Date	15 November2022
Team ID	PNT2022MID48213
Project name	Skills/Job Recommender Application

STEPS TO CREATE IBM DB2 AND CONNECTION WITH PYTHON

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 = "2d46b6b4-cbf6-40eb-
bbce 6251e6ba0300.bs2io90l08kqb1od8lcg.databases.appdomain.cloud"

dsn_uid = "mnfrk567" dsn_pwd = "7RRvb9RDCoZ78j9l"

dsn_driver = "{IBM DB2 ODBC DRIVER}" dsn_database = "BLUDB"

e.g. "BLUDB" dsn_port = "32328" # 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};").

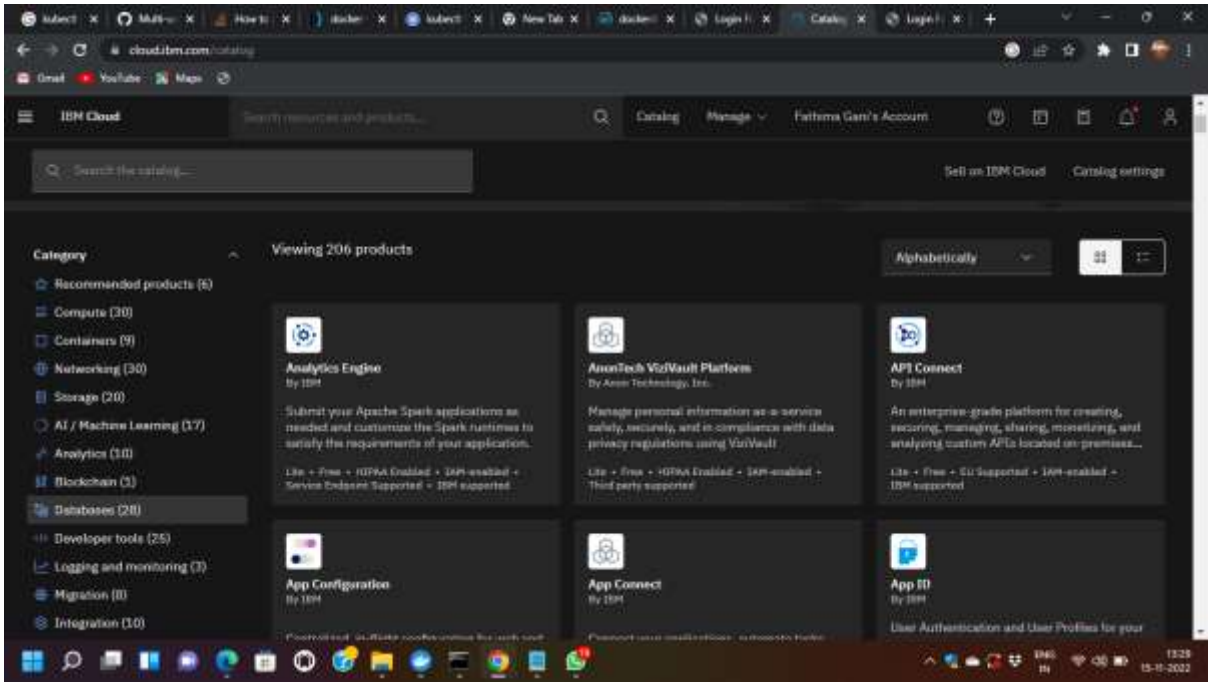
format(dsn_driver, dsn_database, dsn_hostname, dsn_port, dsn_protocol, dsn_uid, dsn_pwd,dsn_security) print(dsn)

