

Implementing Web Application

Create IBM DB2 And Connect with Python

Team ID	PNT2022TMID25132
Project Name	Project - Plasma Donor Application

Create the IBM Db2 service in the IBM cloud:

IBM Cloud

Search resources and products...

Catalog Manage Vasudevan R's Account

Category Databases

Plan	Features	Pricing
Lite	200 MB of data storage 5 simultaneous connections Shared multi-tenant system	Free
<p>The Free plan provides a free Db2 service for development and evaluation. The plan has a set amount of limitations as shown. You can continue using the free plan for as long as needed, however, users are asked to re-extend their free account every 90 days by email. If you do not re-extend, your free account is cleaned out a further 90 days later. This helps provide free resources for everyone.</p> <p>Lite plan services are deleted after 30 days of inactivity.</p>		
Standard	Instance with flexible scaling of compute and storage Base instance starts at 8 GB RAM x 20 GB Storage	\$0.136 USD/Instance-Hour \$0.00027 USD/Gigabyte-Hours \$0.097 USD/Virtual Processor Core-Hour \$0.00003 USD/BACKUP_GIGABYTE_HOURS \$0.0959 USD/SERVICEENDPOINT_INSTANCE_HOURS
Enterprise	Dedicated instance with flexible scaling of compute and storage Base instance starts at 4 vCPU x 16 GB RAM x 20 GB Storage Uses dedicated virtual machines	\$1.30 USD/Instance-Hour \$0.00027 USD/Gigabyte-Hours \$0.30 USD/Virtual Processor Core-Hour \$0.00003 USD/BACKUP_GIGABYTE_HOURS \$0.0959 USD/SERVICEENDPOINT_INSTANCE_HOURS

Related links:
[API docs](#)
[Docs](#)
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Summary

Db2 **Free**

Location: London

Plan: Lite

Service name: Db2-16

Resource group: Default

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The screenshot shows the IBM Cloud dashboard for a Db2-16 instance. The top navigation bar includes the IBM Cloud logo, a search bar, and links to 'Catalog', 'Manage', and the user's account 'Vasudevan R's Account'. The main content area is titled 'Getting started' and provides instructions on how to find credentials. A sidebar on the left contains links to 'Manage' and 'Connections'. A 'Support case' button is visible in the bottom right corner.

Service Details - IBM Cloud x https://identity-3.uk-south.iam.cl... +

cloud.ibm.com/services/dashdb-for-transactions/crm%3Av1%3Abluemix%3Apublic%3Adashdb-for-transactions%3Aeu-gb%3Aa%2F32f1eae557034e089e440003ecd3c8... ☆ ☆

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Resource list / Db2-16 Active Add tags Details Actions...

Manage

Getting started

Service credentials

Connections

Getting started

Where can I find my credentials?

Get your username and password by clicking the "Service Credentials" link to the left and selecting "New Credentials".

Don't see this menu on the left? Click on "Manage in IBM Cloud" to open the IBM Cloud dashboard.

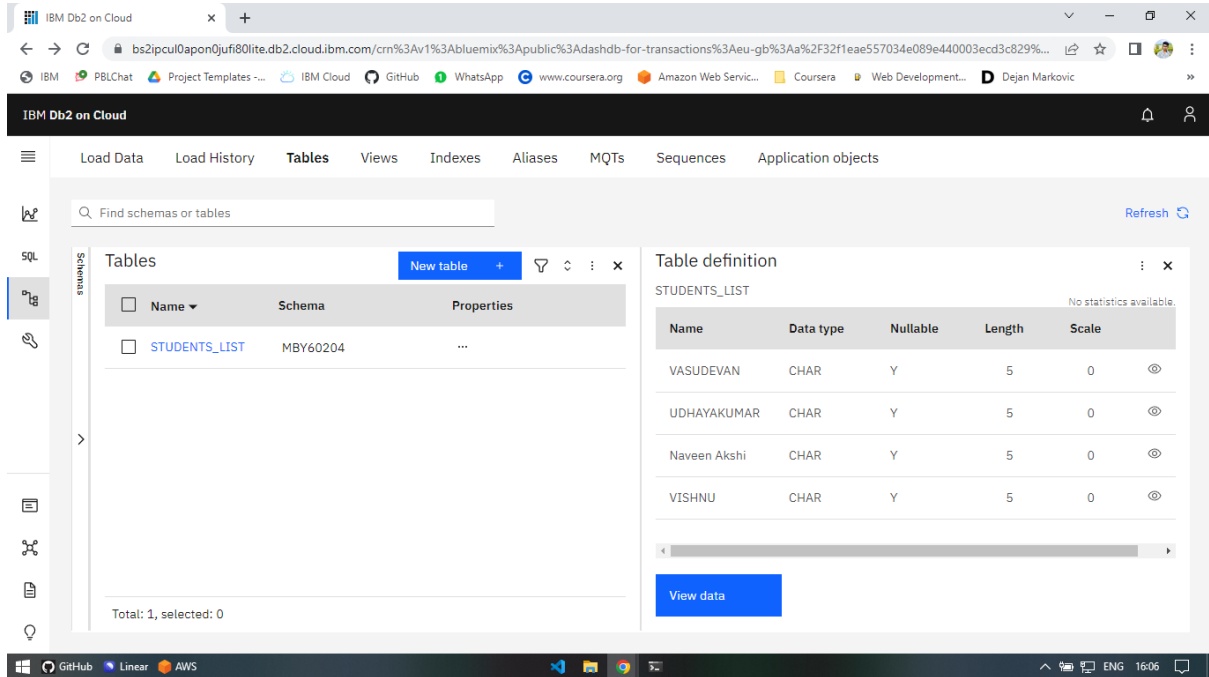
Go to UI Getting started docs

Need help?

