



## Hands-on Lab: Create Db2 service instance and Get started with the Db2 console

**Estimated time needed:** 15 minutes

From now on, the hands-on labs for this course require an environment for working with a relational database. To get you up and running quickly we will do so on the Cloud, so you don't have to worry about downloading or



installing anything, rather, simply access your database from your web browser. IBM Cloud provides a large number of Data and Analytics services, including IBM Db2, a next generation SQL database.

### Objectives

After completing this lab, you will be able to:

- Use IBM cloud account to create and use resources
- Create an instance of a Db2 service
- Locate and explore the Db2 console

### Pre-requisites

You will need an IBM Cloud account to do this lab. If you have not created one already, click on this [link](#) and follow the instructions to create an IBM Cloud account.

#### Task 1: Create an instance of IBM Db2 Lite plan

Now let us introduce you to Db2 on IBM Cloud. IBM Db2 is a next generation SQL database provisioned for you in the cloud. You can use Db2 on IBM Cloud just as you would use any database software (RDBMS), but without the overhead and expense of hardware setup or software installation and maintenance. Among the service plans offered for Db2 on IBM Cloud is the Lite plan, which is free to use. You can use your database instance to store relational data, analyze data using a built-in SQL editor, or by connecting your own apps.

Note that IBM Cloud also provides other variants of Db2 such as Db2 Hosted and Db2 Warehouse on Cloud, which is also referred to in this course. However, for the labs in this course, we will utilize the Db2 service since it comes with a Lite plan which is free to use.

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

1. Login to [IBM Cloud](#)
2. Go to [the DB2 Services page on IBM Catalog](#).

The screenshot displays the IBM Cloud catalog interface. At the top, there is a navigation bar with the IBM Cloud logo, a search bar, and links for Catalog, Manage, and the user's account (Shreya Khurana's Acco...). Below the navigation bar, there is a search bar and links for 'Sell on IBM Cloud' and 'Catalog settings'. The main content area is a grid of service cards. The 'Db2' service card is highlighted with a red border. The 'Db2' card includes the following text: 'A fully managed, highly-performant relational data store running the enterprise-class Db2 database engine.' and 'Lite • Free • EU Supported • HIPAA Enabled • IAM-enabled • IBM supported'. Other visible cards include 'DataStage', 'PostgreSQL', 'Redis', and 'Db2 Warehouse'.

Service	Description	Features
DataStage	Build mission critical web applications that offer high performance with scalability and security.	EU Supported • HIPAA Enabled • IAM-enabled • Service Endpoint Supported • IBM supported
PostgreSQL	PostgreSQL is a powerful, open source object-relational database that is highly customizable.	Satellite Enabled • EU Supported • HIPAA Enabled • IAM-enabled • Service Endpoint Supported • IBM supported
Redis	Redis is a blazingly fast, in-memory data structure store.	Satellite Enabled • EU Supported • HIPAA Enabled • IAM-enabled • Service Endpoint Supported • IBM supported
DataStage	Create ETL and data pipeline services for real-time, micro-batch, and batch data orchestration.	Lite • Free • IAM-enabled • IBM supported
Db2	A fully managed, highly-performant relational data store running the enterprise-class Db2 database engine.	Lite • Free • EU Supported • HIPAA Enabled • IAM-enabled • IBM supported
Db2 Warehouse	Db2 Warehouse on Cloud is a flexible and powerful data warehouse for enterprise-level analytics.	HIPAA Enabled • IAM-enabled • IBM supported

3. Select a location where you want the service to be hosted.

**Note:** Depending on the Country of your IBM Cloud account, a location to deploy will be pre-selected. For example, if you are in the US, the default region will be Dallas. Users from the UK will see London and so on. Select either **DALLAS** or **LONDON** as the location. Make sure a **Region** is selected as the location, not a **Data center**.

cloud.ibm.com/catalog/services/db2 **1**

IBM Cloud Search resources and offerings... Catalog Docs Su

Catalog / Services /

Db2

Author: IBM • Date of last update: 09/21/2020 • Docs • API docs

Create About

Select a region

Select a region

London

4. Scroll down to the Pricing Plans section and select the **Lite plan** (it's a free plan, and available only in **DALLAS** and **LONDON** at this point of time) or any other plans as required.
5. Then click on the **Create** button towards the lower-right of the page. It will spin for a few seconds (typically less than 30s) and then you should see a Service Created message indicating that your instance of Db2 was created successfully.

