Lab: Load data into the IBM Db2 database from a CSV file

Lab Overview:

Now that you have learned about the process of importing data into a data repository from varied sources, you will load data from a CSV file into the IBM Db2 database instance you created in the previous lab.

Estimated time needed: 15 minutes

Dataset used in this exercise:

The dataset used in this exercise comes from the following source: https://www.kaggle.com/antfarol/car-sale-advertisements under a CC0: Public Domain license. We are using a modified subset of that dataset for this lab. To follow the lab instructions successfully, please use the dataset provided with this exercise rather than the dataset from the original source.

NOTE: The lab assumes that you have downloaded this CSV file: exercise03_car_sales_data.csv to your local system.

Please follow the steps given below to provision your instance of IBM Db2 on Cloud.

1. Go to: https://cloud.ibm.com/catalog/services/db2 to access your Db2 dashboard on Cloud.
2. If you're not already logged in to your IBM Cloud Lite account, click on **Log in** at the bottom right of the screen to log in.
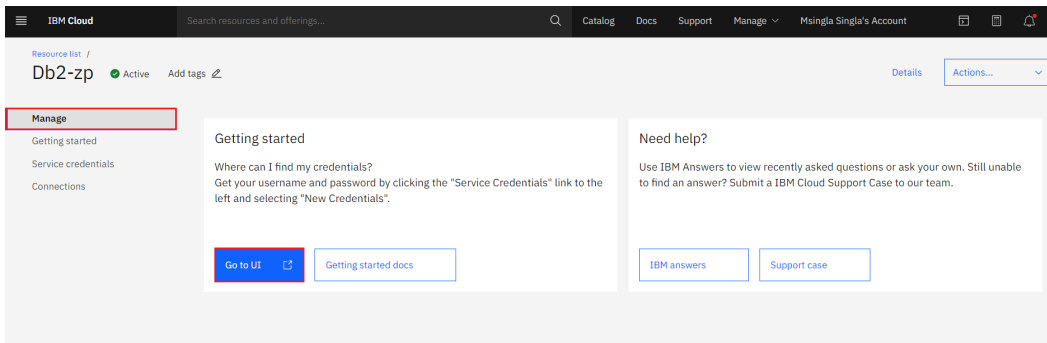

3. Logging in will take you to your **Db2 service dashboard**.

Click on **view existing** link in the **Existing Lite plan instance** box.

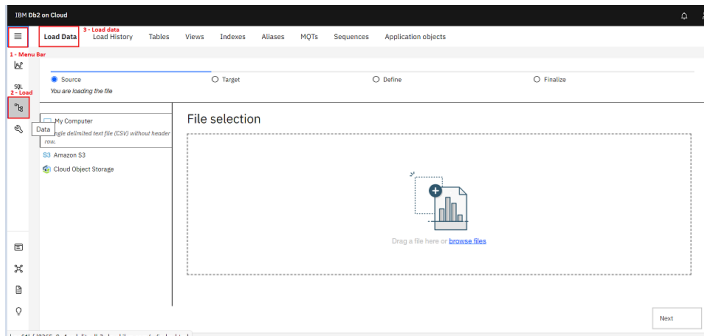4. The **Manage** tab will be active by default in your services dashboard. Click on **Go to UI**.

5. Now click on the menu bar icon in the top left corner of your Db2 service dashboard.

Click on **Load > Load Data**.

6. You can either drag and drop the CSV file into the **File selection** box, or you can click on the **browse files** link, also provided in the **File selection** box to browse your local folders to find and open the downloaded CSV file.
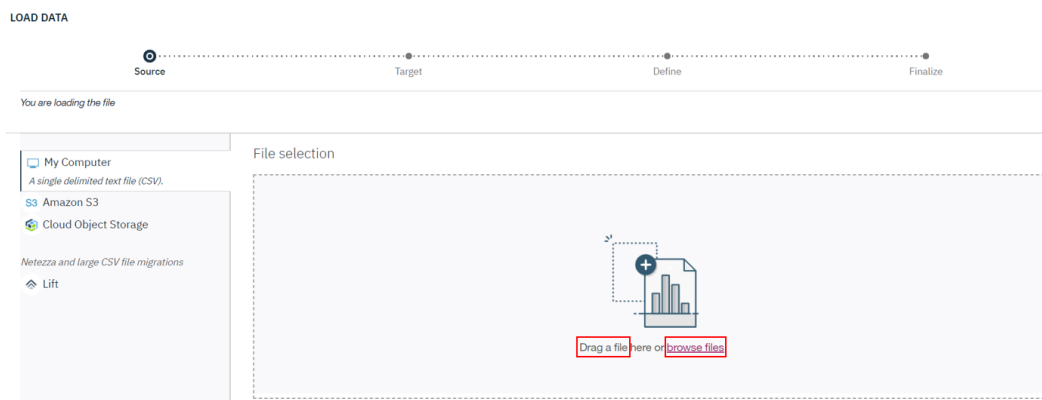
The name of the CSV file you have uploaded will appear in the **Selected file** section on the right.