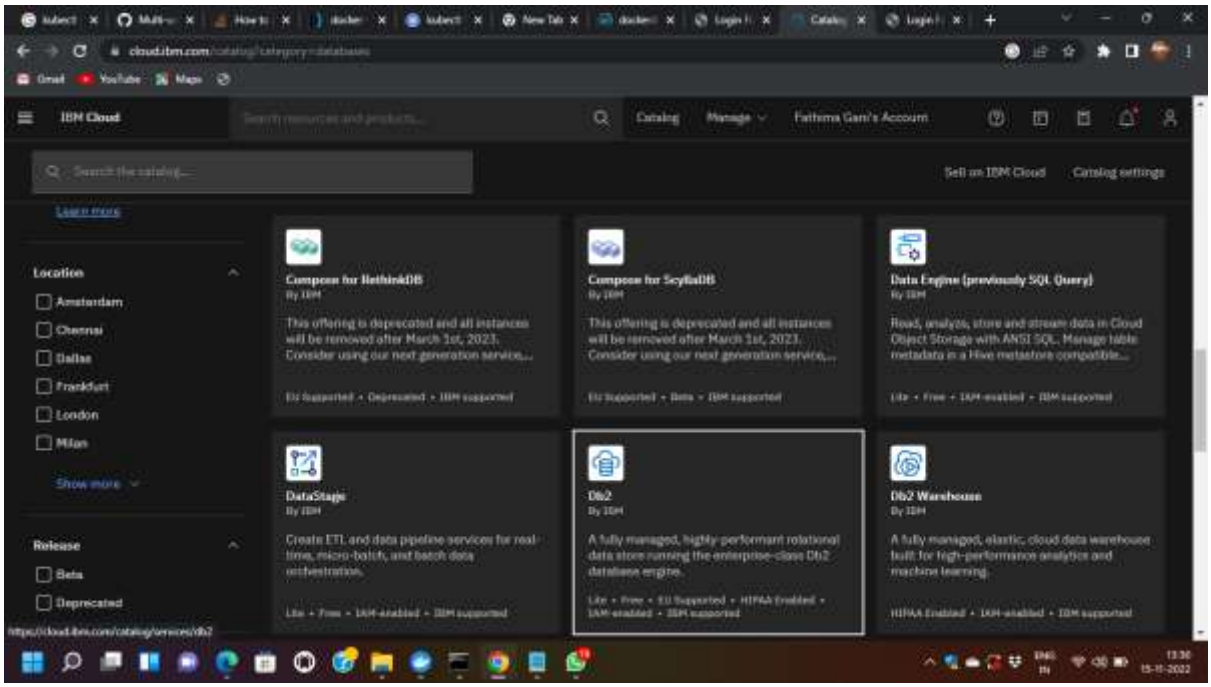
Now establish the connection to the database

```
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 ("DRIVER_ODBC_VER: ", client.DRIVER_ODBC_VER)
 print ("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)
```


IBM Cloud
Catalog
Manage
Fathima Gani's Account
Sell on IBM Cloud
Catalog settings
Category
Viewing 206 products
Alphabetically
Recommended products (6)
Compute (30)
Containers (9)
Networking (30)
Storage (20)
AI / Machine Learning (17)
Analytics (10)
Blockchain (1)
Databases (28)
Developer tools (25)
Logging and monitoring (3)
Migration (0)
Integration (10)
Analytics Engine
By IBM
Submit your Apache Spark applications as needed and customize the Spark runtimes to satisfy the requirements of your application.
AnonTech VizVault Platform
By Anon Technology, Inc.
Manage personal information as a service safely, securely, and in compliance with data privacy regulations using VizVault
API Connect
By IBM
An enterprise-grade platform for creating, securing, managing, sharing, monetizing, and analyzing custom APIs located on-premises...
App Configuration
By IBM
App Connect
By IBM
App ID
By IBM
User Authentication and User Profiles for your


