

# Create tables and load data in DB2

Time Effort: 30 mins

## Objective:

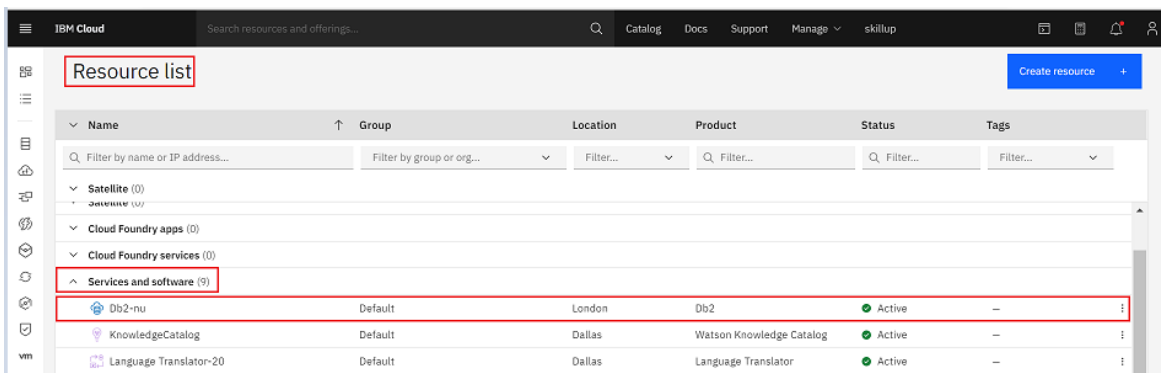
1. Create tables using CREATE query in db2
2. Load data in Db2

## 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.

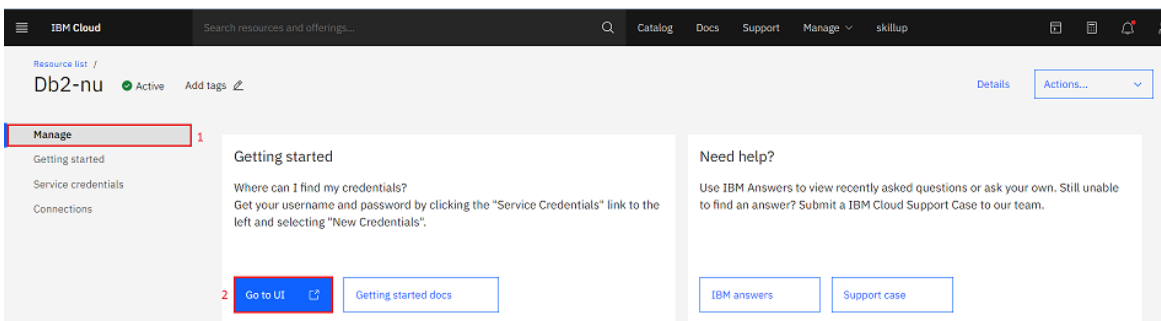
## Task A: Create tables using CREATE query in db2

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



Name	Group	Location	Product	Status	Tags
Satellite (0)					
Cloud Foundry apps (0)					
Cloud Foundry services (0)					
Services and software (9)					
Db2-nu	Default	London	Db2	Active	—
KnowledgeCatalog	Default	Dallas	Watson Knowledge Catalog	Active	—
Language Translator-20	Default	Dallas	Language Translator	Active	—

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*.



Resource list / Db2-nu Active Add tags

Details Actions...

Manage 1

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".

Need help?

Use IBM Answers to view recently asked questions or ask your own. Still unable to find an answer? Submit a IBM Cloud Support Case to our team.

Go to UI 2

Getting started docs

IBM answers

Support case

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



## Run SQL



Choose script so...

Open a script to e...

SQL

From file



Create new



## Templates

Choose a template to start your SQL editor.

Template - Delete Statement

Template - Insert Statement

Template - Select Statement

Template - Update Statement

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

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60. 60

1. -- Create query for world_cities
2.
3. CREATE TABLE WORLD_CITIES (
4.     CITY          VARCHAR(50),
5.     CITY_ASCII VARCHAR(50),
6.     LAT DECIMAL(20,2),
7.     LNG DECIMAL(20,2),
8.     COUNTRY       VARCHAR(50),
```

