

Create tables and load data in DB2

Time Effort: 30 mins

Objective:

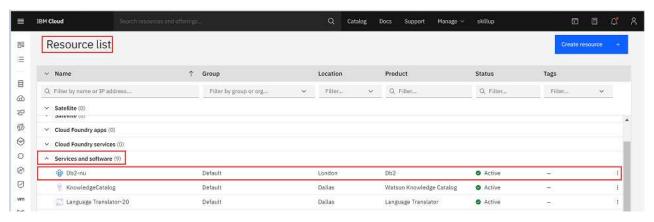
- 1. Create tables using CREATE query in db2
- 2. Load data in Db2

Pre-requisite:

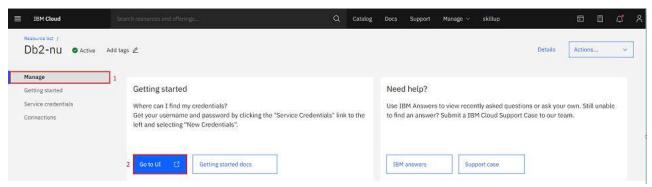
You need an IBM Cloud account to do this lab. If you don't have an account created already, click and open this link and follow the instructions, to create an IBM Cloud account.

Task A: Create tables using CREATE query in db2

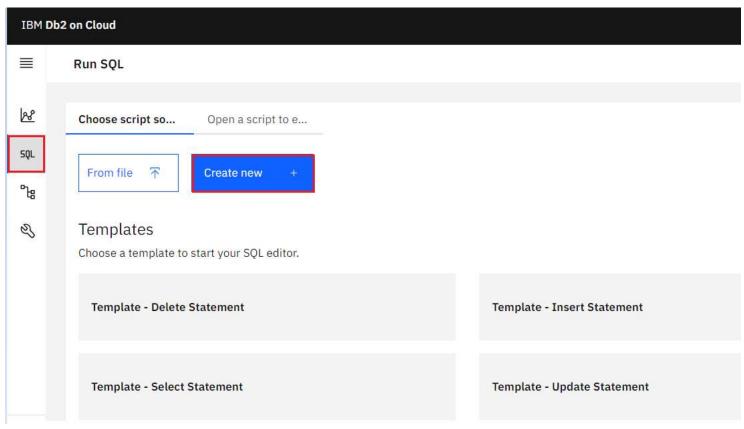
- 1. Login to IBM Cloud using https://cloud.ibm.com/
- 2. Go to Resource List and click Service and Software



- 3. Click on Db2 Service. If not, create the service using the instructions given in the link.
- 4. Click on Manage and then Go to UI.



5. Click on SQL and Create New + to create a new script.



6. Copy the below script and paste it in the SQL Editior.

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1. -- Create query for world_cities
 3. CREATE TABLE WORLD_CITIES (
4.
        CITY
                     VARCHAR(50),
         CITY_ASCII VARCHAR(50),
 5.
        LAT \overline{DECIMAL(20,2)},
 6.
         LNG DECIMAL(20,2),
 8.
         COUNTRY
                     VARCHAR(50),
         ISO2 VARCHAR(5),
 9.
         ISO3 VARCHAR(5),
10.
         ADMIN_NAME VARCHAR(100),
11.
         CAPITAL
                     VARCHAR(50),
12.
         POPULATION BIGINT,
13.
14.
         ID BIGINT NOT NULL
15.);
16.
17. -- Create query for bike_sharing
18.
19. CREATE TABLE BIKE_SHARING_SYSTEMS (
20.
        COUNTRY
                     VARCHAR(20),
21.
         CITY VARCHAR(87),
22.
         SYSTEM VARCHAR (40)
23.
        BICYCLES VARCHAR(5)
24.);
25.
26. -- Create query for cities_weather_forecast
27.
28. CREATE TABLE CITIES_WEATHER_FORECAST (
        CITY VARCHAR(16),
WEATHER VARCHAR(6)
29.
30.
         VISIBILITY SMALLINT,
31.
         TEMP DECIMAL(6,2),
32.
33.
         TEMP_MIN DECIMAL(6,2),
34.
         TEMP_MAX DECIMAL(6,2),
        PRESSURE SMALLINT, HUMIDITY SMALLINT.
35.
36.
37.
        WIND_SPEED DECIMAL(6,2),
         WIND_DEG SMALLINT,
38.
39.
         SEASON VARCHAR(6),
40.
         FORECAST_DATETIME TIMESTAMP
41.);
42.
43. -- Create query for seoul_bike_sharing
44.
45. CREATE TABLE SEOUL_BIKE_SHARING (
46.
         DATE VARCHAR(3\overline{0})
47.
         RENTED_BIKE_COUNT SMALLINT,
48.
        HOUR SMALLINT,
TEMPERATURE DECIMAL(4,1),
49.
        HUMIDITY SMALLINT,
50.
        WIND_SPEED DECIMAL(3,1),
51.
         VISIBILITY SMALLINT,
        DEW_POINT_TEMPERATURE DECIMAL(4,1),
53.
54.
         SOLAR_RADIATION DECIMAL(5,2),
55.
         RAINFALL DECIMAL(3,1),
        SNOWFALL DECIMAL(3,1)
56.
57.
         SEASONS
                     VARCHAR(10),
         HOLIDAY
                     VARCHAR(20)
         FUNCTIONING_DAY VARCHAR(5)
60.);
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The tables will be created and these will be marked with Green tick which means the tables created successfully.

