

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.

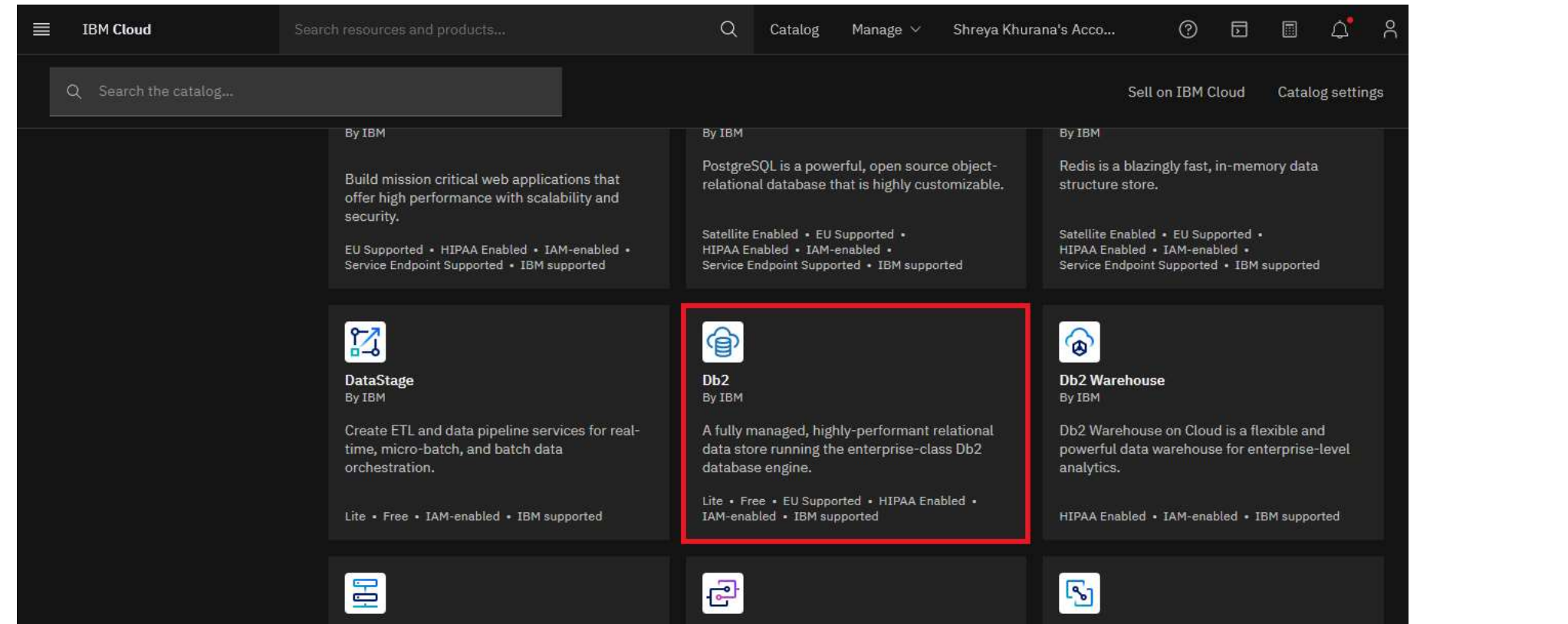
Please follow the steps given below to provision an instance of Db2 on IBM Cloud.