Plan	Features	Pricing
<b>Lite</b> <b>2</b>	200 MB of data storage 15 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.**

**3** **Create**

Add to

View term

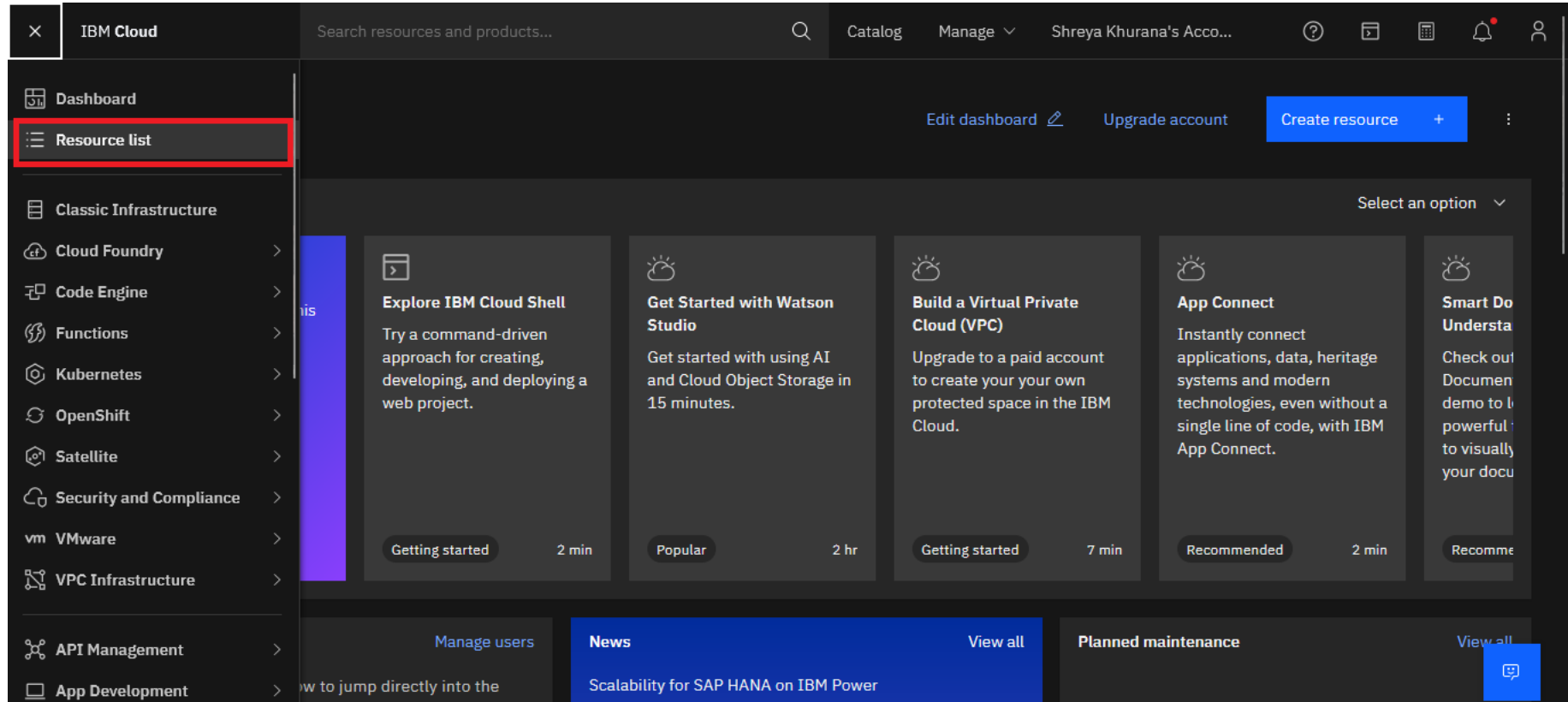
## Task 2: Locate and Explore the Db2 console

Now that you have created your database instance, you need to know how to get to it, explore the console and start working with it.

- **NOTE:** You are not required to compose and run any SQL query on this exercise.

1. To access your database instance, go to your IBM Cloud Resource List (you may need to log into IBM Cloud in the process) directly at: [cloud.ibm.com/resources](https://cloud.ibm.com/resources)

- **Alternative:** Go to your IBM Cloud account (you may need to log into IBM Cloud in the process) at: [cloud.ibm.com](https://cloud.ibm.com) and click **Resource List**.