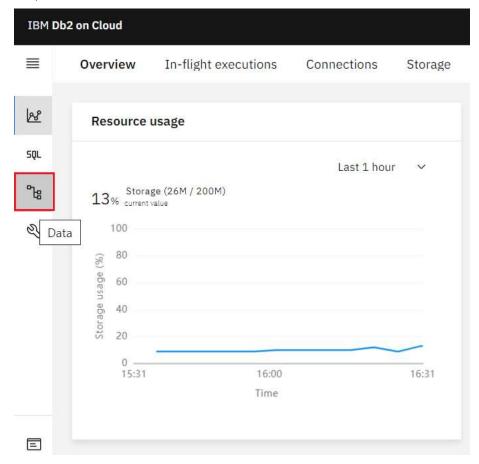
Tables Names are:

- WORLD CITIES
- BIKE_SHARING_SYSTEMS
- CITIES_WEATHER_FORECAST
- SEOUL_BIKE_SHARING

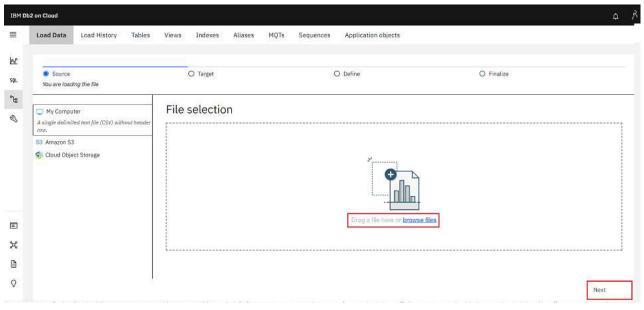
TASK B: Load the data in db2

Download the csv files:

- WORLD CITIES
- BIKE SHARING SYSTEMS
- <u>CITIES_WEATHER_FORECAST</u>
- SEOUL BIKE SHARING
- 1. Click on Go to UI and click Data icon.



2. Now, browse the file using option *Browse files* to load the csv file.



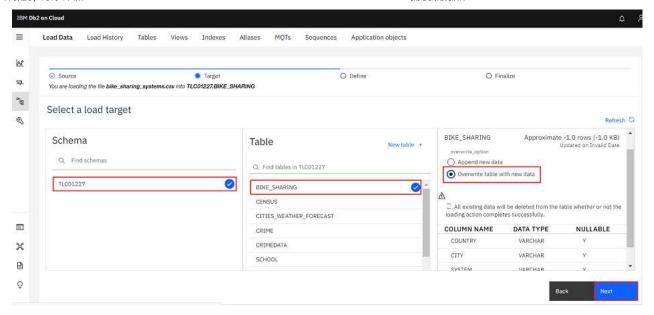
and click Next.

3. Select the schema which belong to you and click on the table you have already created. Use the option *Overwrite table with new data* to add data in already created table.

NOTE:

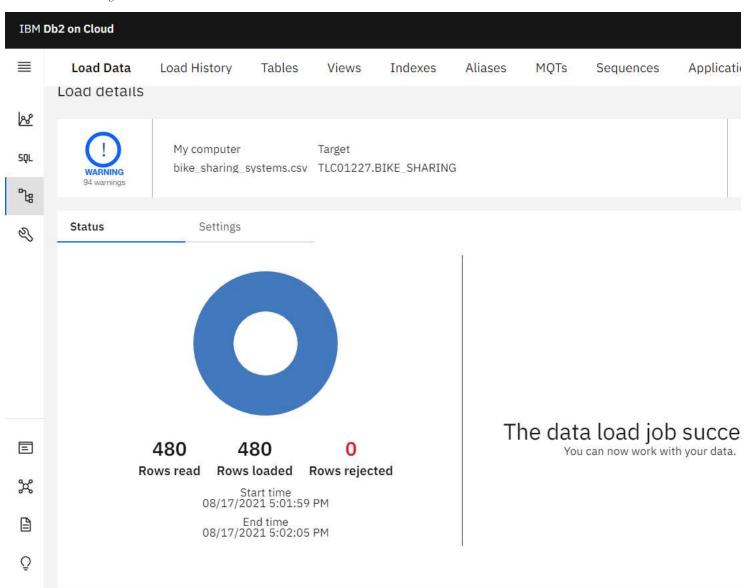
- · Schema name will not be same as shown in image.
- Here Bike_sharing table example is taken to load the data.

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and click Next.

4. Click Next and Begin Load.



In the same, load the other csv files using same steps in Task B for remaining 3 tables.

NOTE: You will be using the these tables in further lab.

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Other Contributor(s):

<u>Lakshmi Holla</u>

Changelog

Date	Version	Changed by	Change Description
2023-05-10	1.2	Eric Hao & Vladislav Boyko	Updated Page Frames
2021-10-20	1.1	Lakshmi Holla	cloud account changes
2021-08-17	1.0	Malika Singla	Initial Version

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about:blank 6/6