

# CREATE IBM DB2 AND CONNECT WITH PYTHON

Team ID	PNT2022TMID53529
Project Name	Customer Care Registry

## IBM DB2 DATABASE TABLES

The screenshot displays the IBM Db2 on Cloud web interface. The 'Tables' tab is active, showing a list of tables: ADMIN, AGENTS, TICKETS, and USERS. The 'USERS' table is selected, and its definition is shown on the right. The table has 3 columns: USERNAME (VARCHAR, 100, N), EMAILADDRESS (VARCHAR, 100, N), and PASSWORD (VARCHAR, 40, N). There are also 3 integer columns: TICKETS (INTEGER, Y, 0), TICKETSRESOLVED (INTEGER, Y, 0), and NOTIFICATIONS (INTEGER, Y, 0). The table is located in the TLF99662 schema. The interface also shows a search bar, a 'New table' button, and a 'View data' button.

Name	Schema	Properties
ADMIN	TLF99662	...
AGENTS	TLF99662	...
TICKETS	TLF99662	...
USERS	TLF99662	...

Name	Data type	Nullable	Length	Scale
USERNAME	VARCHAR	N	100	0
EMAILADDRESS	VARCHAR	N	100	0
PASSWORD	VARCHAR	N	40	0
TICKETS	INTEGER	Y		0
TICKETSRESOLVED	INTEGER	Y		0
NOTIFICATIONS	INTEGER	Y		0

## TABLE DEFINITION USERS

This screenshot is identical to the one above, showing the IBM Db2 on Cloud interface with the 'USERS' table definition. It displays the table's columns, data types, and lengths. The table is located in the TLF99662 schema. The interface also shows a search bar, a 'New table' button, and a 'View data' button.

Name	Schema	Properties
ADMIN	TLF99662	...
AGENTS	TLF99662	...
TICKETS	TLF99662	...
USERS	TLF99662	...

Name	Data type	Nullable	Length	Scale
USERNAME	VARCHAR	N	100	0
EMAILADDRESS	VARCHAR	N	100	0
PASSWORD	VARCHAR	N	40	0
TICKETS	INTEGER	Y		0
TICKETSRESOLVED	INTEGER	Y		0
NOTIFICATIONS	INTEGER	Y		0

# ADMIN

The screenshot shows the IBM Db2 on Cloud web interface. The top navigation bar includes 'Load Data', 'Load History', 'Tables', 'Views', 'Indexes', 'Aliases', 'MQTs', 'Sequences', and 'Application objects'. The 'Tables' tab is selected. On the left, a sidebar shows a list of tables: ADMIN, AGENTS, TICKETS, and USERS, all under the TLF99662 schema. The 'ADMIN' table is selected. The main area displays the 'Table definition' for the ADMIN table. The table has 5 columns: ADMINUSERNAME (VARCHAR, 32, nullable), ADMINEMAILADDRESS (VARCHAR, 32, nullable), ADMINPASSWORD (VARCHAR, 32, nullable), TOTALNOTIFICATIONS (CHAR, 5, nullable), and AGENTSCOUNT (INTEGER, nullable). The table is approximately 1 row (32.0 KB) and was updated on 2022-11-19 16:54:31. A 'View data' button is visible at the bottom of the table definition panel.

Name	Data type	Nullable	Length	Scale
ADMINUSERNAME	VARCHAR	Y	32	0
ADMINEMAILADDRESS	VARCHAR	Y	32	0
ADMINPASSWORD	VARCHAR	Y	32	0
TOTALNOTIFICATIONS	CHAR	Y	5	0
AGENTSCOUNT	INTEGER	Y		0

# AGENTS

The screenshot shows the IBM Db2 on Cloud web interface. The top navigation bar includes 'Load Data', 'Load History', 'Tables', 'Views', 'Indexes', 'Aliases', 'MQTs', 'Sequences', and 'Application objects'. The 'Tables' tab is selected. On the left, a sidebar shows a list of tables: ADMIN, AGENTS, TICKETS, and USERS, all under the TLF99662 schema. The 'AGENTS' table is selected. The main area displays the 'Table definition' for the AGENTS table. The table has 7 columns: AGENTUSERNAME (VARCHAR, 100, nullable), AGENTEMAILADDRESS (VARCHAR, 100, nullable), AGENTPASSWORD (VARCHAR, 40, nullable), AGENTTICKETS (INTEGER, nullable), AGENTTICKETSRESOLVED (INTEGER, nullable), and NOTIFICATION (INTEGER, nullable). The table is approximately 3 rows (32.0 KB) and was updated on 2022-11-19 15:04:12. A 'View data' button is visible at the bottom of the table definition panel.

Name	Data type	Nullable	Length	Scale
AGENTUSERNAME	VARCHAR	N	100	0
AGENTEMAILADDRESS	VARCHAR	N	100	0
AGENTPASSWORD	VARCHAR	N	40	0
AGENTTICKETS	INTEGER	Y		0
AGENTTICKETSRESOLVED	INTEGER	Y		0
NOTIFICATION	INTEGER	Y		0

# TICKETS

IBM Db2 on Cloud

bs2ipcu0apon0juf80lite.db2.cloud.ibm.com/crn%3Av1%3Abluemix%3Apublic%3Adashdb-for-transactions%3Aeu-gb%3Aa%2F137879c926e0428a864707f30bcd33%3Ac83b644f-d3ce...