IBM Cloud
Catalog
Manage
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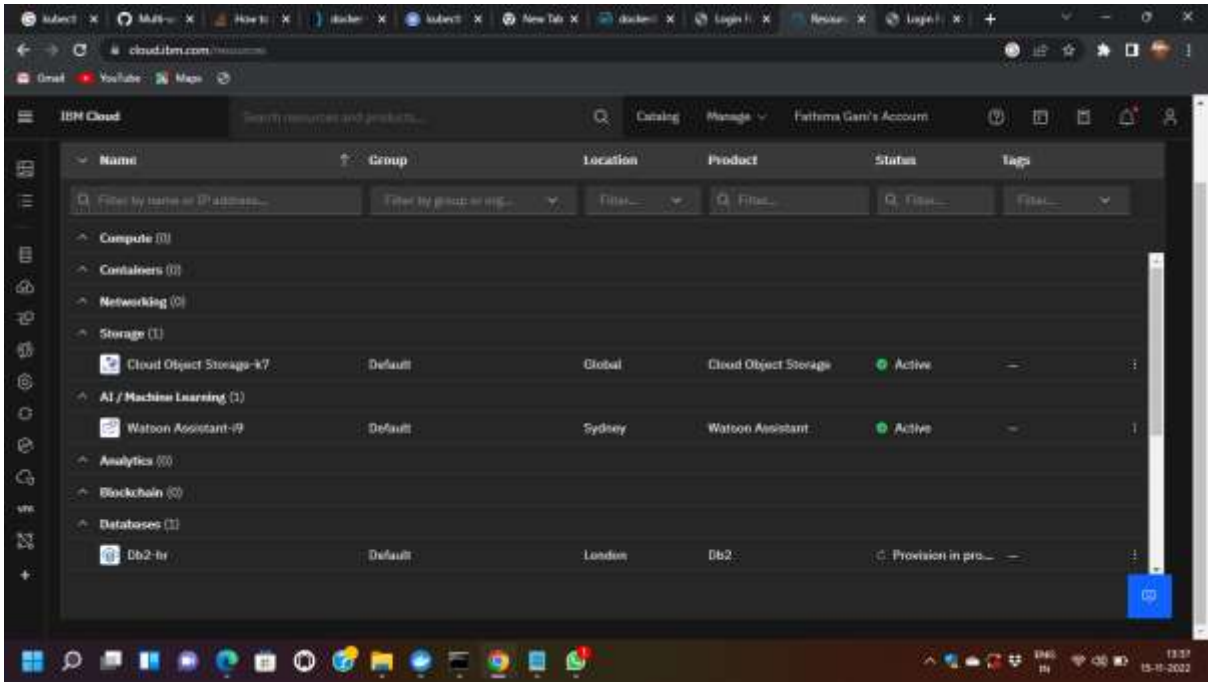
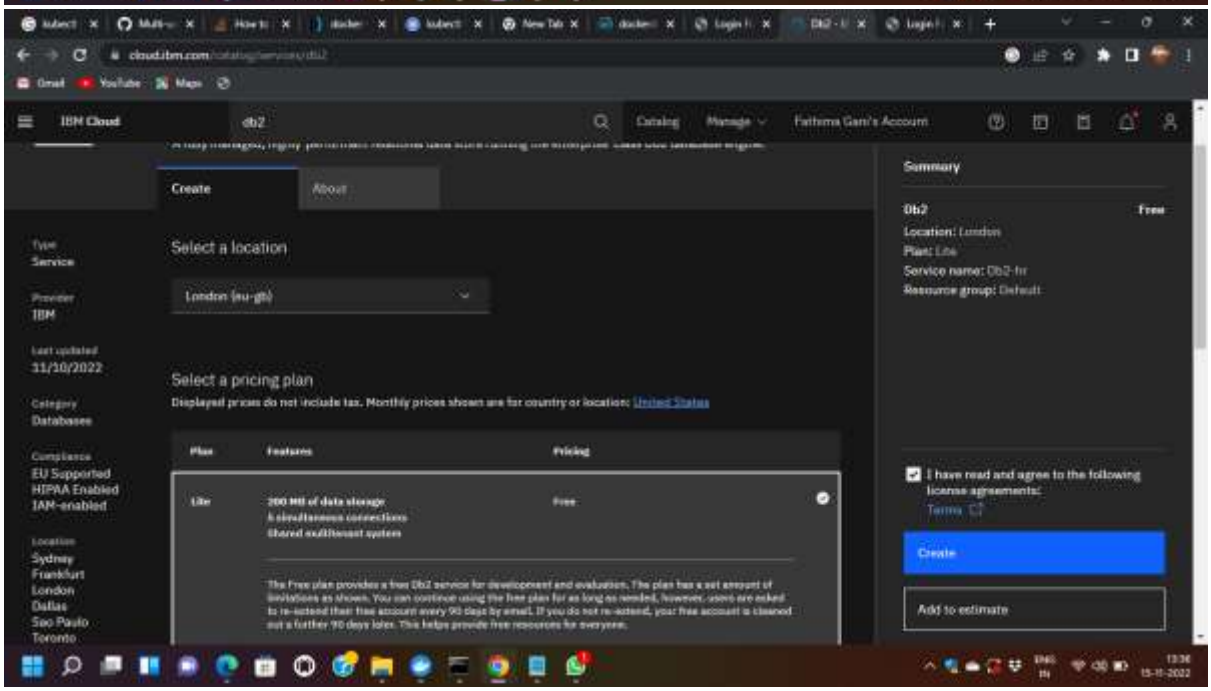
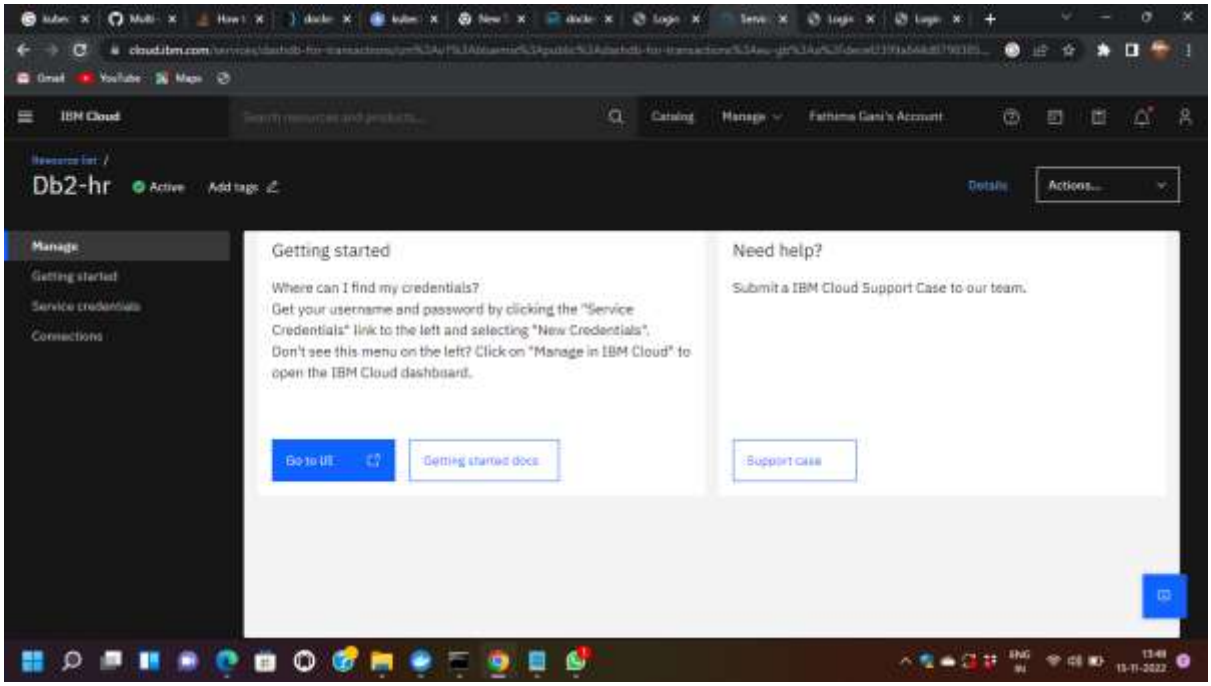
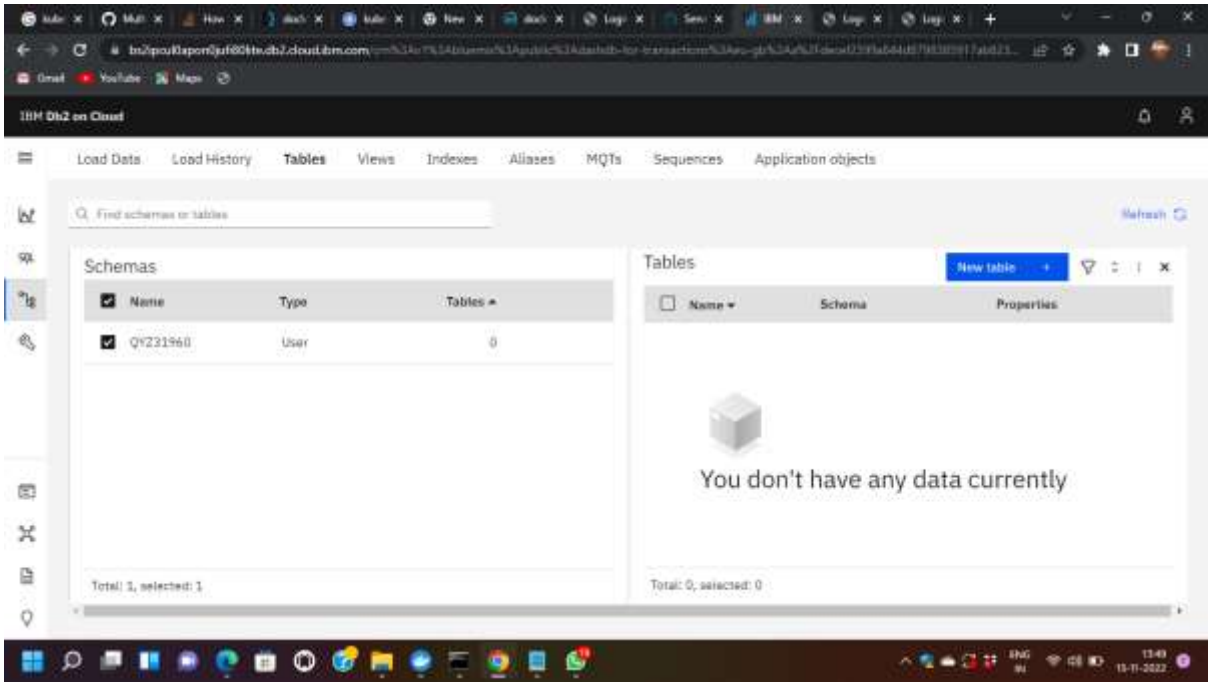
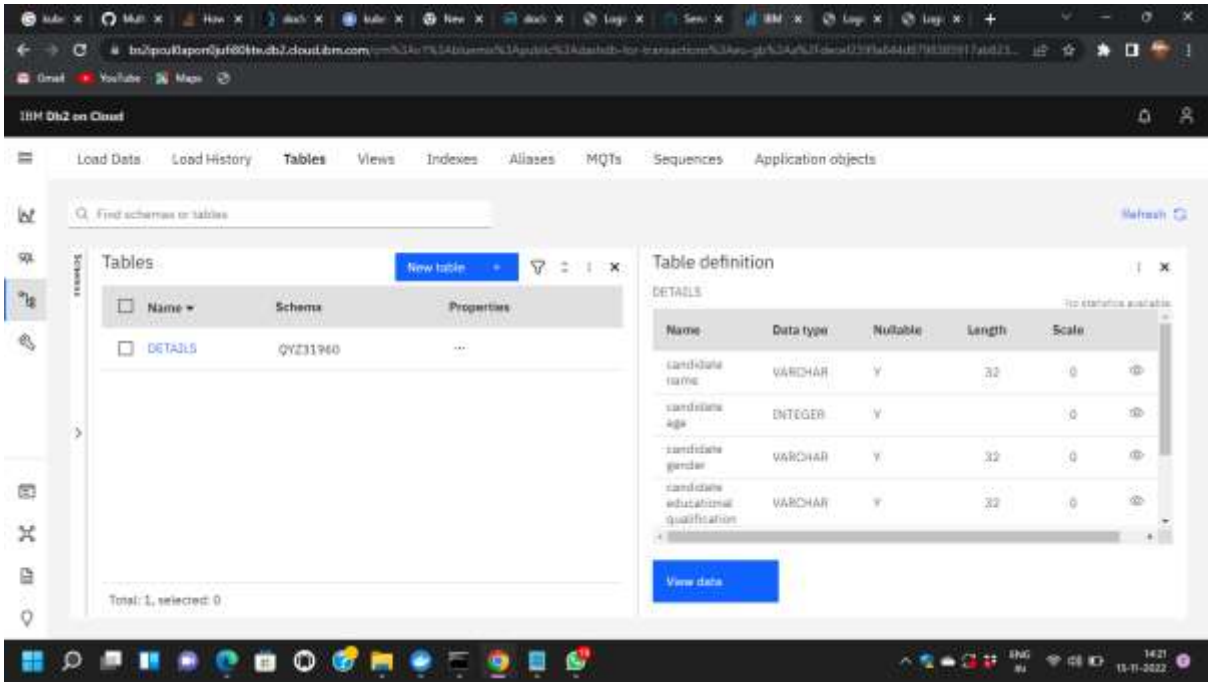
Sell on IBM Cloud
Catalog settings
Learn more
Location
Amsterdam
Chennai
Dallas
Frankfurt
London
Milan
Show more
Release
Beta
Deprecated
Compose for RethinkDB
By IBM
This offering is deprecated and all instances will be removed after March 1st, 2023. Consider using our next generation service,...
Compose for ScyllaDB
By IBM
This offering is deprecated and all instances will be removed after March 1st, 2023. Consider using our next generation service,...
Data Engine (previously SQL Query)
By IBM
Read, analyze, store and stream data in Cloud Object Storage with ANSI SQL. Manage table metadata in a Hive metastore compatible...
DataStage
By IBM
Create ETL and data pipeline services for real-time, micro-batch, and batch data orchestration.
Db2
By IBM
A fully managed, highly performant relational data store running the enterprise-class Db2 database engine.
Db2 Warehouse
By IBM
A fully managed, elastic, cloud data warehouse built for high-performance analytics and machine learning.