```

9.     ISO2 VARCHAR(5),
10.    ISO3 VARCHAR(5),
11.    ADMIN_NAME VARCHAR(100),
12.    CAPITAL   VARCHAR(50),
13.    POPULATION BIGINT,
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 (
29.     CITY VARCHAR(16),
30.     WEATHER VARCHAR(6),
31.     VISIBILITY SMALLINT,
32.     TEMP DECIMAL(6,2),
33.     TEMP_MIN DECIMAL(6,2),
34.     TEMP_MAX DECIMAL(6,2),
35.     PRESSURE SMALLINT,
36.     HUMIDITY SMALLINT,
37.     WIND_SPEED DECIMAL(6,2),
38.     WIND_DEG SMALLINT,
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(30),
47.     RENTED_BIKE_COUNT SMALLINT,
48.     HOUR SMALLINT,
49.     TEMPERATURE DECIMAL(4,1),
50.     HUMIDITY SMALLINT,
51.     WIND_SPEED DECIMAL(3,1),
52.     VISIBILITY SMALLINT,
53.     DEW_POINT_TEMPERATURE DECIMAL(4,1),
54.     SOLAR_RADIATION DECIMAL(5,2),
55.     RAINFALL DECIMAL(3,1),
56.     SNOWFALL DECIMAL(3,1),
57.     SEASONS   VARCHAR(10),
58.     HOLIDAY   VARCHAR(20),
59.     FUNCTIONING_DAY VARCHAR(5)
60. );

```

Copied!

The tables will be created and these will be marked with *Green tick* which means the tables created successfully.

Tables Names are:

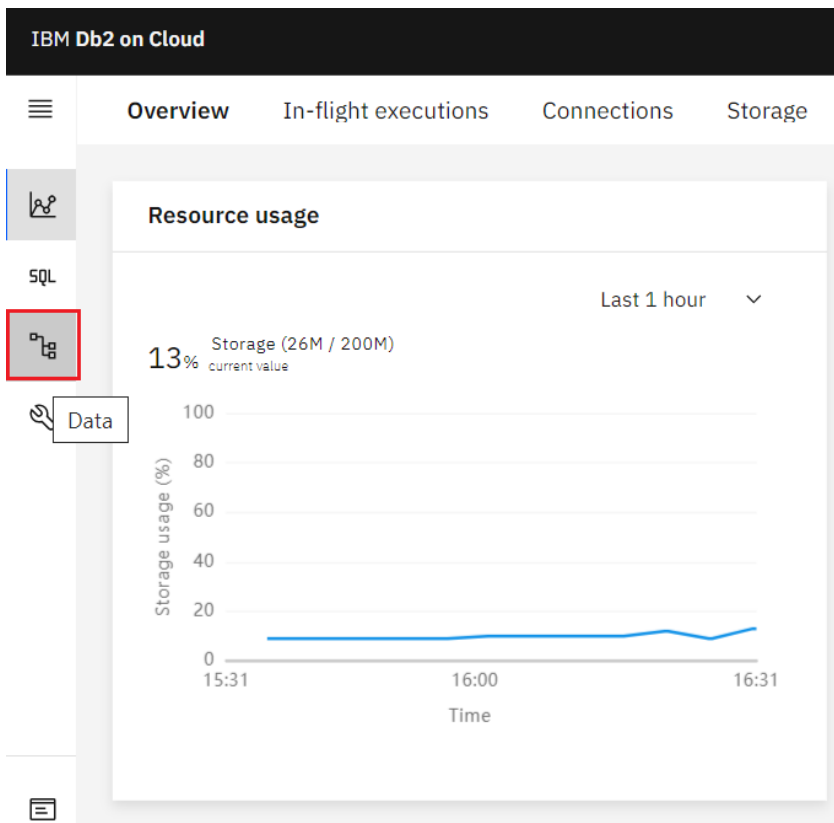
- WORLD\_CITIES
- BIKE\_SHARING\_SYSTEMS