2. In the Resource list, expand the **Databases** heading and locate and click on your instance of Db2 you provisioned in exercise 2 (the name typically starts with Db2-xx for example Db2-fk, Db2-50, etc.)

3. Click on the **Go to UI** button.

Resource list /

# Db2-pr

✓ Active   Add tags 

- Manage**
- Getting started
- Service credentials
- Connections

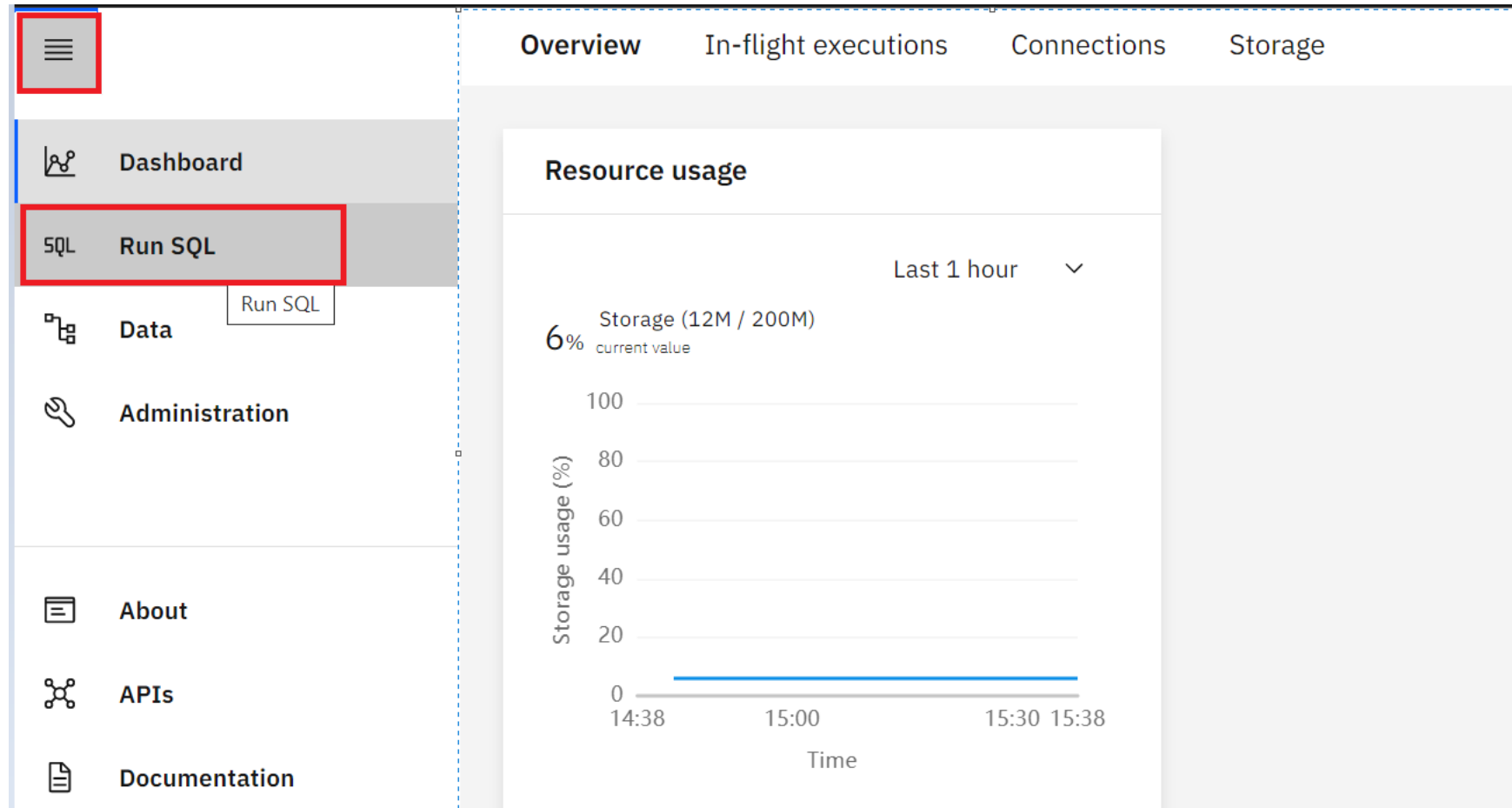
## Getting started

Where can I find my credentials?

Get your username and password by clicking the "Service Credentials" link to the left and selecting "New Credentials".

