

Data Warehousing with IBM Cloud Db2 Warehouse

Cloud Computing

Nalaya Thiran Project

by

Aashif Ali N 211521104001

K.S.Nithish Kumar 211521104099

K.Prabakar 211521104108

N.Maheshwaran 211521104084

P.Praveen Kumar 211521104114

from

Panimalar Institute of Technology

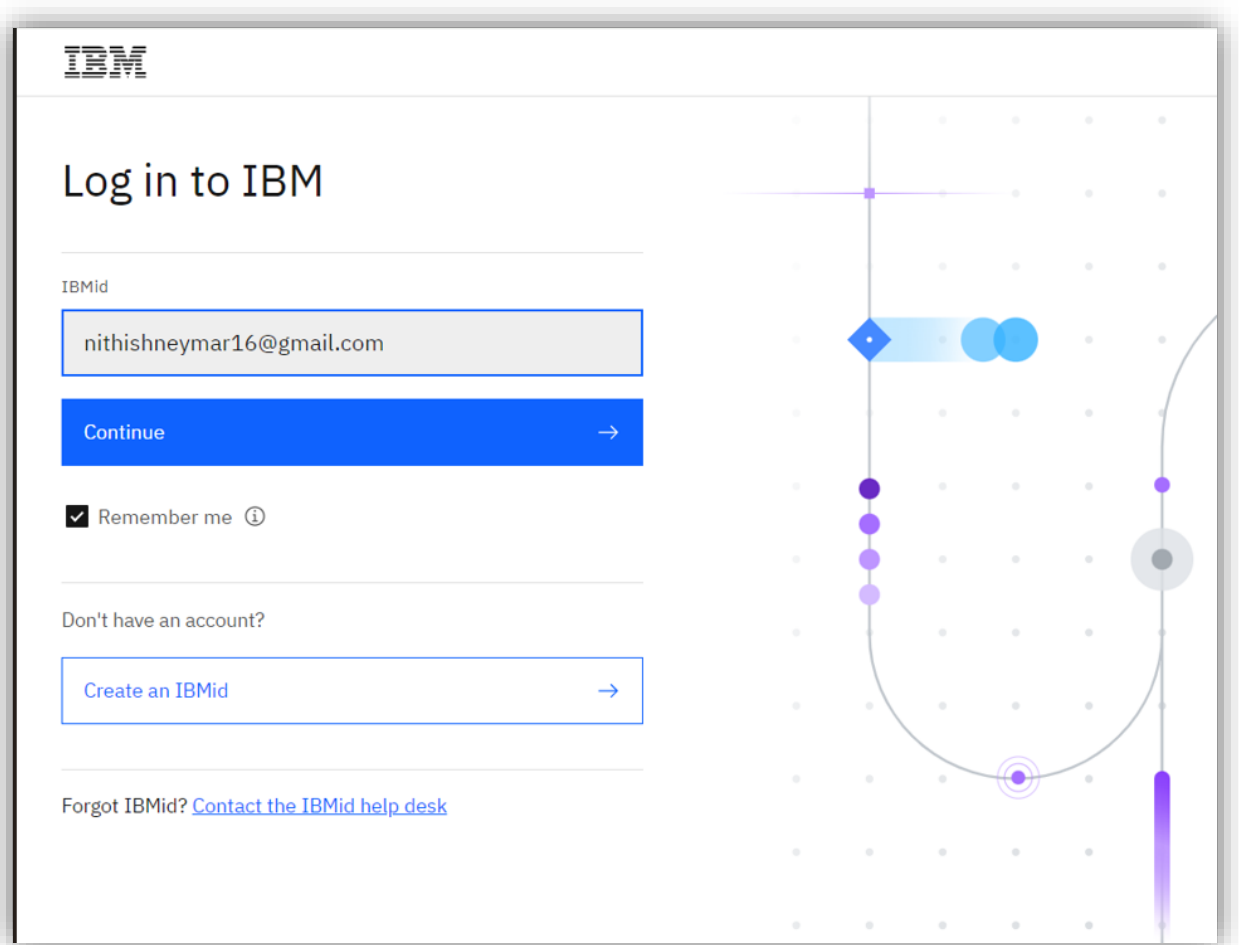
B.E

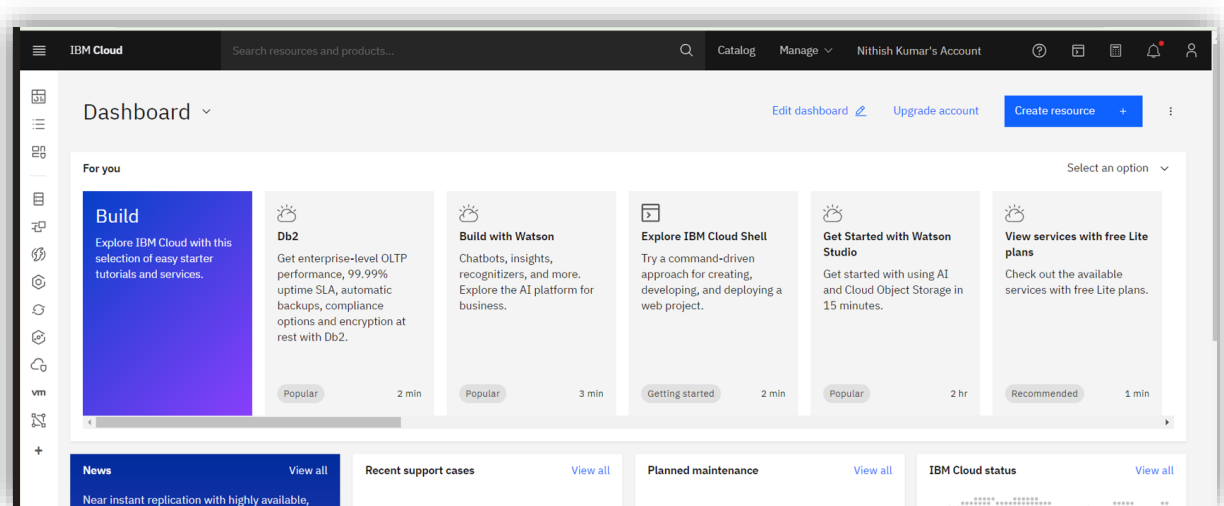