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IBM Db2 on Cloud

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

Find schemas or tables

Refresh

Schemas

Tables

New table +

Filter Sort Columns

<input type="checkbox"/>	Name	Schema	Properties
<input type="checkbox"/>	ADMIN	TLF99662	...
<input type="checkbox"/>	AGENTS	TLF99662	...
<input type="checkbox"/>	TICKETS	TLF99662	...
<input type="checkbox"/>	USERS	TLF99662	...

Total: 4, selected: 0

Table definition

TICKETS

Approximate 18 rows (32.0 KB)  
Updated on 2022-11-19 14:49:44

Name	Data type	Nullable	Length	Scale
TICKETID	INTEGER	Y		0
USERNAME	VARCHAR	Y	32	0
EMAIL	VARCHAR	Y	32	0
DESCRIPTION	VARCHAR	Y	32	0
AGENTUSERNAME	VARCHAR	Y	32	0
AGENTEMAIL	VARCHAR	Y	32	0

View data

26°C Cloudy

Search

Windows Taskbar Icons

ENG IN 18:55 20-11-2022

IBM Db2 on Cloud

bs2ipcu0apon0juf80lite.db2.cloud.ibm.com/crn%3Av1%3Abluemix%3Apublic%3Adashdb-for-transactions%3Aeu-gb%3Aa%2F137879c926e0428a864707f30bcd33%3Ac83b644f-d3ce...

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IBM Db2 on Cloud

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

Find schemas or tables

Refresh

Schemas

Tables

New table +

Filter Sort Columns

<input type="checkbox"/>	Name	Schema	Properties
<input type="checkbox"/>	ADMIN	TLF99662	...
<input type="checkbox"/>	AGENTS	TLF99662	...
<input type="checkbox"/>	TICKETS	TLF99662	...
<input type="checkbox"/>	USERS	TLF99662	...

Total: 4, selected: 0

Table definition

TICKETS

Approximate 18 rows (32.0 KB)  
Updated on 2022-11-19 14:49:44

Name	Data type	Nullable	Length	Scale
EMAIL	VARCHAR	Y	32	0
DESCRIPTION	VARCHAR	Y	32	0
AGENTUSERNAME	VARCHAR	Y	32	0
AGENTEMAIL	VARCHAR	Y	32	0
STATUS	VARCHAR	Y	32	0
BILLNO	INTEGER	Y		0

View data

26°C Cloudy

Search

Windows Taskbar Icons

ENG IN 18:55 20-11-2022

# CONNECTING IBM DB2 WITH PYTHON

app.py

```
import ibm_db #import statement
#connecting ibm db2 with python
conn =
ibm_db.connect("DATABASE=bludb;HOSTNAME=824dfd4d-99d
e-440d-9991-629c01b3832d.bs2io90l08kqb1od8lcg.databases.a
ppdomain.cloud;PORT=30119;SECURITY=SSL;SSLServerCertifi
cate=DigiCertGlobalRootCA.crt;UID=;PWD=", " ")
```

## View all customers

The screenshot shows a web application interface for 'Customer Care Registry'. The left sidebar contains navigation links: Admin Dashboard, Profile, Profile Information, Manage Agents/Customers (highlighted), View Customers (active), View Agents, Delete Customers, Delete Agents, View Tickets, Assign Tickets, and LOG OUT. The main content area shows a greeting 'Hello admin12' and a 'View All Customers' link. Below this is a table titled 'Customers' with the subtitle 'All Customers registered in the application'. The table has five columns: USERNAME, EMAIL ADDRESS, TICKETS RAISED, TICKETS RESOLVED, and NOTIFICATIONS SENT. It contains three rows of customer data.

USERNAME	EMAIL ADDRESS	TICKETS RAISED	TICKETS RESOLVED	NOTIFICATIONS SENT
supriya123	msupriya2002@gmail.com	5	1	7
sneha	snehamuthukumar3@gmail.com	2	1	4
sakthi	sakthiengg.co.off@gmail.com	0	0	1

IBM Db2 on Cloud

bs2ipcul0apon0juf80lite.db2.cloud.ibm.com/crm%3Av1%3Abluemix%3Apublic%3Adashdb-for-transactions%3Aeu-gb%3Aa%2F137879c926e0428a864707f30bcdda33%3Ac83b644f-d3ce...

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IBM Db2 on Cloud

Load DataLoad HistoryTablesViewsIndexesAliasesMQTsSequencesApplication objects

TLF99662.USERS

Back

Export to CSV

USERNAME	EMAILADDRESS	PASSWORD	TICKETS	TICKETSRESOLVED	NOTIFICATIONS
sakthi	sakthiengg.co.off@gmail.com	123	0	0	1
sneha	snehamuthukumar3@gmail.com	123	2	1	4
suppriya123	msuppriya2002@gmail.com	123	5	1	7

26°C Cloudy

Search

ENG IN

19:08 20-11-2022