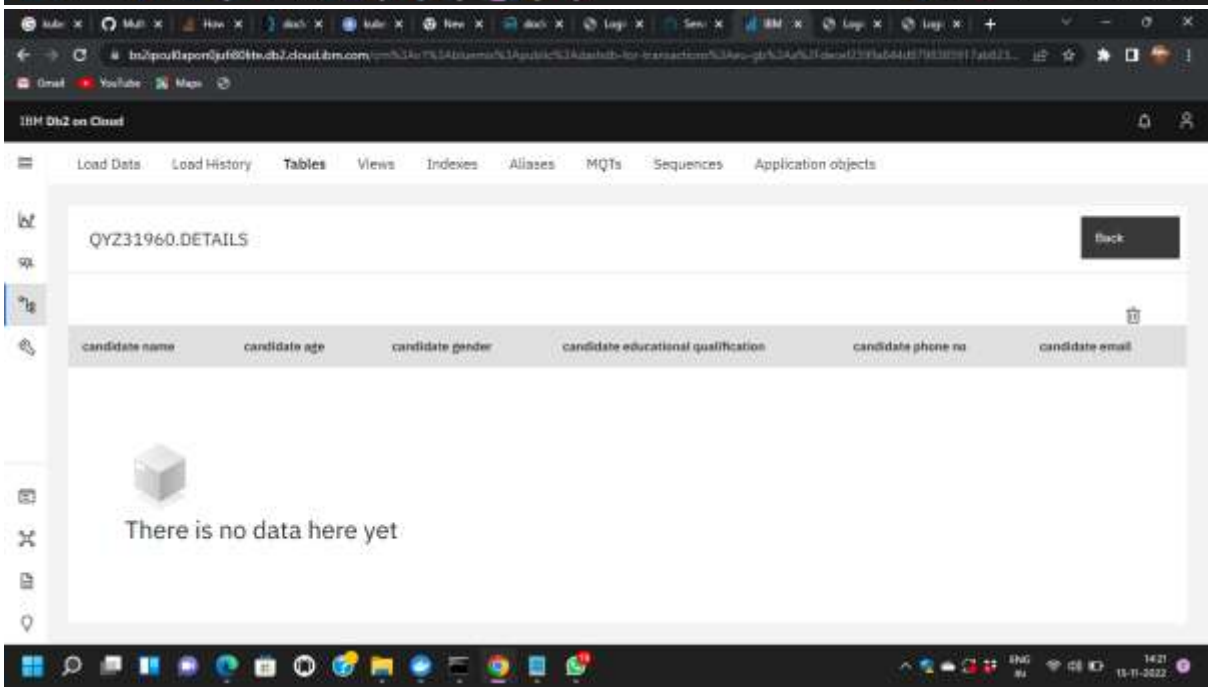

IBM Cloud
Catalog
Manage
Fathima Gani's Account
Name
Group
Location
Product
Status
Tags
Compute (0)
Containers (0)
Networking (0)
Storage (1)
Cloud Object Storage-k7
Default
Global
Cloud Object Storage
Active
AI / Machine Learning (1)
Watson Assistant-i9
Default
Sydney
Watson Assistant
Active
Analytics (0)
Blockchain (0)
Databases (1)
Db2-hr
Default
London
Db2
Provision in pro...