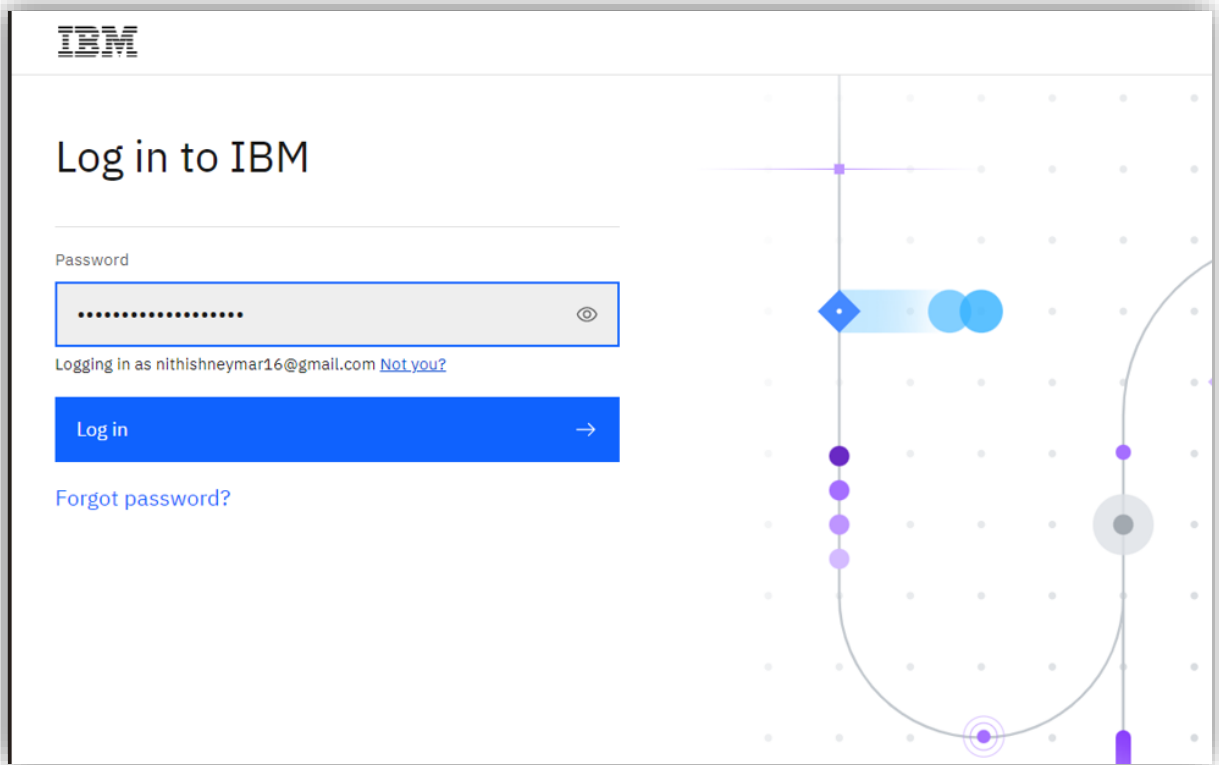
Computer Science Engineering

Phase 3

The dataset is loaded into the IBM cloud for further processing. Identify data sources and develop an integration plan for them in the data warehouse.

- The first step is to log in to the IBM account.

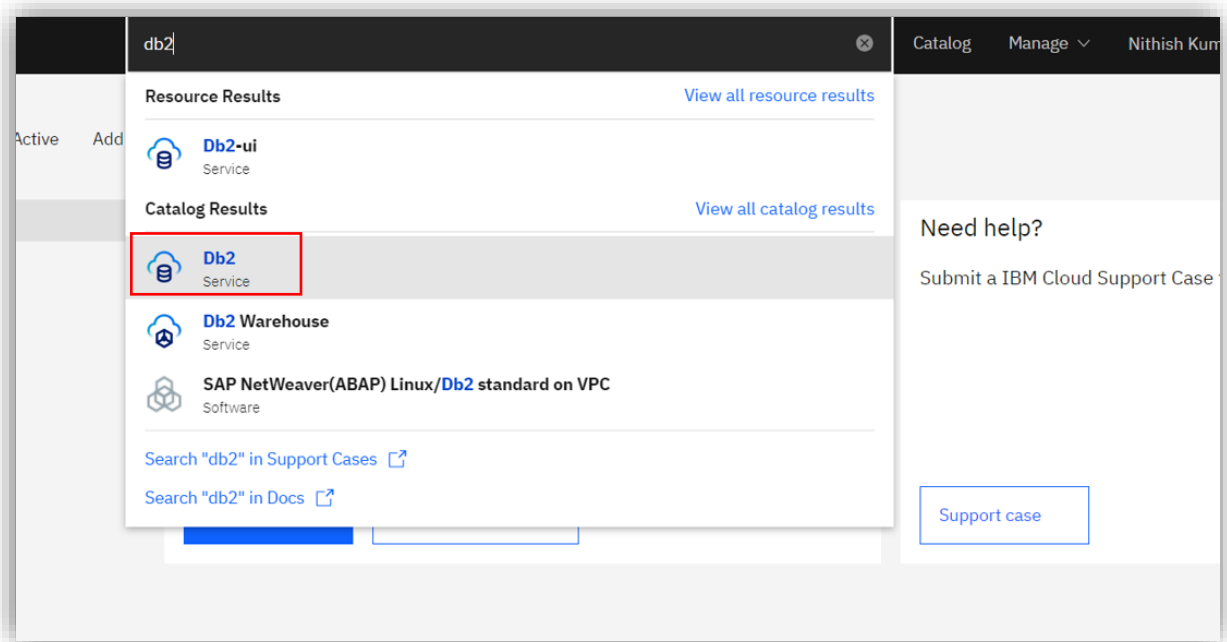




- Then the dashboard will be displayed.

