

# 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](#).

The screenshot shows the IBM Cloud Catalog interface. At the top, there is a search bar and navigation links for 'Catalog', 'Manage', and 'Shreya Khurana's Acco...'. Below the search bar, a grid of service cards is displayed. The 'Db2' service card is highlighted with a red border. The card for 'Db2' 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'.

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
<b>Lite</b> <span style="border: 1px solid red; padding: 0 2px;">2</span>	<b>200 MB of data storage</b> 15 simultaneous connections Shared multitenant system	Free
<p>The Free plan provides a free Db2 service for development and evaluation. The plan has a set amount of limit shown. You can continue using the free plan for as long as needed, however, users are asked to re-extend the account every 90 days by email. If you do not re-extend, your free account is cleaned out a further 90 days later to help provide free resources for everyone.</p> <p><b>Lite plan services are deleted after 30 days of inactivity.</b></p>		

## 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 login to IBM Cloud in the process) at: [cloud.ibm.com](https://cloud.ibm.com) and click **Resource List**.

IBM Cloud

Search resources and products...

Catalog

Manage

Shreya Khurana's

Dashboard

Resource list

Classic Infrastructure

Cloud Foundry

Code Engine

Functions

Kubernetes

OpenShift

Satellite

Security and Compliance

VMware

VPC Infrastructure

API Management

App Development

Edit dashboard

Upgrade

Explore IBM Cloud Shell

Try a command-driven approach for creating, developing, and deploying a web project.

Getting started2 min

Get Started with Watson Studio

Get started with using AI and Cloud Object Storage in 15 minutes.

Popular2 hr

Build a Virtual Private Cloud (VPC)

Upgrade to a paid account to create your your own protected space in the IBM Cloud.

Getting started7 min

Manage users

News

View all

Planned maintenance

How to jump directly into the

Scalability for SAP HANA on IBM Power

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.)

Name	Group	Location	Product	Status
Filter by name or IP address...	Filter by group or org...	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