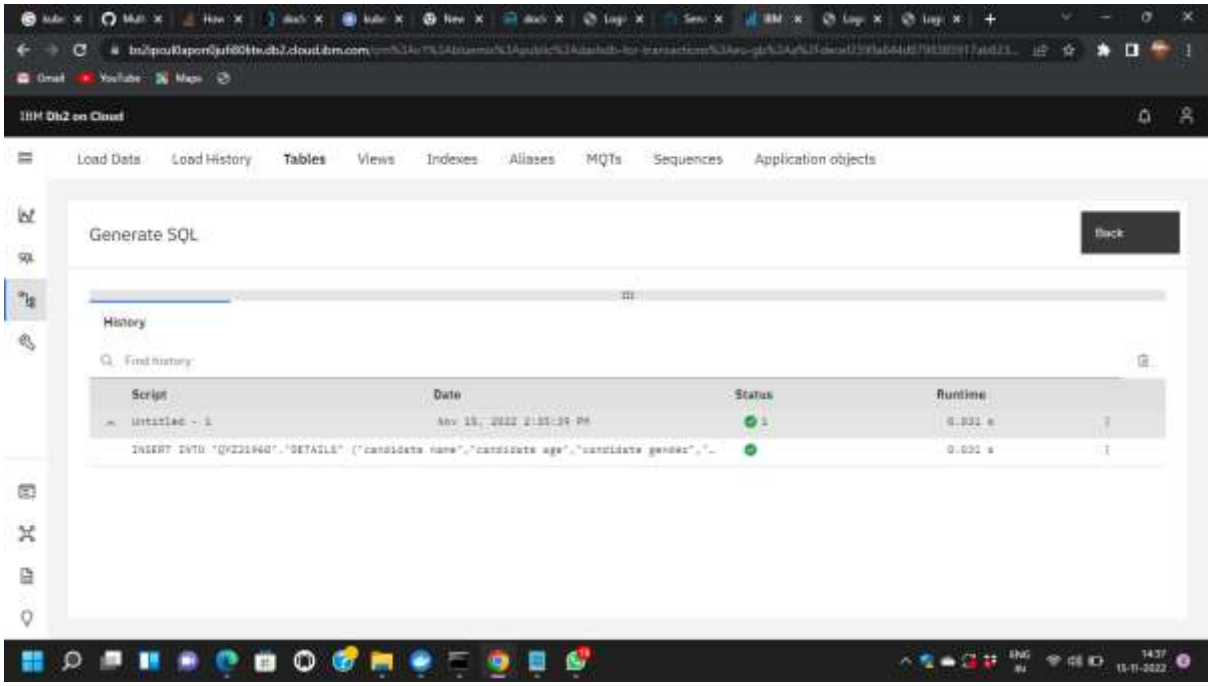

IBM Cloud
db2
Catalog
Manage
Fathima Gani's Account
Create
About
Select a location
London (eu-gb)
Select a pricing plan
Displayed prices do not include tax. Monthly prices shown are for country or location: United States
Plan
Features
Pricing
Lite
200 MB of data storage
5 simultaneous connections
Shared multitenant system
Free
Summary
Db2
Free
Location: London
Plan: Lite
Service name: Db2-hr
Resource group: Default
I have read and agree to the following license agreements:
Terms
Create
Add to estimate
Type
Service
Provider
IBM
Last updated
11/10/2022
Category
Databases
Compliance
EU Supported
HIPAA Enabled
IAM-enabled
Location
Sydney
Frankfurt
London
Dallas
Sao Paulo
Toronto


IBM Cloud
Catalog
Manage
Fathima Gani's Account
Db2-hr
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