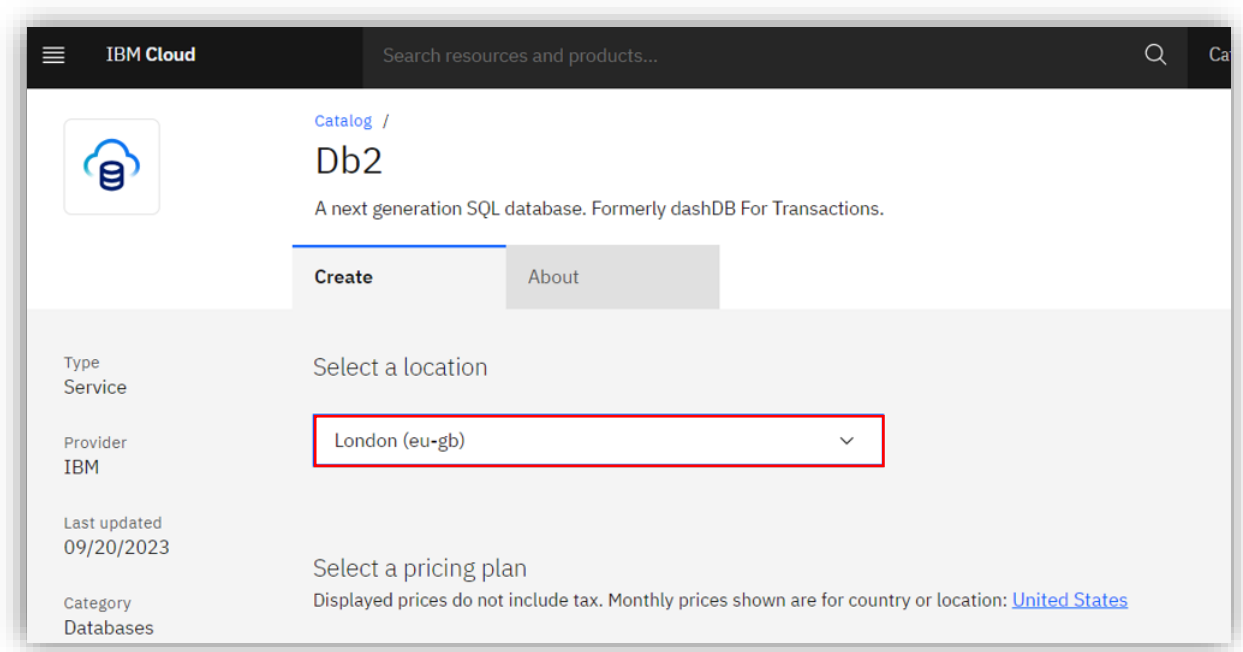
The second step is to create a DB2 service.

- Then search **Db2** in the search bar.



- In that choose **Db2 service**.

- Select the location as [London](#).



- Choose the **Lite** version which is provided by the IBM.

[Catalog](#) /

Db2

A next generation SQL database. Formerly dashDB For Transactions.

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 and capabilities	Pricing
Lite	200 MB of data storage 5 simultaneous connections Shared multitenant system	Free

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.

Lite plan services are deleted after 30 days of inactivity.

- Tick the box to agree the terms then click [create](#) to create the service.