1. Login to [IBM Cloud](#)



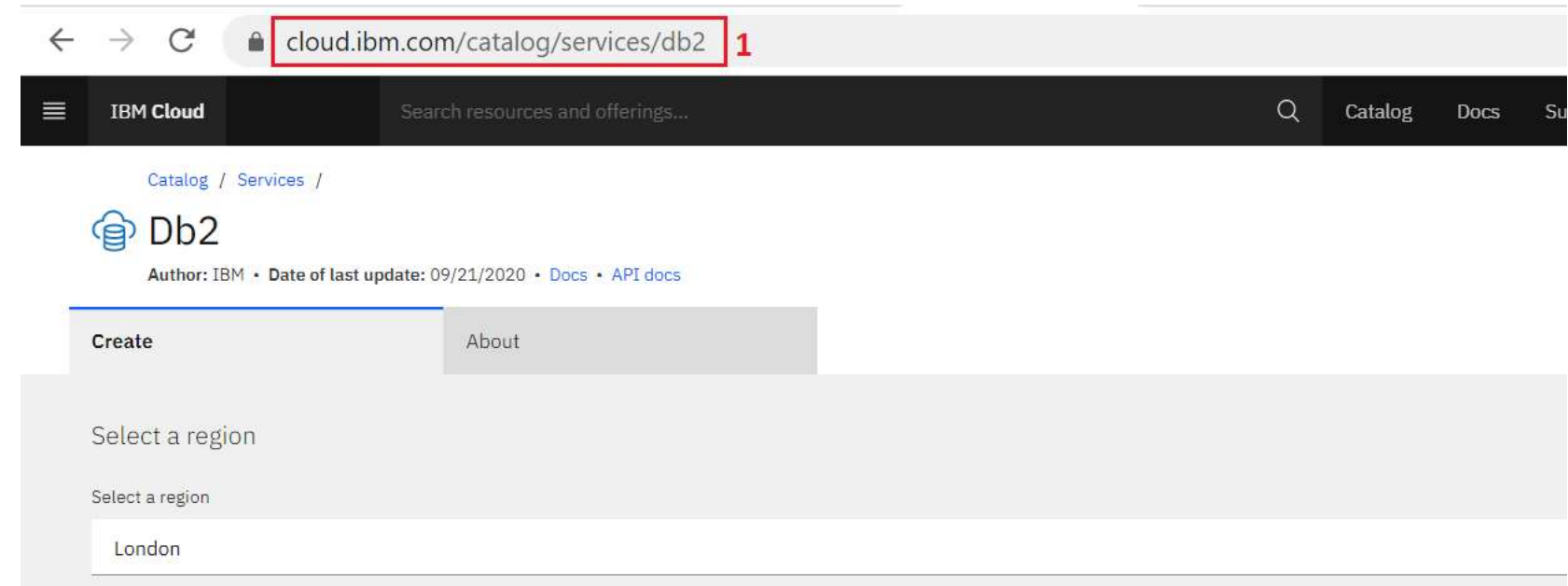
IBM Cloud

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



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**.