[Go to UI !\[\]\(f8e7be3c2bd30232a05cdc54a8b2d22a\_img.jpg\)](#) [Getting started docs](#)

4. The Db2 console will open in a new tab in your web browser. Click on the 3-bar menu icon in the top left corner and then click on **RUN SQL**.



5. On the next screen click on the + button and then click on **Create new**.

IBM Db2 on Cloud

5QL

Data objects

Saved objects

Find objects

DMT80331

\* Untitled ...

+

</>

T

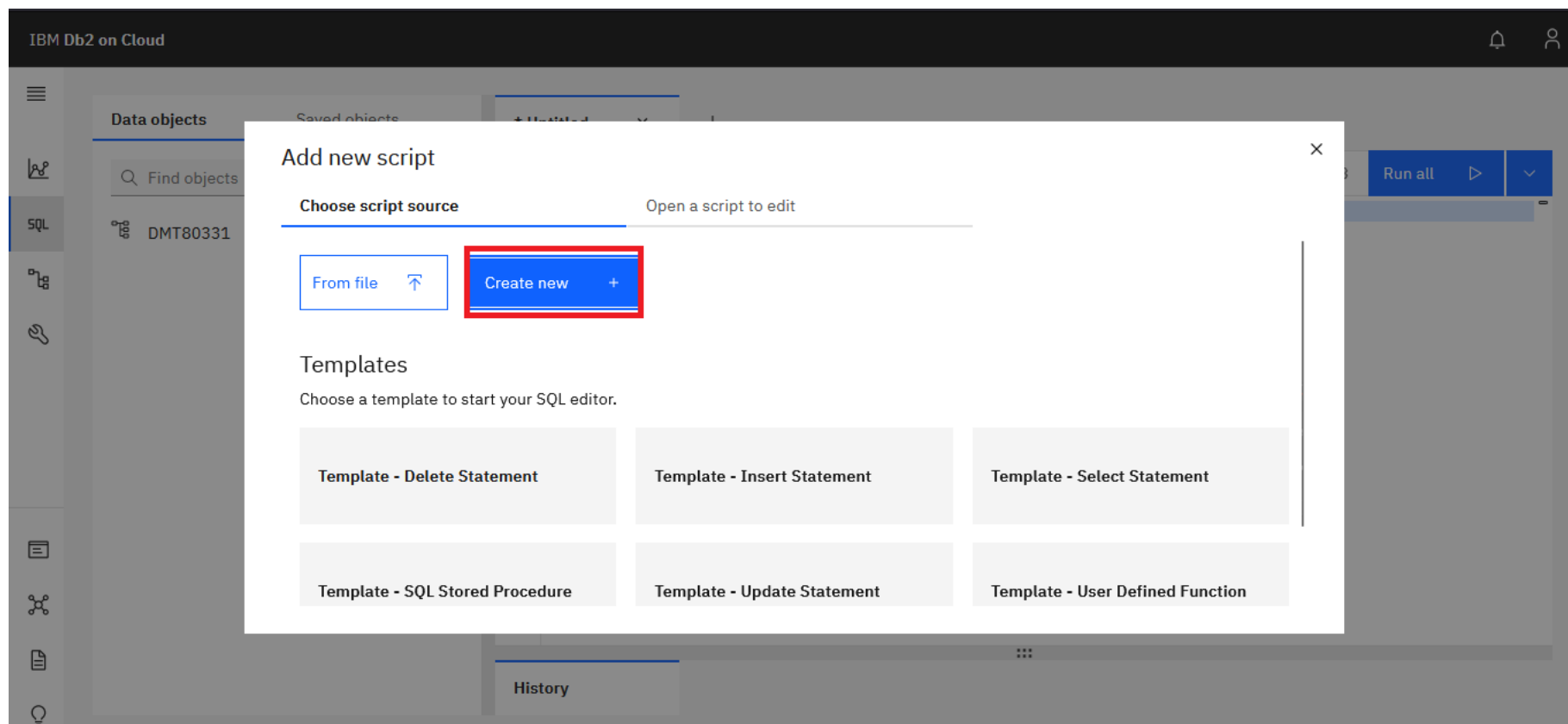
Syntax assistant

Run all

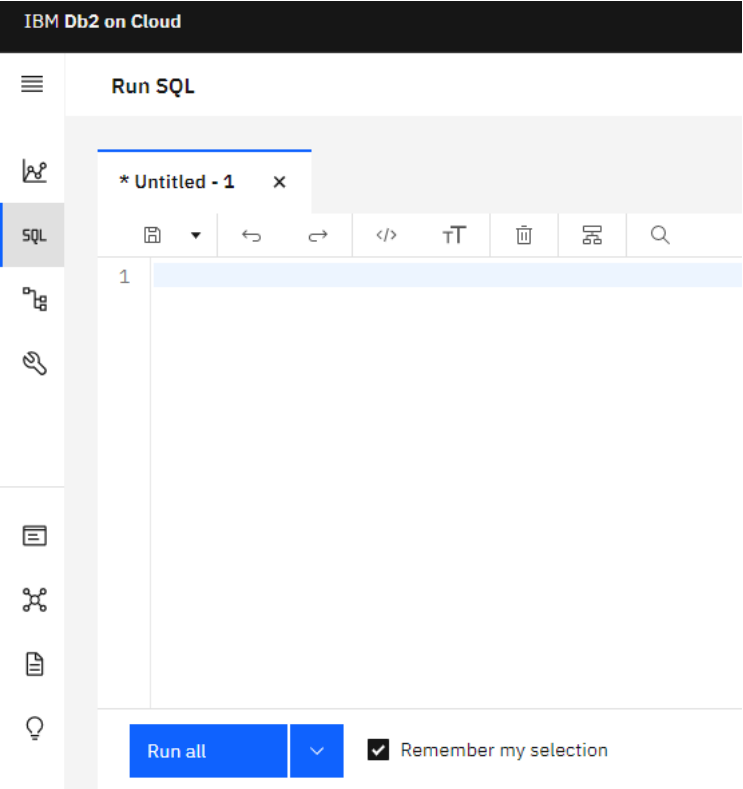
1

History





6. The SQL editor will open where you can start typing and running queries.



7. The SQL editor has several areas for performing different tasks.

IBM Db2 on Cloud

\*Untitled ... x +

Syntax assistant

Run all

1 SELECT \* FROM BILLING\_TEST;

INSERT YOUR SQL QUERIES HERE

CLICK HERE TO RUN THE QUERIES

History

Find history

Script	Date	Status	Runtime
Untitled - 1	Mar 15, 2023 12:19:58 PM	✓ 1	0.012 s
SELECT * FROM BILLING_TEST		✓	0.012 s

GREEN MARK INDICATES SUCCESS

8. Click on the + icon if you want to add a new script for composing queries and then select **Create new**.

IBM Db2 on Cloud

\*Untitled ... x + Add new script

Syntax assistant

Run all

1 SELECT \* FROM BILLING\_TEST;

9. When you are asked in the upcoming labs, compose the appropriate SQL query for each problem and run by clicking **Run all**.

10. When you will run the script, by looking at the History section of the executed queries you will know whether the SQL statements ran successfully or not.