Summary

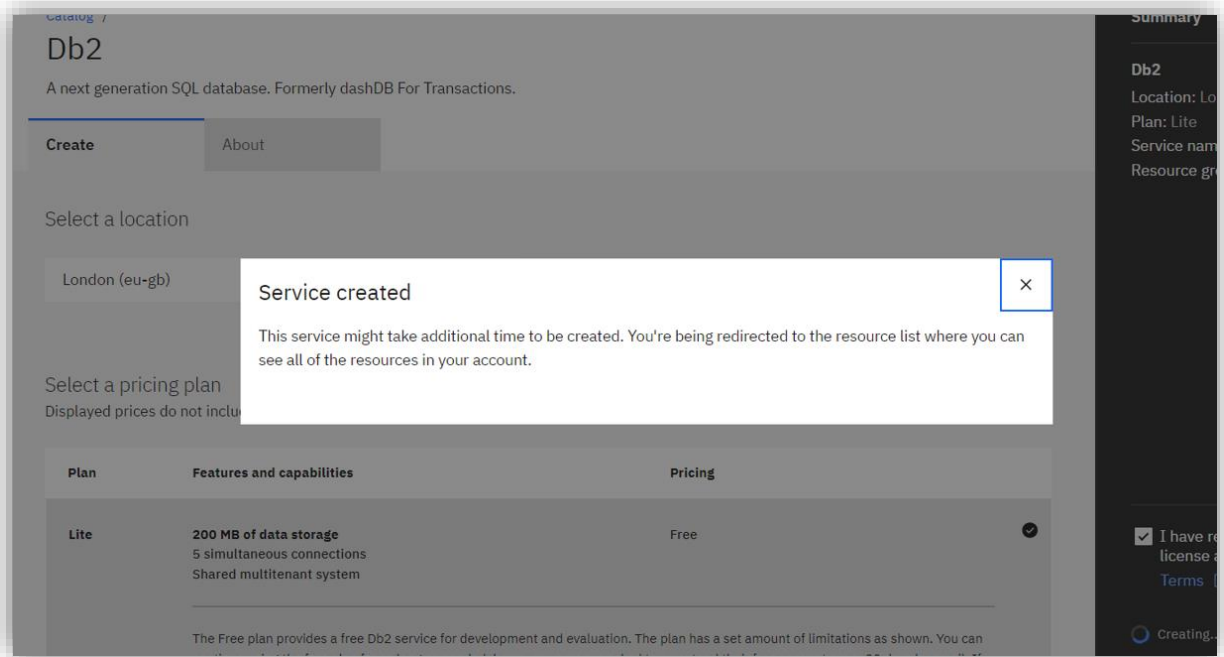
Db2 **Free**

Location: London
Plan: Lite
Service name: Db2-ui
Resource group: Default

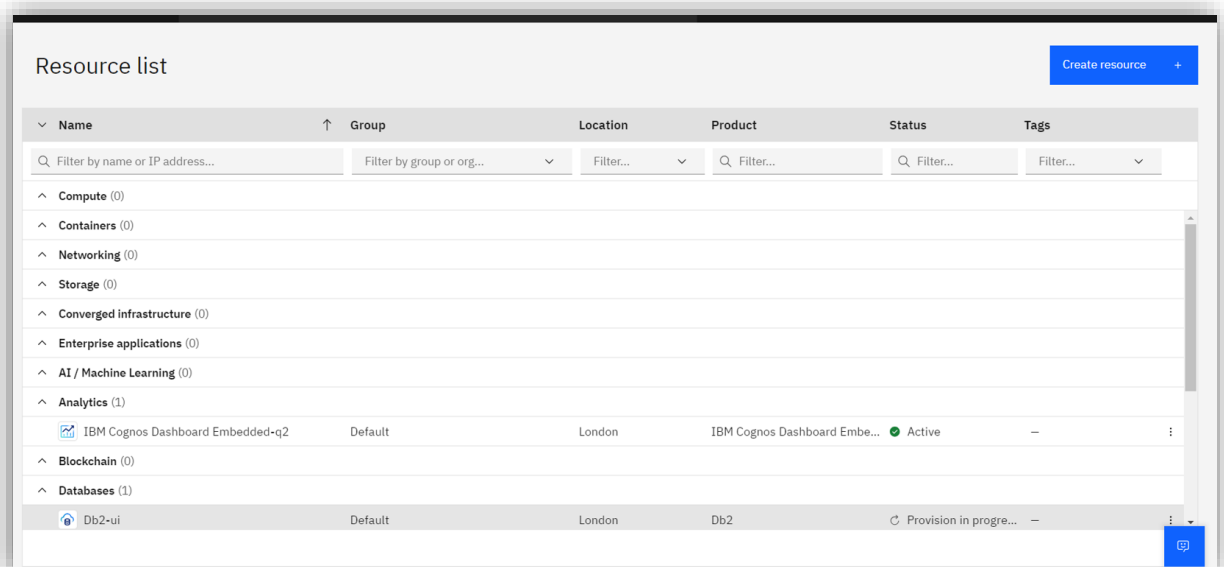
☒ I have read and agree to the following license agreements:
[Terms](#) [↗](#)

Create

Add to estimate

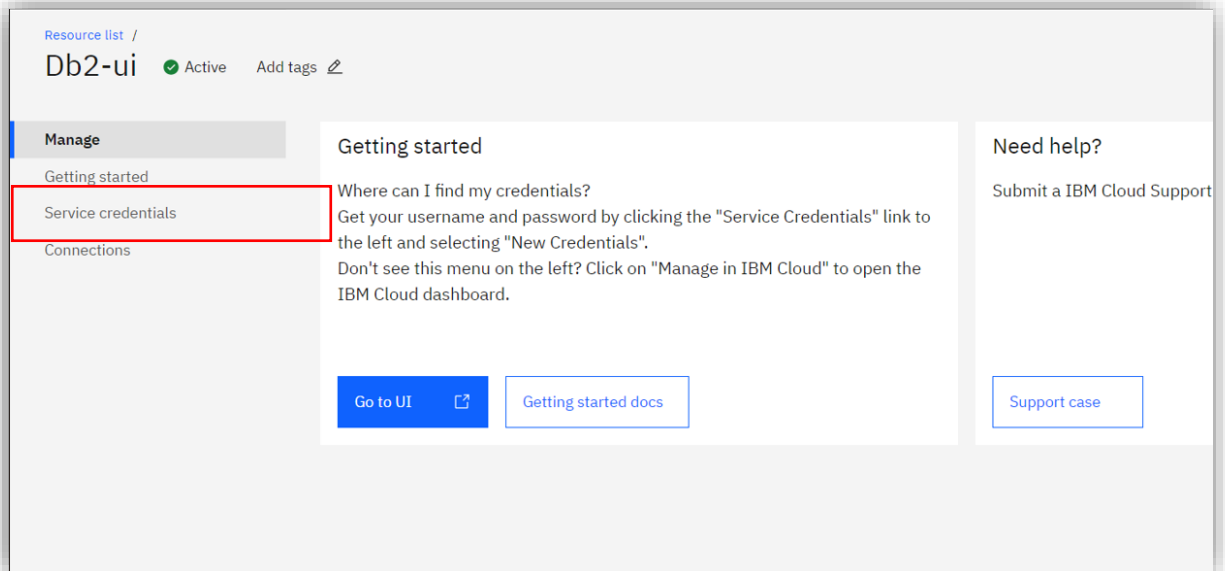


- Then the service created message will be shown.
- Go to resource list to check if the service is created or not.

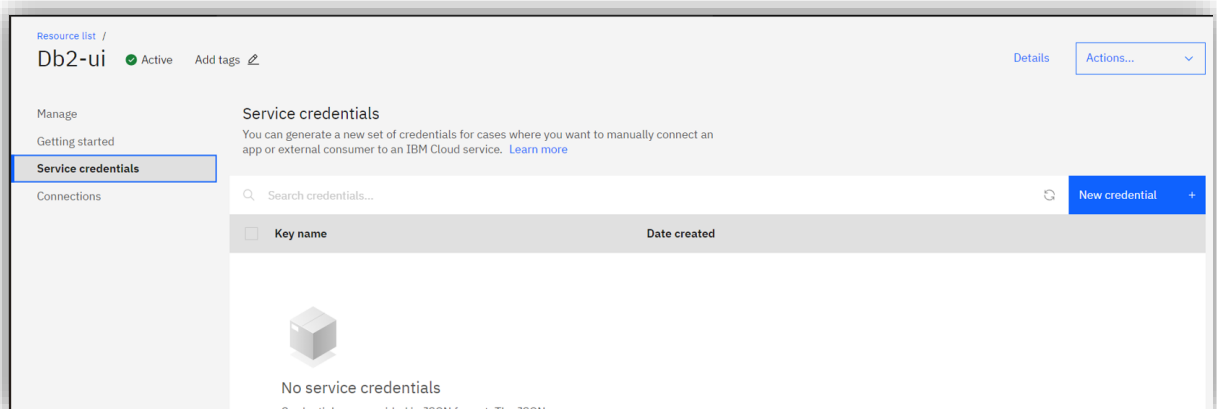


The next step is to create the service credentials.