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

Lite 2

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

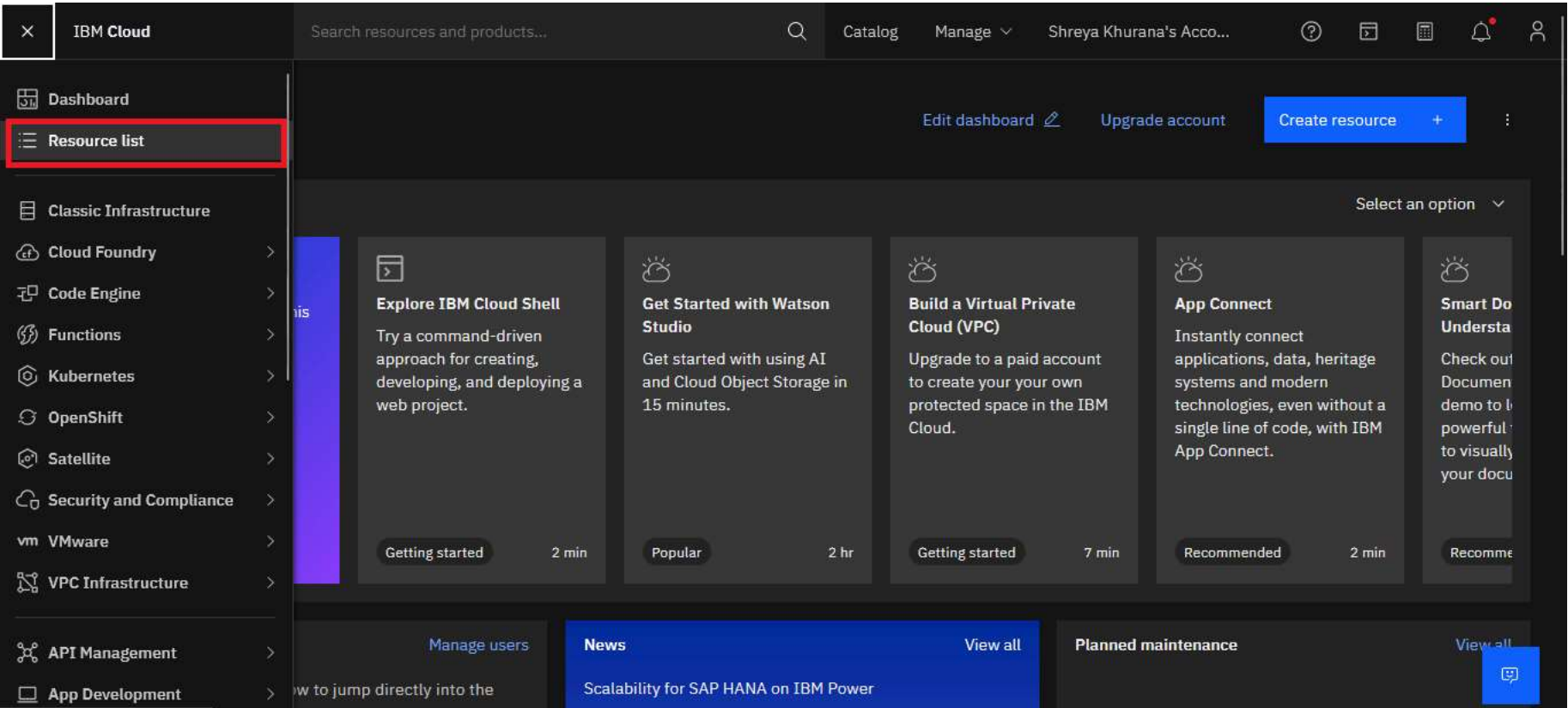
Add to

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
 - **Alternative:** Go to your IBM Cloud account (you may need to login to IBM Cloud in the process) at: 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-flk, Db2-50, etc.)

	Name	Group	Location	Product	Status	Tags
	Filter by name or IP address...	Filter by group or org...	Filter...	Filter...	Filter...	Filter...
	Storage (1+)					
	AI / Machine Learning (4+)					
	Analytics (0)					
	Blockchain (0)					
	Databases (1)					
	Db2-pg	Default	London	Db2	Active	—
	Developer tools (0+)					
	Logging and monitoring (0)					
	Migration (0)					
	Integration (0+)					
	Internet of Things (0)					
	Security (0)					

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

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**.

Dashboard

SQL Run SQL

Data

Administration

About

APIs

Documentation

Overview

In-flight executions

Connections

Storage

Resource usage

Last 1 hour

6% Storage (12M / 200M)

current value

100

80

60

40

20

0

14:38

15:00

15:30

15:38

Storage usage (%)