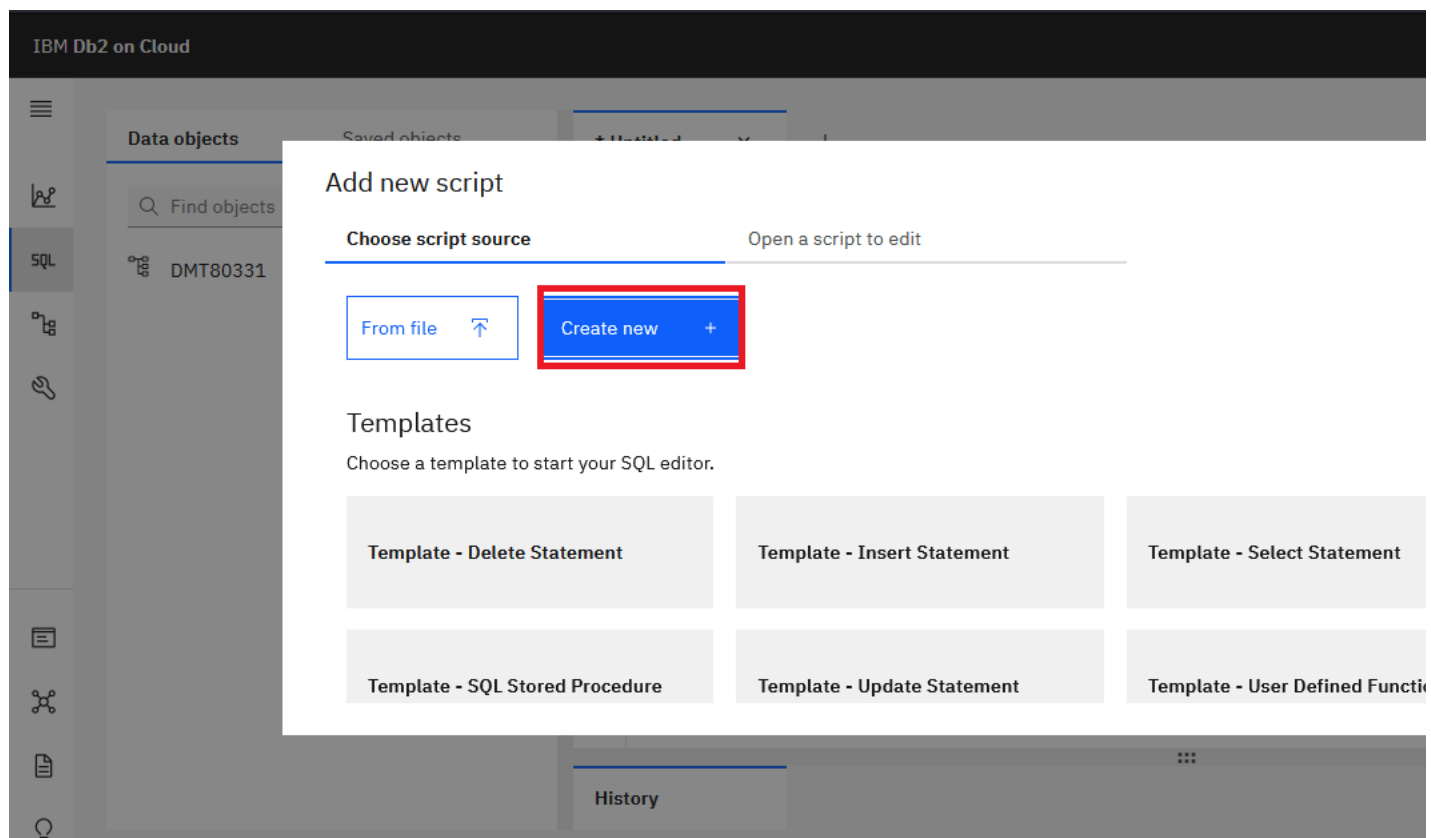
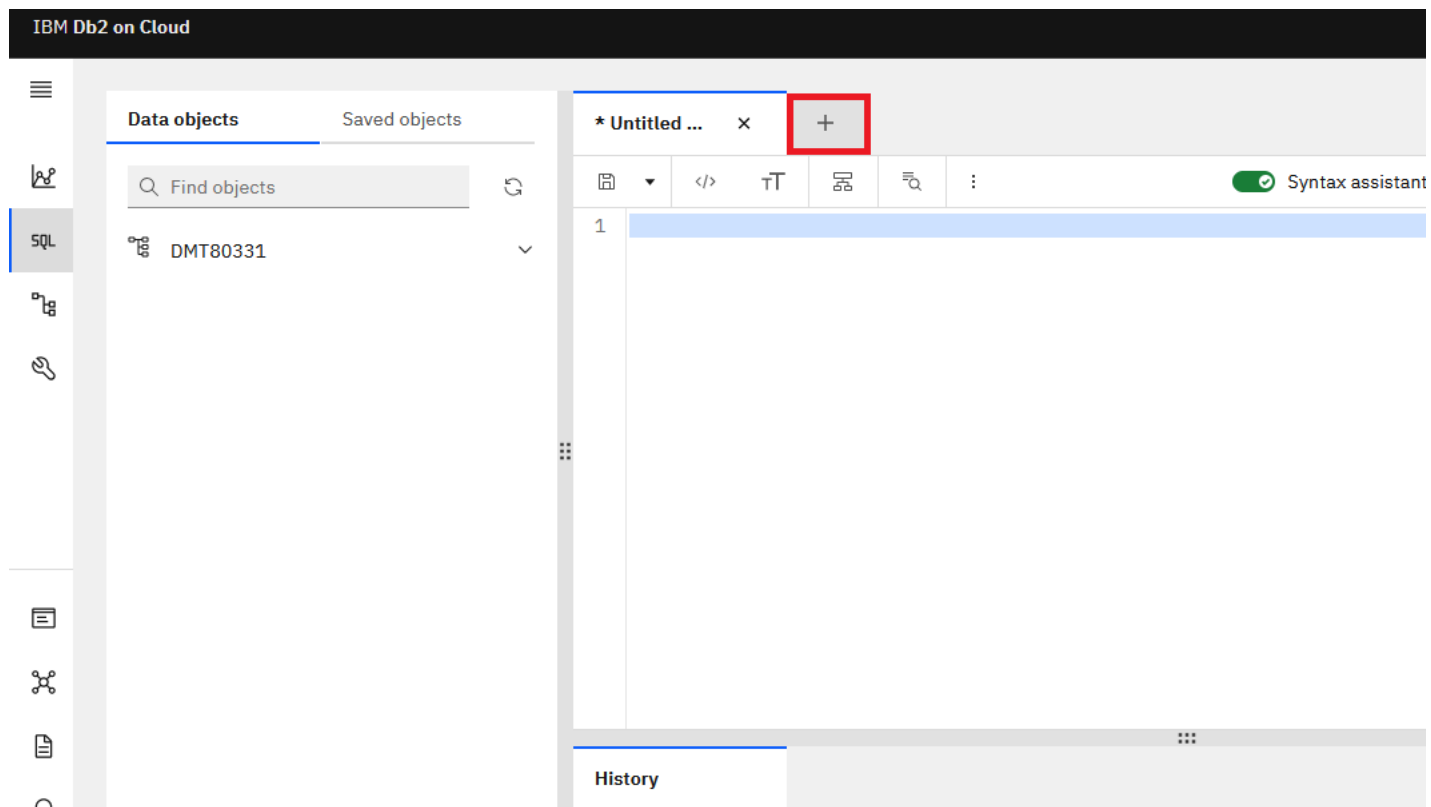
Where can I find my credentials?  
Get your username and password by clicking the "Service Credentials" link to the left and selecting "New Credentials"