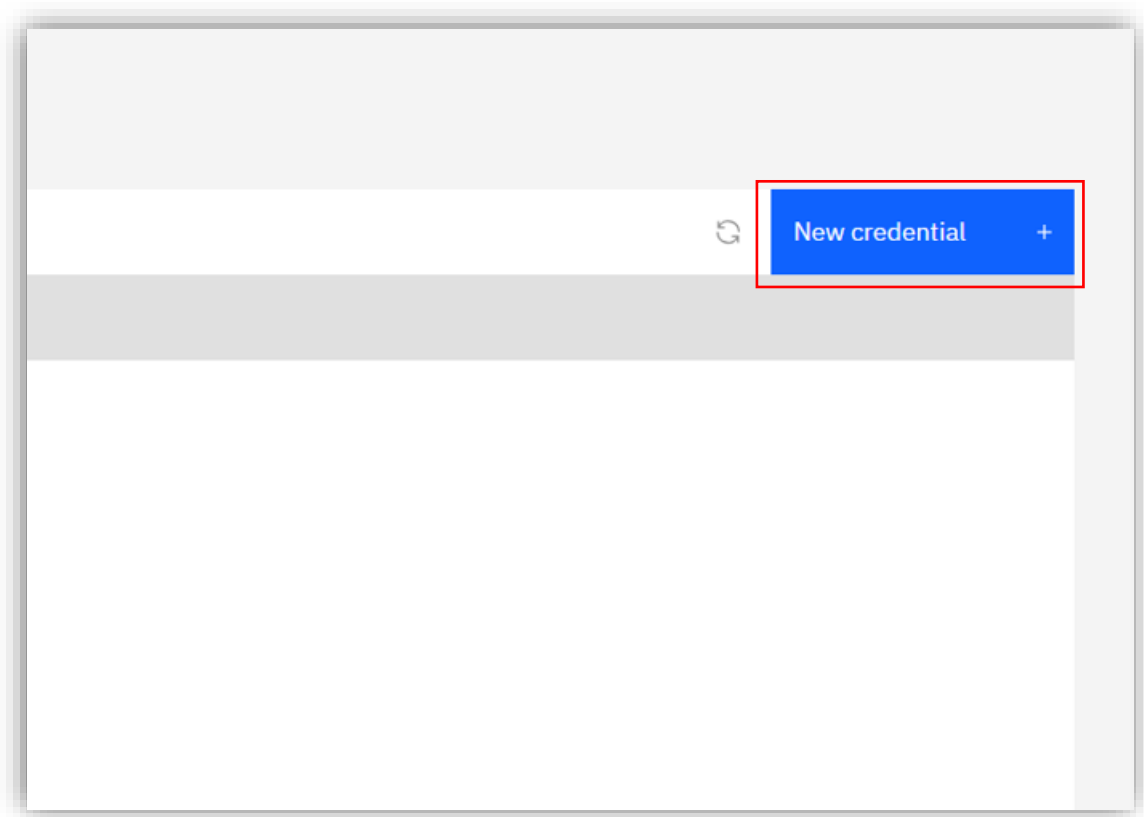
- On that click the [Db2 service](#).



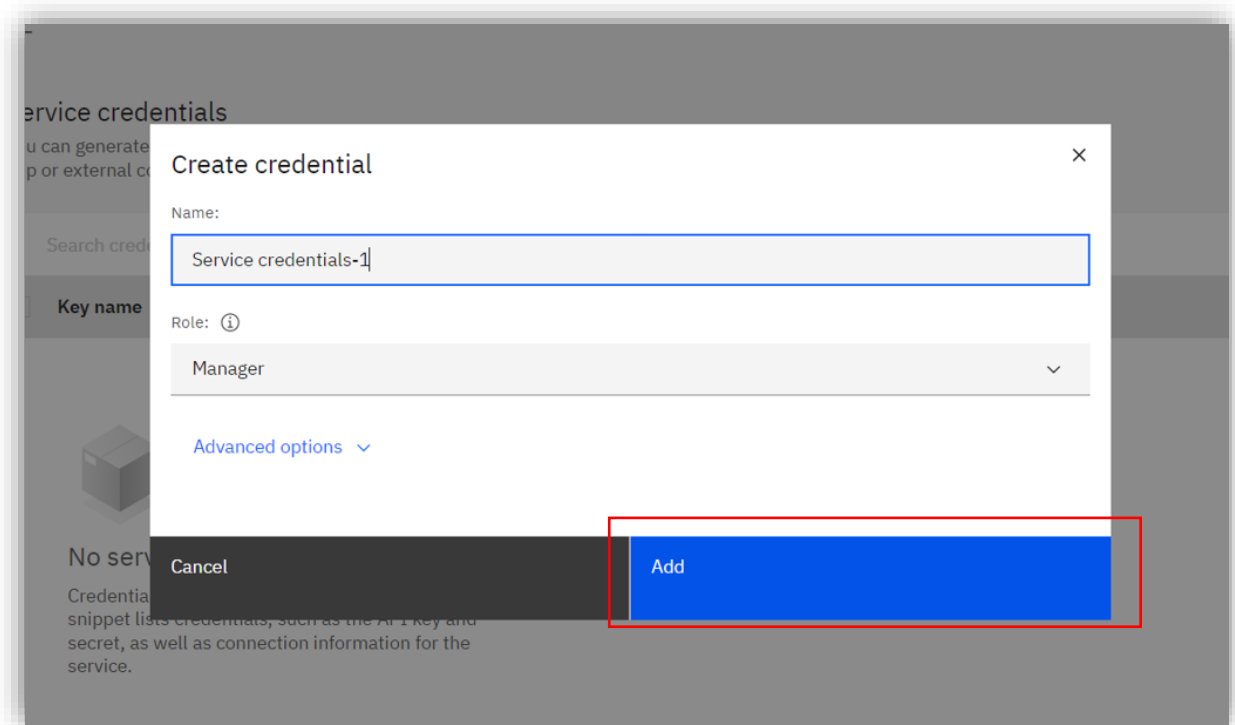
- Then click the [Service credentials](#).



- Click [New credential](#) to create a new service.



- Name that service and select the role.