Click **Next** to proceed.

7. You will be asked to select a **Schema** from a list of schema names.

NOTE: Select the schema name with a random mix of alphabets and numbers. It will be similar to, but not the same as, the one you see in the screenshot below (*MGJ73335*). The ones that you do NOT have to select are AUDIT, DB2INST1, ERRORSCHEMA, and ST_INFORMTN_SCHEMA (and sometimes you might also see SQLxxxxx as well).

Select a load target

Schema	
Find a schema	
AUDIT	
DB2INST1	
ERRORSCHEMA *Sample*	
MGJ73335	
ST_INFORMTN_SCHEMA *Sample*	

8. Click on **New Table**.

Schema	Table
Find a schema	*Find a table in MGJ73335*
AUDIT	
DB2INST1	
ERRORSCHEMA *Sample*	
MGJ73335 ✔	
ST_INFORMTN_SCHEMA *Sample*	

9. Enter the name **CARSALESTABLE** in the input box prompting you with *NEW TABLE NAME*.

Note: You will be using this table name in the SQL queries you will execute in the next exercise.

Now click on **Create** to create the new table.

Schema	Table	Create a new Table
Find a schema	*Find a table in MGJ73335*	*NEW TABLE NAME*
AUDIT		Create
DB2INST1		
ERRORSCHEMA *Sample*		
MGJ73335 ✔		
ST_INFORMTN_SCHEMA *Sample*		

10. A table by the name of **CARSALESTABLE** has been created.

Click **Next** at the bottom right of the page to proceed.

Schema	Table	Table definition
Find a schema	*Find a table in MGJ73335*	CARSALESTABLE — No statistics available
AUDIT	CARSALESTABLE ✔	Specify the table columns in the next step.
DB2INST1		
ERRORSCHEMA *Sample*		
MGJ73335 ✔		
ST_INFORMTN_SCHEMA *Sample*		

11. Click **Next** to proceed.

LOAD DATA

Source — Target — Define ········· Finalize

You are loading the file **exercise03_car_sales_data.csv** *into* **MGJ73335.CARSALESTABLE**

Code page (character encoding): 1208 (UTF-8) ⌄ ⑦   Separator: ,   Header in first row: ●   Time & date format: 🕐

	TITLE1 VARCHAR	TITLE2 VARCHAR	TITLE3 VARCHAR		
1	3300	350	Diesel	1995	Discovery
2	3500	200	Petrol	2003	Freelander
3	3550	255	Diesel	2001	Discovery
4	3700	124	Petrol	2005	Freelander
5	3900	290	Diesel	1998	Range Rover
6	6600	298	Diesel	1997	Discovery
7	6900	167	Gas	2003	Freelander
8	7000	190	Diesel	2004	Discovery
9	7800	355	Diesel	2003	Range Rover
10	8900	295	Gas	2000	Range Rover

Back   Next

12. Then click **Begin Load** to begin the process of loading the data from the CSV into your database.

LOAD DATA

Source — Target — Define — Finalize

You are loading the file **exercise03_car_sales_data.csv** *into* **MGJ73335.CARSALESTABLE**

Review settings

Summary

		Option
Code page:	1208 (Default)	Maximum number of warnings
Separator:	, (Default)	1000
Header in first row:	Yes (Default)	
Time format:	HH:MM:SS (Default)	
Date format:	YYYY-MM-DD (Default)	
Timestamp format:	YYYY-MM-DD HH:MM:SS (Default)	
String delimiter:	(Default)	

Back   Begin Load

13. Data from your CSV file is now loaded into your Db2 instance.

LOAD DATA

Load details

✓ COMPLETE	My computer exercise03_car_sales_data.csv	Target MGJ73335.CARSALESTABLE

Notifications 🔔

My Computer
exercise03_car_sales_data.csv

✓ COMPLETE   **Target**
MGJ73335.CARSALESTABLE

Clear All

Status   Settings

Errors ⓪   Warnings

29 Rows read   29 Rows loaded   0 Rows rejected

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

No errors

Start time
12/15/2020 11:49:33 PM
End time
12/15/2020 11:49:36 PM

Congratulations! You have successfully loaded data from a CSV file into the IBM Db2 instance you created in the previous lab.