[Go to UI](#) [🔗](#)   [Getting started docs](#)

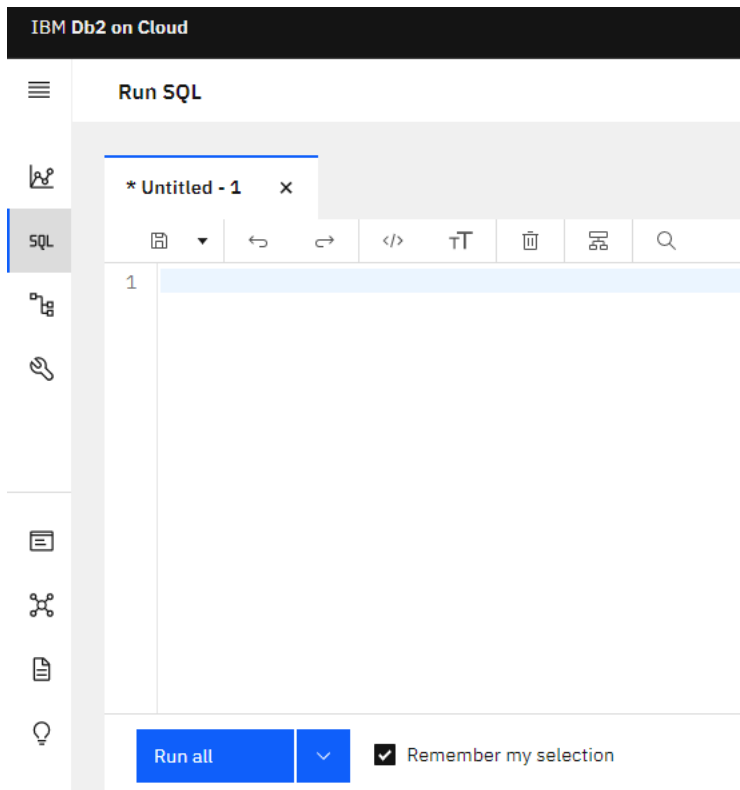
4. The Db2 console will open in a new tab in your web browser. Click on the 3-bar menu icon in the top left corner and then click on **RUN SQL**.

The screenshot shows the Db2 console interface. On the left, a sidebar menu is visible with the following items: Dashboard, **SQL Run SQL** (highlighted with a red box), Data, Administration, About, APIs, and Documentation. A red box also highlights the 3-bar menu icon at the top of the sidebar. The main content area shows the 'Overview' tab selected, displaying a 'Resource usage' section with a storage usage graph. The graph shows 'Storage (12M / 200M)' with a 'current value' of 6%. The x-axis is labeled 'Time' and ranges from 14:38 to 15:38. The y-axis is labeled 'Storage usage (%)' and ranges from 0 to 100.