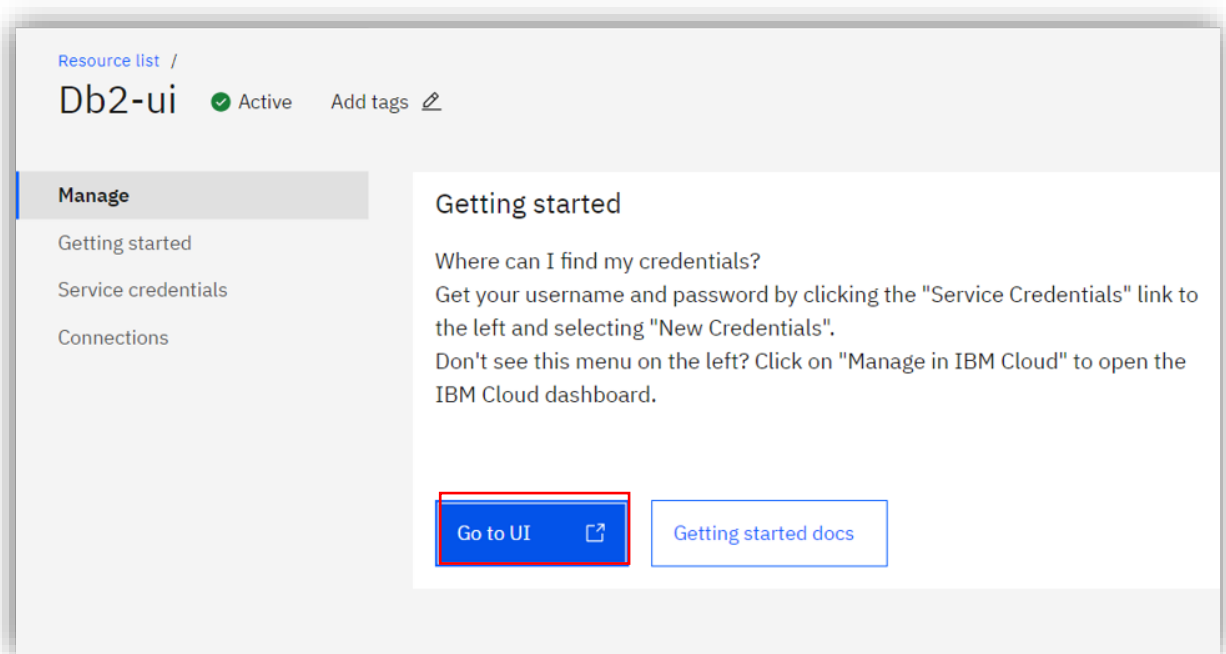


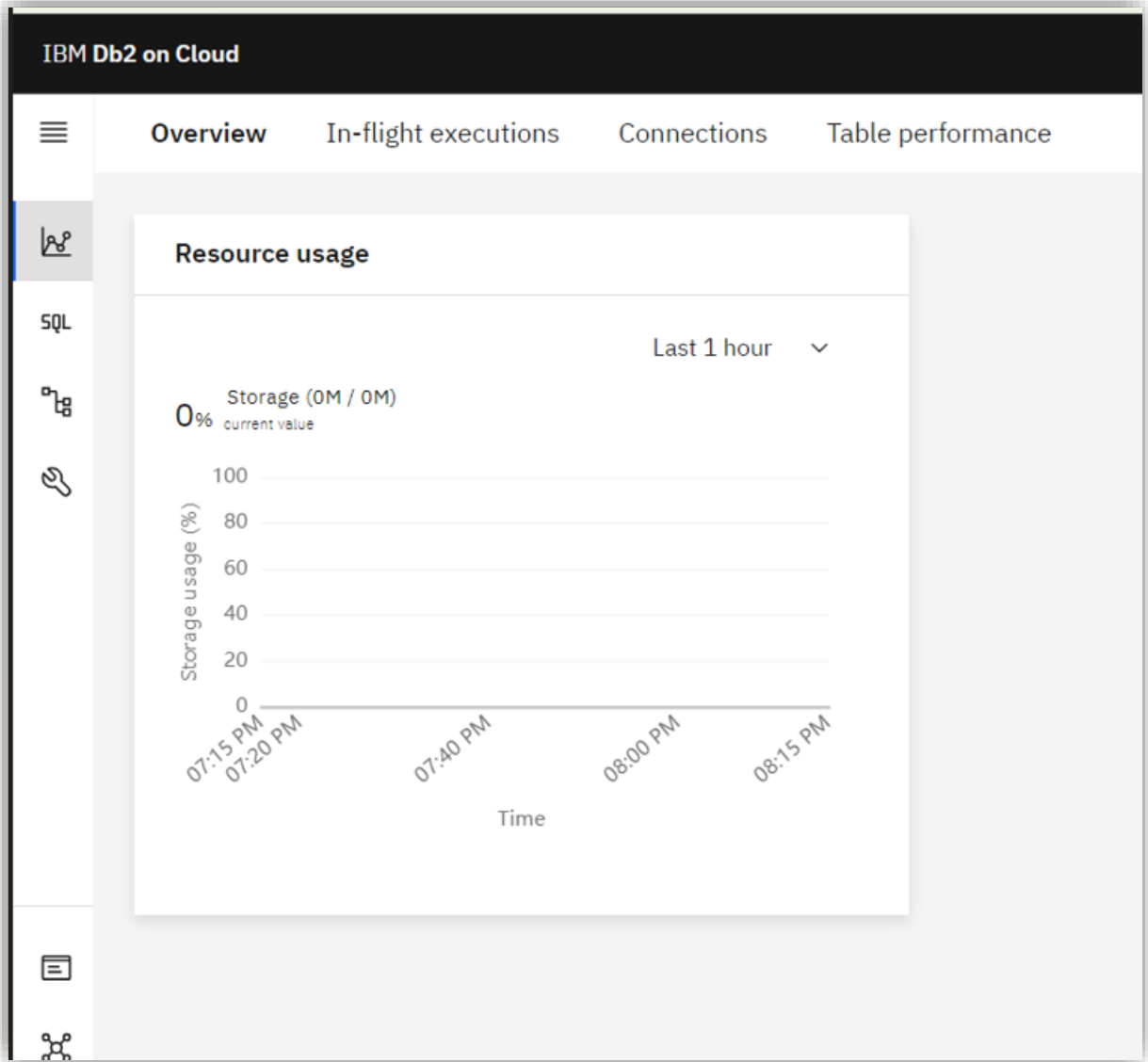
- Finally click [Add](#).

- Save the [username,password](#) and [host](#) for future use.



- Then go to manage and click [Go to UI](#) button.

