense Tracker Application

Create IBM DB2 and Connect with Python

IBM DB2:

The screenshot shows the IBM Db2 on Cloud console. The 'Resource usage' tab is active, displaying a graph of storage usage over time. A modal window titled 'Db2 on Cloud' is open, showing the following details:

- Name: crn:v1:bluemix:public:dashdb-for-transactions:us-south:a/3f4dc006be5e4bd9b1479bccbdf51aaa:0a26dcb7-aa07-430b-addc-1aa928b5e065::
- IBM Cloud hosting region: us-south
- Plan: Lite
- Description: A free plan to try or learn about Db2 without charge.
- Oracle compatibility: no
- Database version: 11.5.8.0.00000.015
- (C) Copyright IBM Corp. 2016, 2022

The screenshot shows the IBM Db2 on Cloud console with the 'Tables' tab selected. The 'Schemas' section shows a single schema named 'YBK70810' of type 'User'. The 'Tables' section shows a list of tables:

Name	Schema	Properties
<input type="checkbox"/> EXPENSE	YBK70810	...
<input type="checkbox"/> INCOME	YBK70810	...
<input type="checkbox"/> USER	YBK70810	...
<input type="checkbox"/> USERS	YBK70810	...

Total: 4, selected: 0

IBM Db2 on Cloud

Connections

Linux

PowerLinux

Mac

Windows

Instructions

1. Download Linux driver package

Download Linux driver package from [driver list](#)

File name:ibm_data_server_driver_package_linuxx64_v11.5.tar.gz (70 MB)

2. Run the following example commands to decompress the file

```
gunzip ibm_data_server_driver_package_linuxx64_v11.5.tar.gz
tar -xvf ibm_data_server_driver_package_linuxx64_v11.5.tar.gz
```

A dsdriver subdirectory is created.

3. Extract the Java and ODBC/CLI drivers by running the following command from the dsdriver directory:

```
./installDSDriver
```

Connection configuration resources

Host name: 9938aec0-8105-433e-8bf9-0fbb7e483086.c1ogj3sd0tgtu0lqde00.databases.appdomain.cloud

With SSL: Yes

Port number: 32459

Database name: bludb

User ID: <user name>

Password: *****

Version: Compatible with Db2, Version 11.5.0 or later

Download SSL Certificate

JDBC string

Connect with Python

```
connection.py x
connection.py > ...
1 import ibm_db
2
3 conn = ibm_db.connect("DATABASE=bludb;HOSTNAME=9938aec0-8105-433e-8bf9-0fbb7e483086.c1ogj3sd0tgtu0lqde00.databases.appdomain.cloud;PORT=32459;SECURITY=SSL;SSLServerCertificate=0
4
5 print(conn)
```

PROBLEMS

OUTPUT

DEBUG CONSOLE

TERMINAL

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Try the new cross-platform PowerShell <https://aka.ms/pscore6>

PS D:\IBM\Our Work\Preparation Phase\Assignment 2> & C:/Users/navee/AppData/Local/Programs/Python/Python37/python.exe "d:/IBM/Our Work/Preparation Phase/Assignment 2/connection.py"

<ibm_db.IBM_DBConnection object at 0x0000025E47C82930>

PS D:\IBM\Our Work\Preparation Phase\Assignment 2>