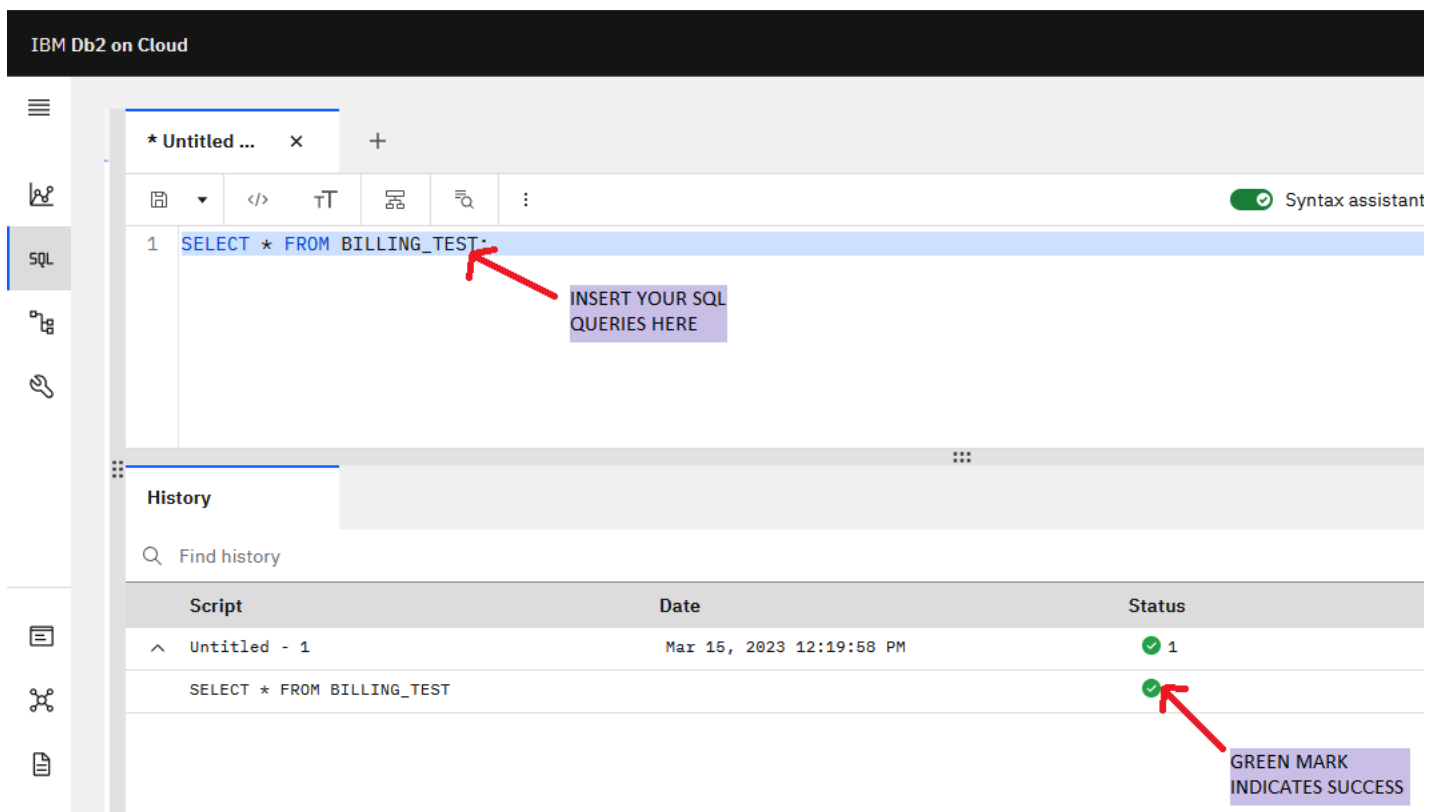
5. On the next screen click on the + button and then click on **Create new**.



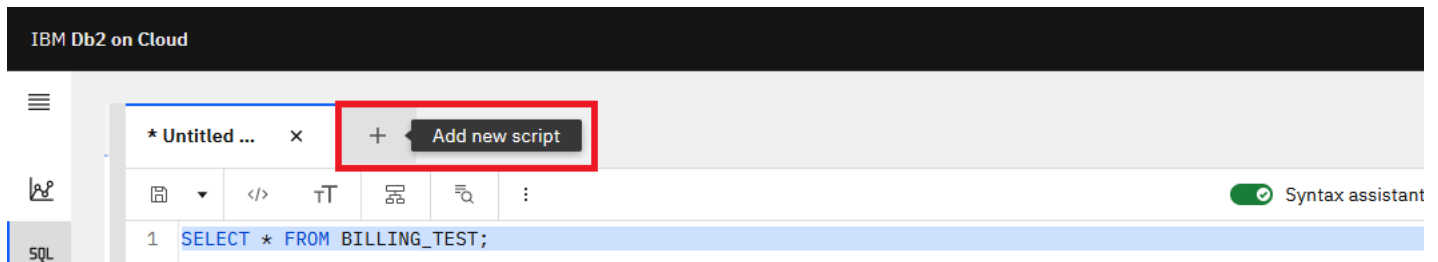
6. The SQL editor will open where you can start typing and running queries.



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.

The screenshot shows the 'History' tab in the IBM Db2 on Cloud interface. It displays a table of executed queries. The third query, 'SELECT \* FROM BILLING\_TEST', is highlighted with a red box. The table has columns: Script, Date, Status, and Runtime.

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.

The screenshot shows the 'Results' tab in the IBM Db2 on Cloud interface. It displays the result set for the query 'SELECT \* FROM BILLING\_TEST'. The 'Results' tab is highlighted with a red box. The table has columns: CUSTOMERID, CATEGORY, COUNTRY, INDUSTRY, MONTH, and BILLED.

CUSTOMERID	CATEGORY	COUNTRY	INDUSTRY	MONTH	BILLED
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