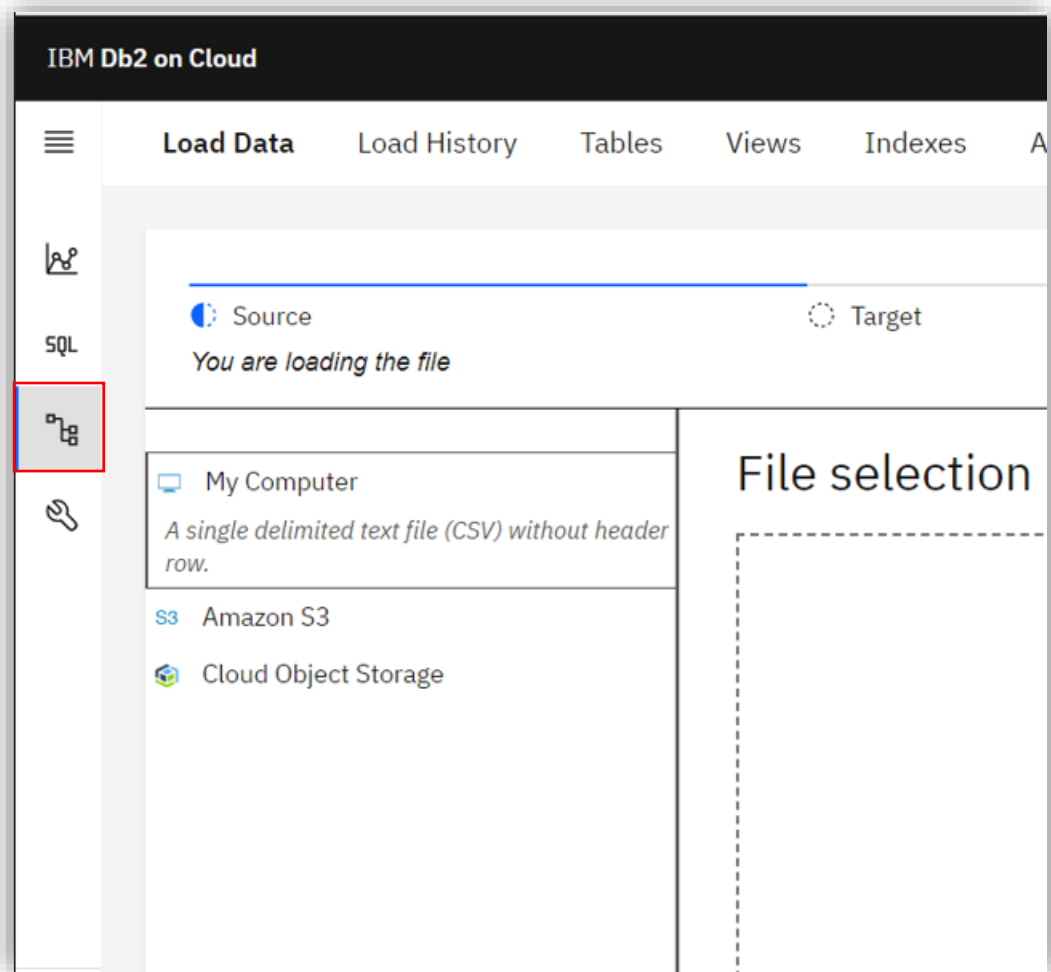




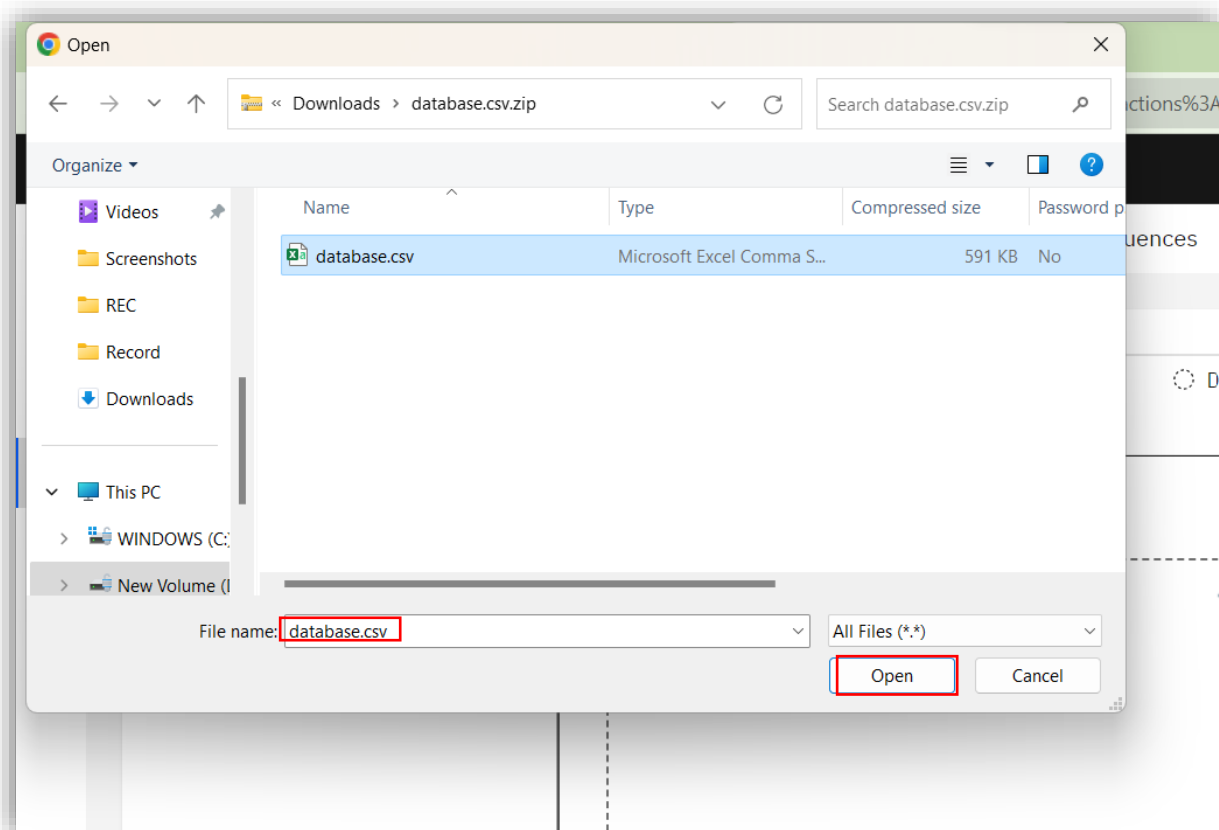
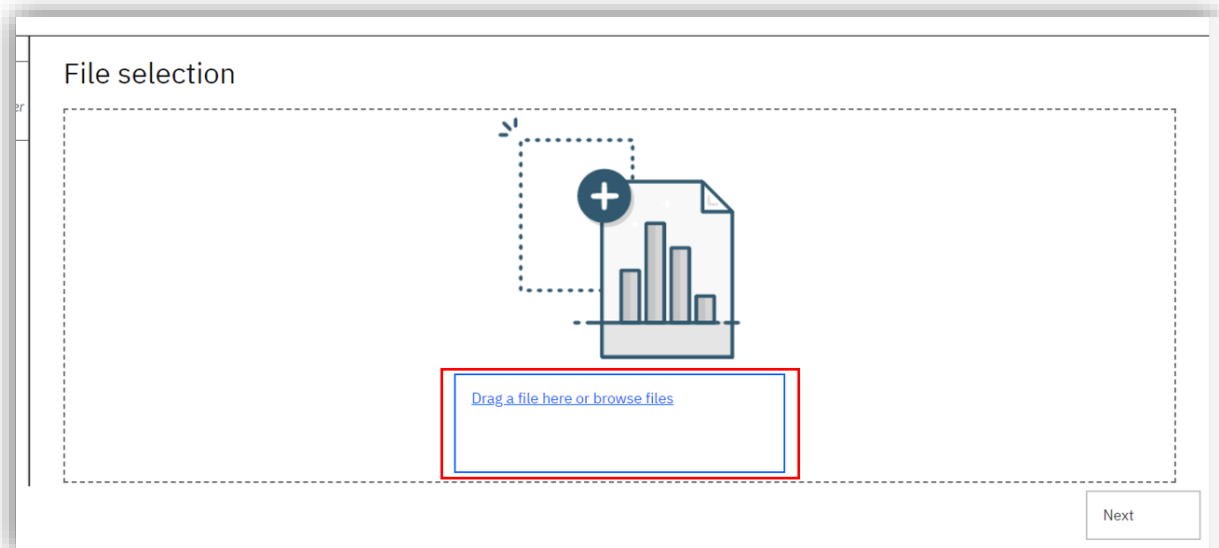
- Then the UI will be displayed.