Time

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

IBM Db2 on Cloud

Data objects

Saved objects

Find objects

DMT80331

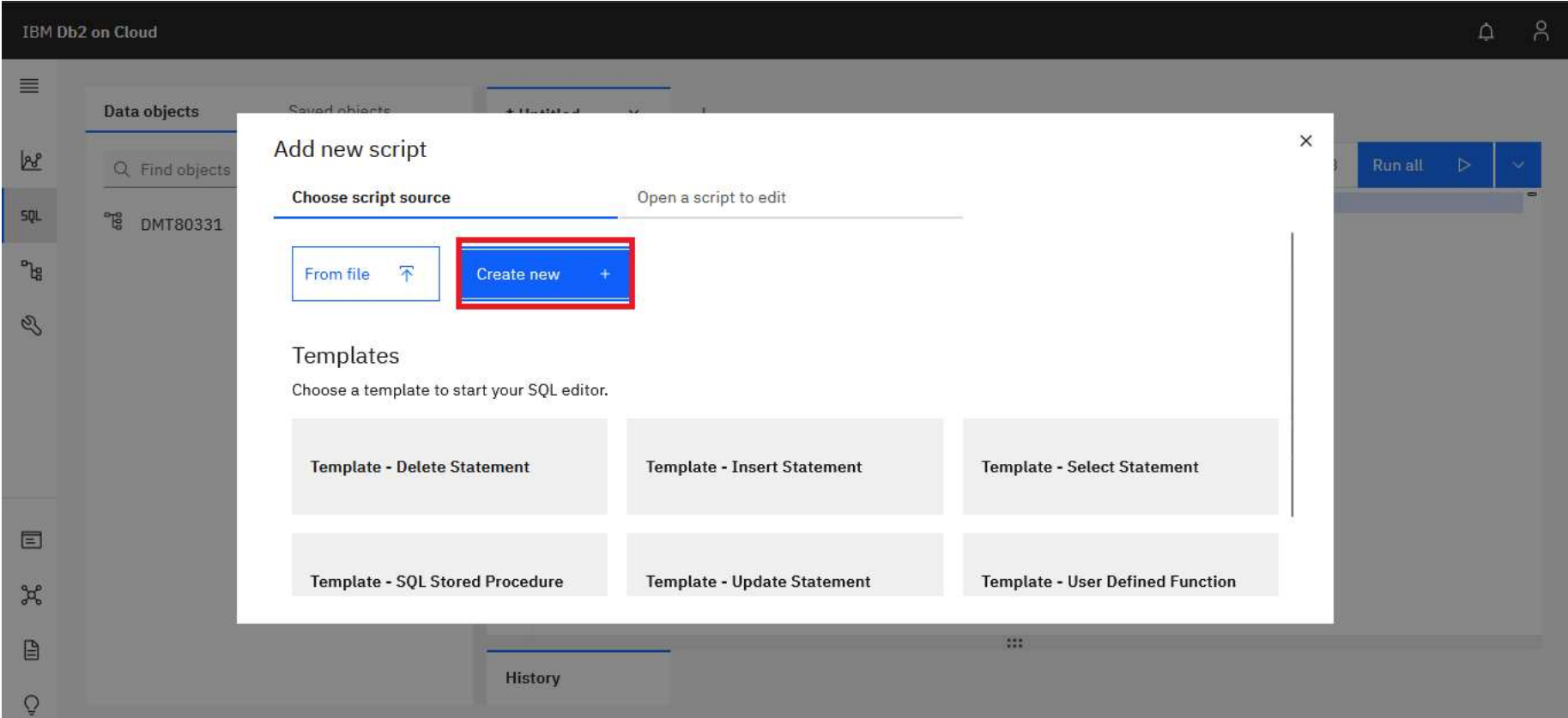
* Untitled ...