- CITIES\_WEATHER\_FORECAST
- SEOUL\_BIKE\_SHARING

## TASK B: Load the data in db2

Download the csv files:

- [WORLD\\_CITIES](#)
- [BIKE\\_SHARING\\_SYSTEMS](#)
- [CITIES\\_WEATHER\\_FORECAST](#)
- [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.

IBM Db2 on Cloud

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

Source Target Define Finalize

You are loading the file

My Computer  
A single delimited text file (CSV) without header row.

Amazon S3

Cloud Object Storage

File selection

Drag a file here or [browse files](#)

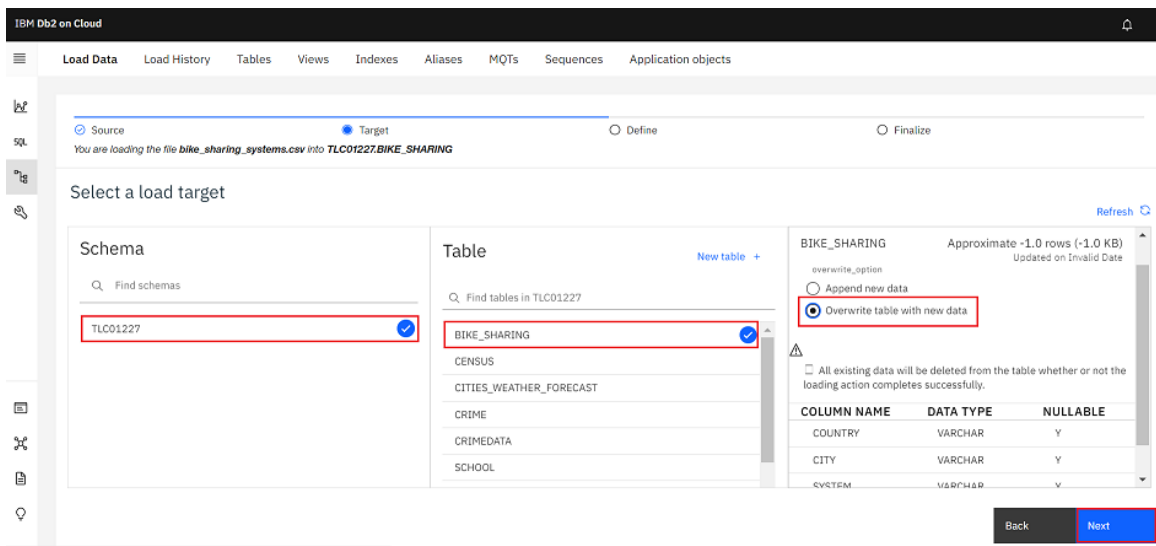
Next

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.

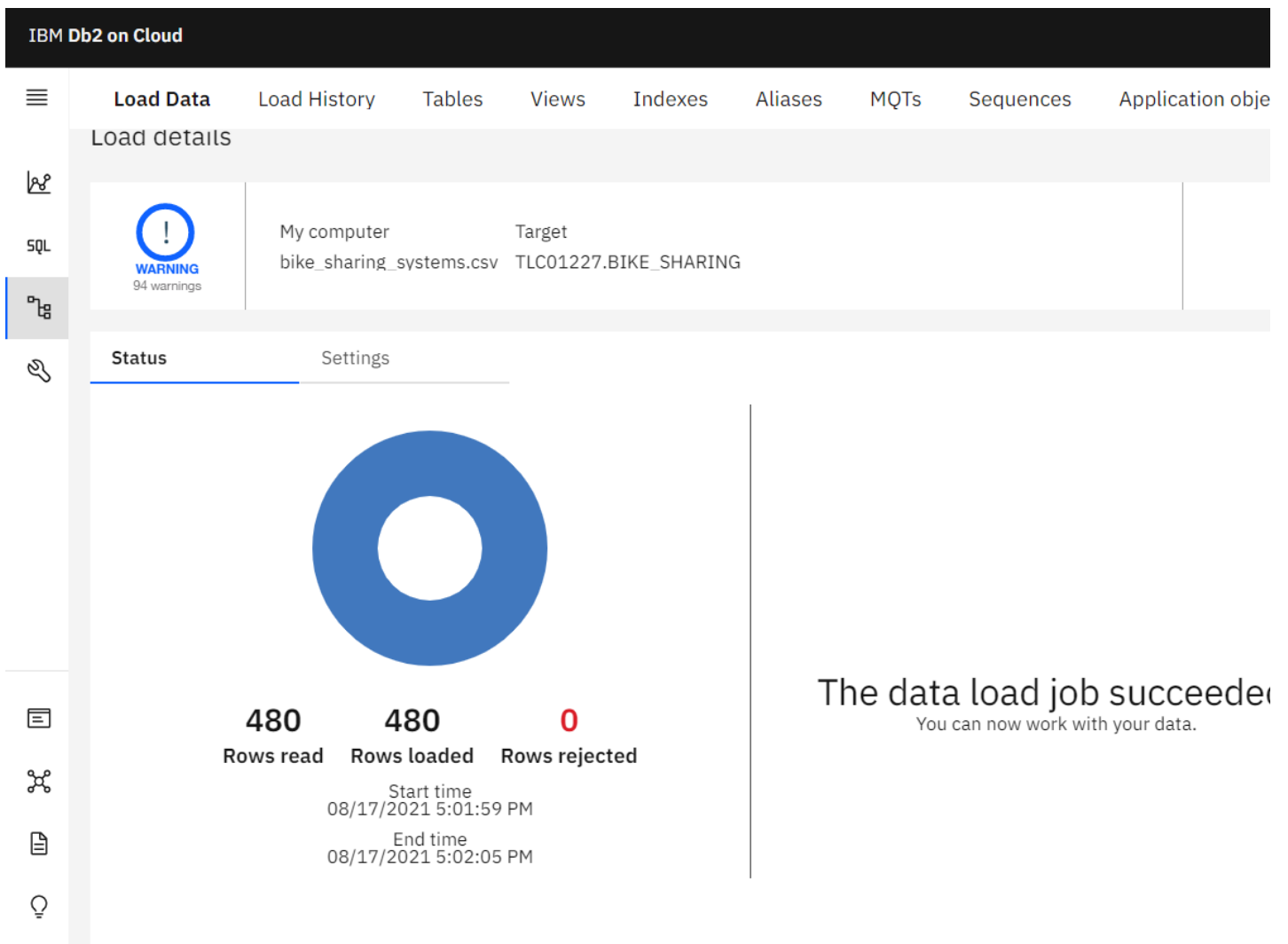
NOTE:

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



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 these tables in further lab.

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## Changelog

Date	Version	Changed by	Change Description
2023-05-10	1.2	Eric Hao & Vladislav Boyko	Updated Page Frames

Date	Version	Changed by	Change Description
2021-10-20	1.1	Lakshmi Holla	cloud account changes
2021-08-17	1.0	Malika Singla	Initial Version

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