The final step is to load the dataset into the IBM cloud.

- Move to the third tab as shown in the figure below.



- Select the necessary file for further processing.



➤ Click [Next](#) .

○ Finalize

Selected file

database[1].csv ×

Next

- Select the created schema.

Select a load target

Schema

Q

Find schemas

SGB82420

- Create table and click [Next](#).

Refresh ↺

Table

New table +

Q

Find tables in SGB82420

DATABASE1	✓
DATABASE	
SAMPLE-SPREADSHEET-10000-ROWS	

Back

Next

- Then click **Begin Load** button.

Define Finalize

Option

Maximum number of warnings

1000

Back Begin Load

- Then the dataset will be finally loaded.

IBM Db2 on Cloud

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

Load details

My computer database[1].csv Target SGB82420.DATABASE1

WARNING 7 warnings

Status Settings

23,412 Rows read 23,412 Rows loaded 0 Rows rejected

Start time 10/16/2023 11:15:39 PM
End time 10/16/2023 11:15:44 PM

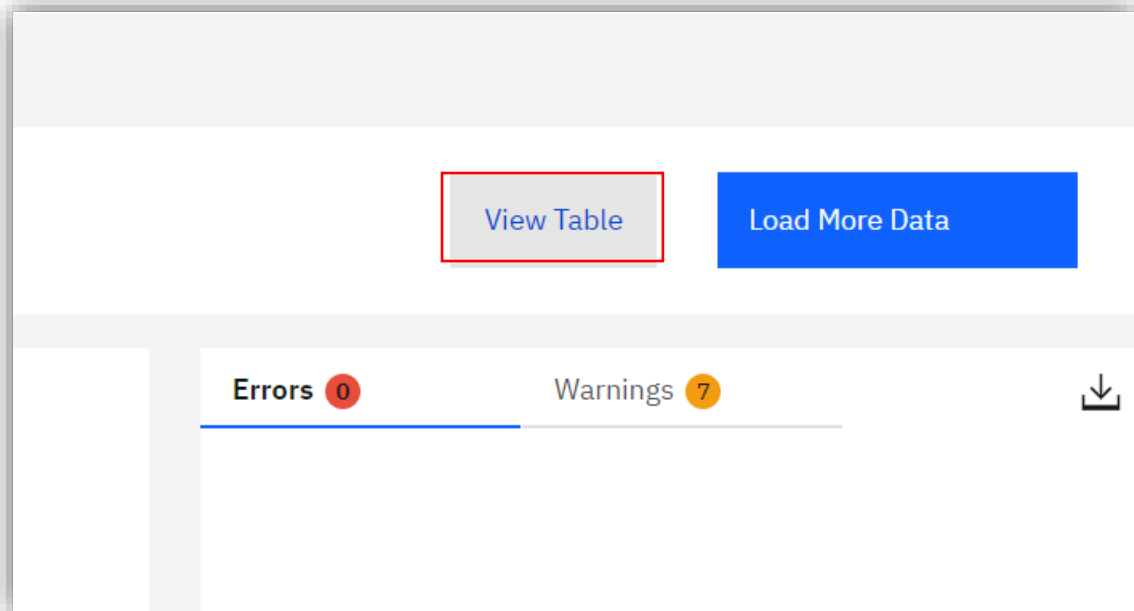
The data load job succeeded.
You can now work with your data.

Errors 0 Warnings 7

No errors
But, there are 7 warnings.

Notifications
Load completed with minor error
Load database[1].csv from My Computer to SGB82420.DATABASE1
2023/10/16, 11:15 PM View details

- We can view the loaded table by clicking the [View Table](#) button.



- At last the dataset is loaded.

SGB82420.DATABASE1

	DATE VARCHAR(24)	TIME VARCHAR(24)	LATITUDE DECIMAL(16, 7)	LONGITUDE DECIMAL(17, 7)	TYPE VARCHAR(17)	DEPTH DECIMAL(7, 3)	DEPTH_ERROR DECIMAL(7, 3)	DEPTH_SEISMI. SMALLINT
1	01/01/1967	07:05:51	-15.2370000	-173.6080000	Earthquake	30.000		
2	01/01/1967	21:59:00	-11.2000000	165.4160000	Earthquake	30.000		
3	01/01/1969	09:07:06	51.0960000	-179.3920000	Earthquake	45.000		
4	01/01/1970	17:11:00	-29.4000000	-177.1690000	Earthquake	35.000		
5	01/01/1971	07:58:03	-4.1900000	141.1830000	Earthquake	35.000		
6	01/01/1972	22:05:55	-17.0210000	174.9030000	Earthquake	10.000		
7	01/01/1973	11:42:37	-35.5130000	-16.2110000	Earthquake	33.000		

- Using the SQL tab we can query the loaded dataset.