Submit a IBM Cloud Support Case to our team.

Support case

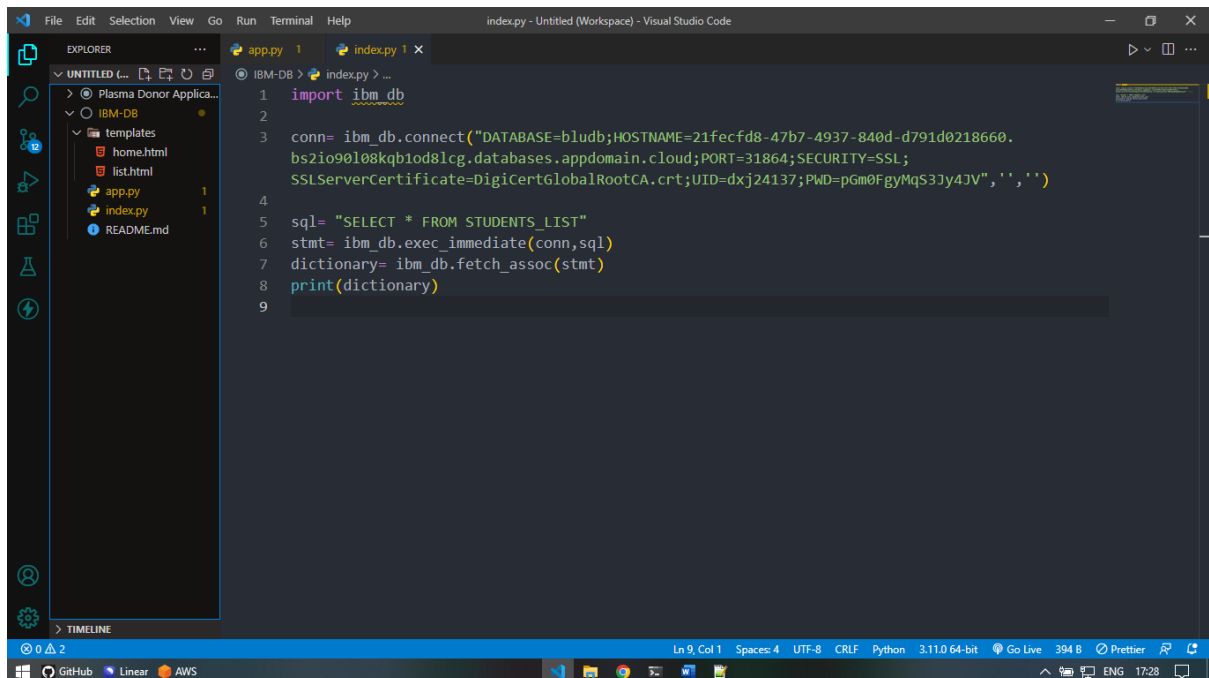
Connect New Table in IBM Db2:



The screenshot shows the IBM Db2 on Cloud web interface. The 'Tables' section is active, displaying a list of tables. The 'STUDENTS_LIST' table is selected, and its definition is shown on the right. The table has five columns: Name, Data type, Nullable, Length, and Scale. The data is as follows:

Name	Data type	Nullable	Length	Scale
VASUDEVAN	CHAR	Y	5	0
UDHAYAKUMAR	CHAR	Y	5	0
Naveen Akshi	CHAR	Y	5	0
VISHNU	CHAR	Y	5	0

Connect the python code with IBM Db2:



The screenshot shows a Visual Studio Code editor with a Python script named 'index.py'. The script connects to an IBM Db2 database and queries the 'STUDENTS_LIST' table. The code is as follows:

```
1 import ibm_db
2
3 conn= ibm_db.connect("DATABASE=bludb;HOSTNAME=21fecfd8-47b7-4937-840d-d791d0218660.
  bs2io90108qkb1od8lcg.databases.appdomain.cloud;PORT=31864;SECURITY=SSL;
  SSLServerCertificate=DigicertGlobalRootCA.crt;UID=dxj24137;PWD=pGm0FgyMqS3jy4JV", '', '')
4
5 sql= "SELECT * FROM STUDENTS_LIST"
6 stmt= ibm_db.exec_immediate(conn,sql)
7 dictionary= ibm_db.fetch_assoc(stmt)
8 print(dictionary)
9
```