IBM Db2 on Cloud
Load Data
Load History
Tables
Views
Indexes
Aliases
MQTs
Sequences
Application objects
Refresh
Schemas
Name
Type
Tables
QY231960
User
0
Total: 1, selected: 1
Tables
New table
Name
Schema
Properties
You don't have any data currently
Total: 0, selected: 0


IBM Db2 on Cloud
Load Data
Load History
Tables
Views
Indexes
Aliases
MQTs
Sequences
Application objects
Refresh
Tables
New table
Name
Schema
Properties
DETAILS
QYZ31960
Total: 1, selected: 0
Table definition
DETAILS
Name
Data type
Nullable
Length
Scale
candidate name
VARCHAR
candidate age
INTEGER
candidate gender
VARCHAR
candidate educational qualification
VARCHAR
View data


IBM Db2 on Cloud
Load Data
Load History
Tables
Views
Indexes
Aliases
MQTs
Sequences
Application objects
QYZ31960.DETAILS
Back
candidate name
candidate age
candidate gender
candidate educational qualification
candidate phone no
candidate email
There is no data here yet


IBM Db2 on Cloud
Load Data
Load History
Tables
Views
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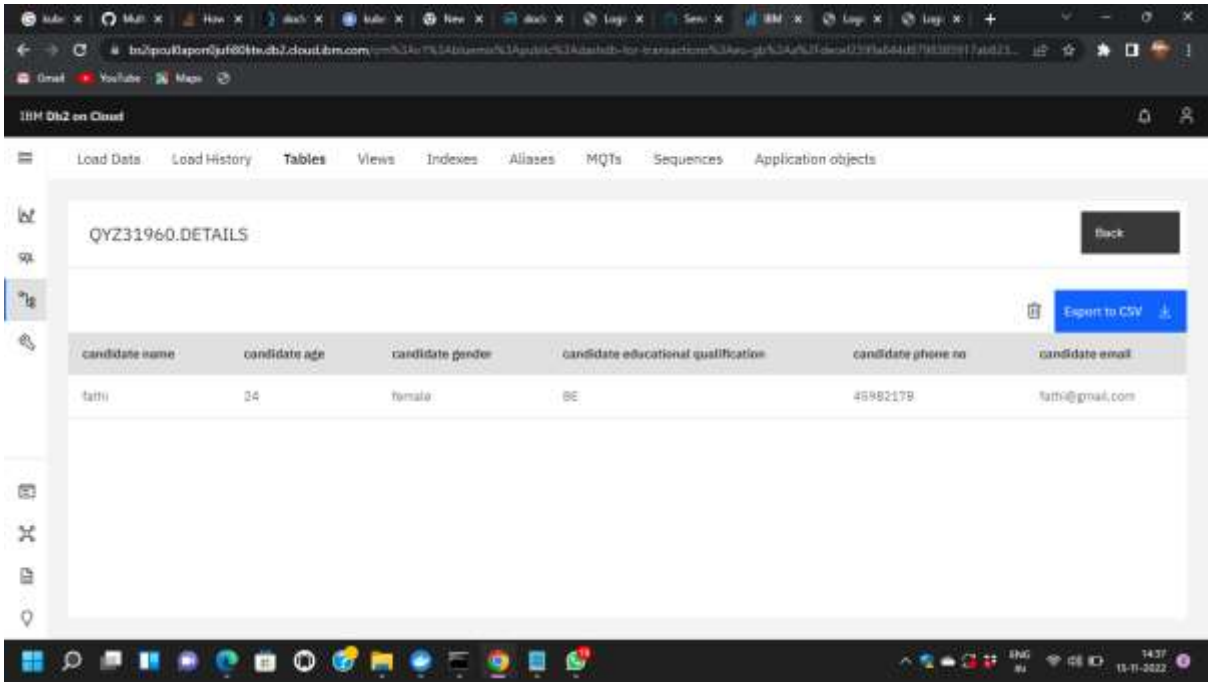
Sequences
Application objects
Generate SQL
Back
History
Script
Date
Status
Runtime


IBM Db2 on Cloud
Load Data
Load History
Tables
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MQTs
Sequences
Application objects
QYZ31960.DETAILS
Back
Export to CSV
candidate name
candidate age
candidate gender
candidate educational qualification
candidate phone no
candidate email
fathi
24
female
BE
46982179
fathi@gmail.com