HistoryResults

Find history

Script	Date	Status	Runtime
Untitled - 1	Mar 14, 2023 6:32:56 PM	2	0.009 s
INSERT INTO BILLING_TEST VALUES(101, 'CLOTHES', 'INDIA', 'FASHION', 'MARCH', '2000')			0.005 s
SELECT * FROM BILLING_TEST			0.004 s

11. By clicking on each of the executed queries in the History section, you can see the result of that query. If the query has failed, you can see the error details.

HistoryResults

Result set 1Details

Filter table

Total:1

CUSTOMERID	CATEGORY	COUNTRY	INDUSTRY	MONTH	BILLEDAMOUNT
101	CLOTHES	INDIA	FASHION	MARCH	2000

Summary

You can now find your way into and around the database instance, and you will use these skills in later labs.

**Congratulations! You have completed this lab, and you are ready for the next topic.**

Author(s)

- [Rav Ahuja](#)
- [Sandip Saha Joy](#)

Other Contributor(s)

Changelog

Date	Version	Changed by	Change Description
15-03-2023	2.7	Shreya Khurana	Updated screenshots and instructions
16-02-2023	2.6	Shreya Khurana	Updated screenshots
23-08-2022	2.5	Appalabhaktula Hema	Updated instructions
11-05-2022	2.4	Hema	Updated instruction
28-04-2022	2.3	Hema	Updated screenshots
08-07-2021	2.2	Malika	Updated screenshots
23-12-2020	2.1	Steve Ryan	ID Review
07-12-2020	2.0	Sandip Saha Joy	Created revised version from DB0201EN

Date	Version	Changed by	Change Description
06-03-2020	1.0	Rav Ahuja	Created initial version

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