+

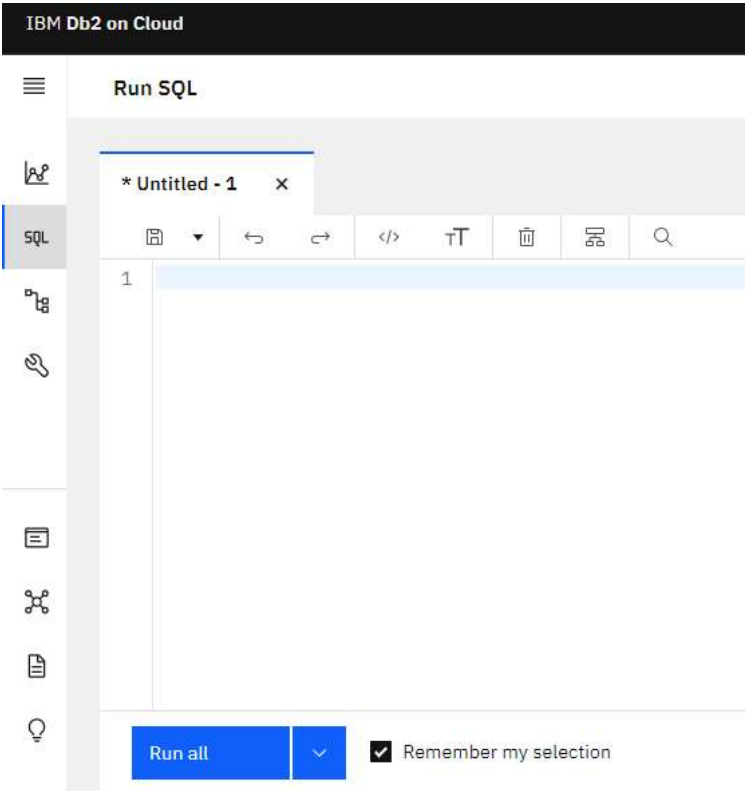
Syntax assistant

Run all

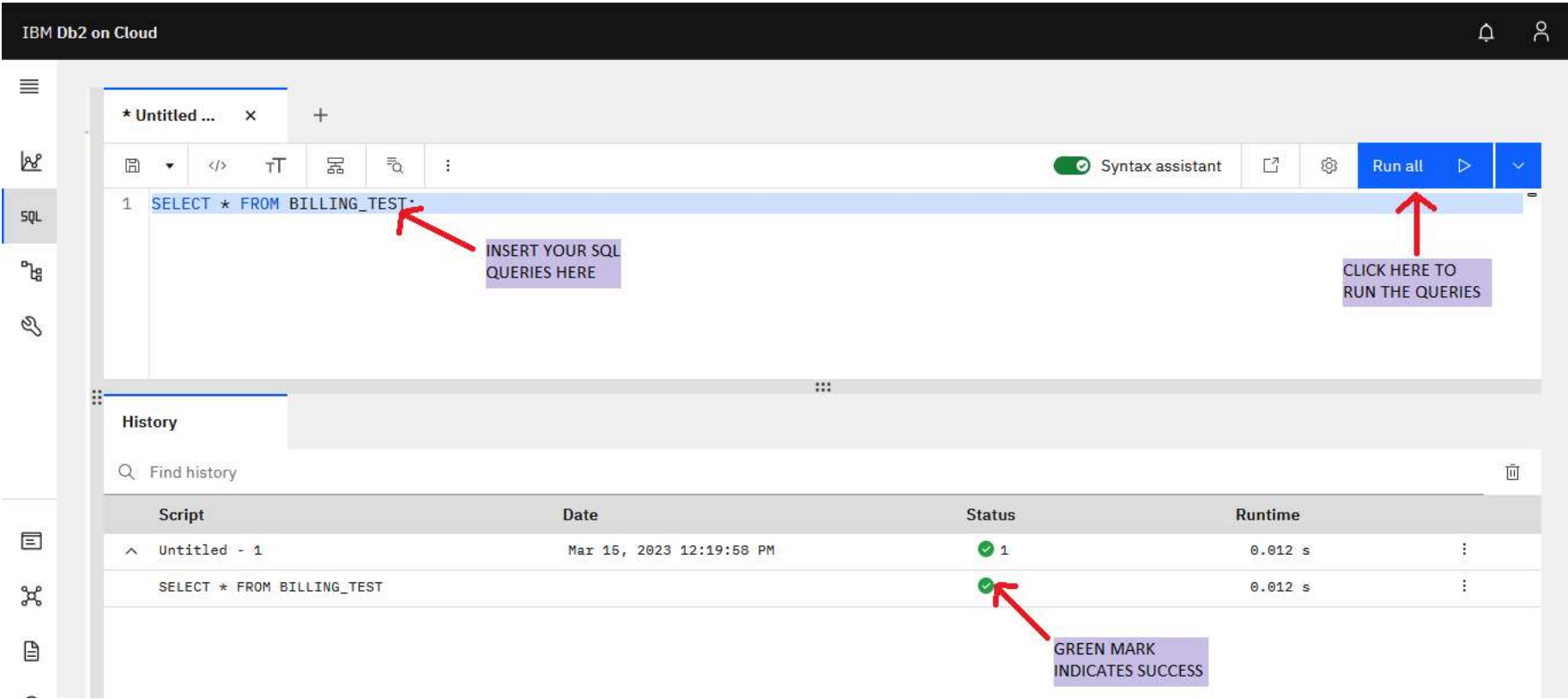
History



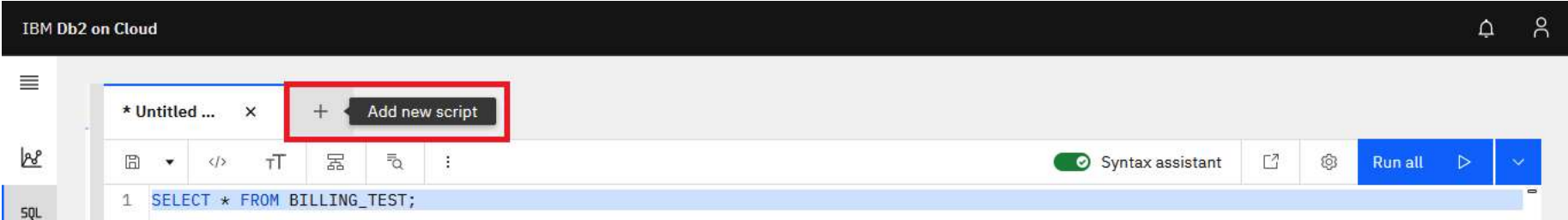
6. The SQL editor will open where you can start typing and running queries.



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



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



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.

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Skills Network