



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.



IBM Cloud

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

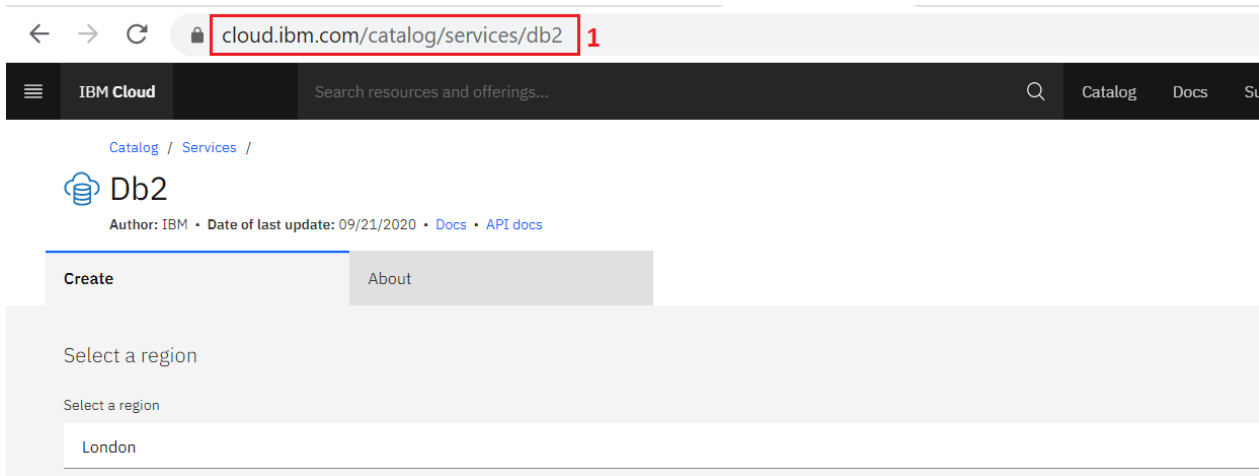
Now let us introduce you to Db2 on IBM Cloud. IBM Db2 is a next generation SQL database provisioned for you in the cloud. You can use Db2 on IBM Cloud just as you would use any database software (RDBMS), but without the overhead and expense of hardware setup or software installation and maintenance. 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.

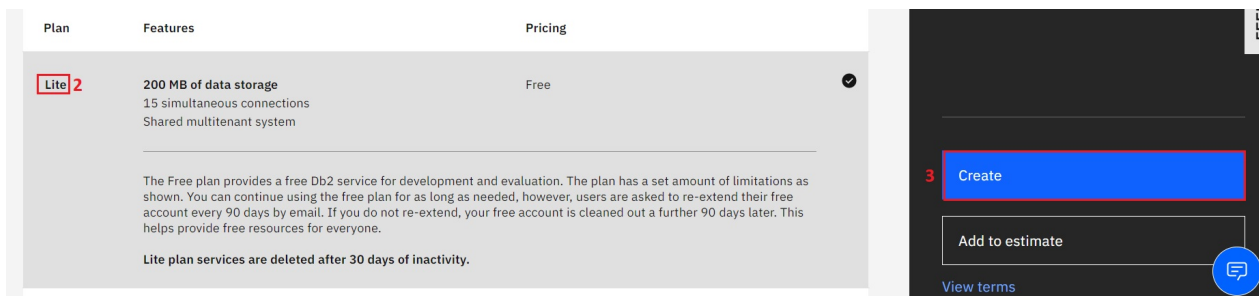
1. Login to [IBM Cloud](#)
2. Go to [the DB2 Services page on IBM Catalog](#).
3. Select a location where you want the service to be hosted.

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.

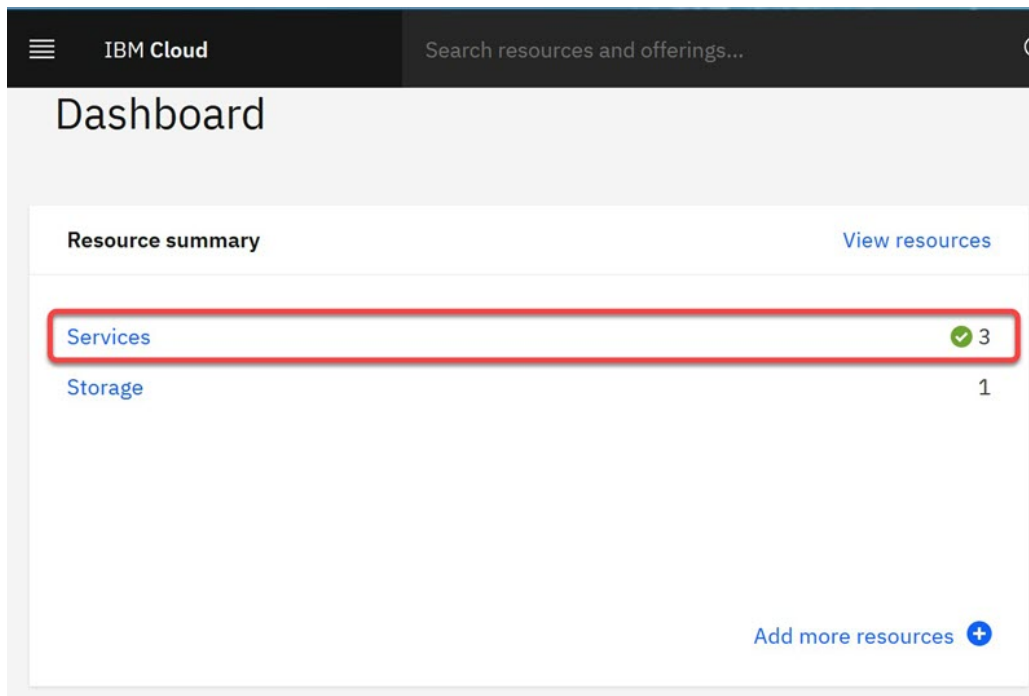


Task 2: Locate and Explore the Db2 console

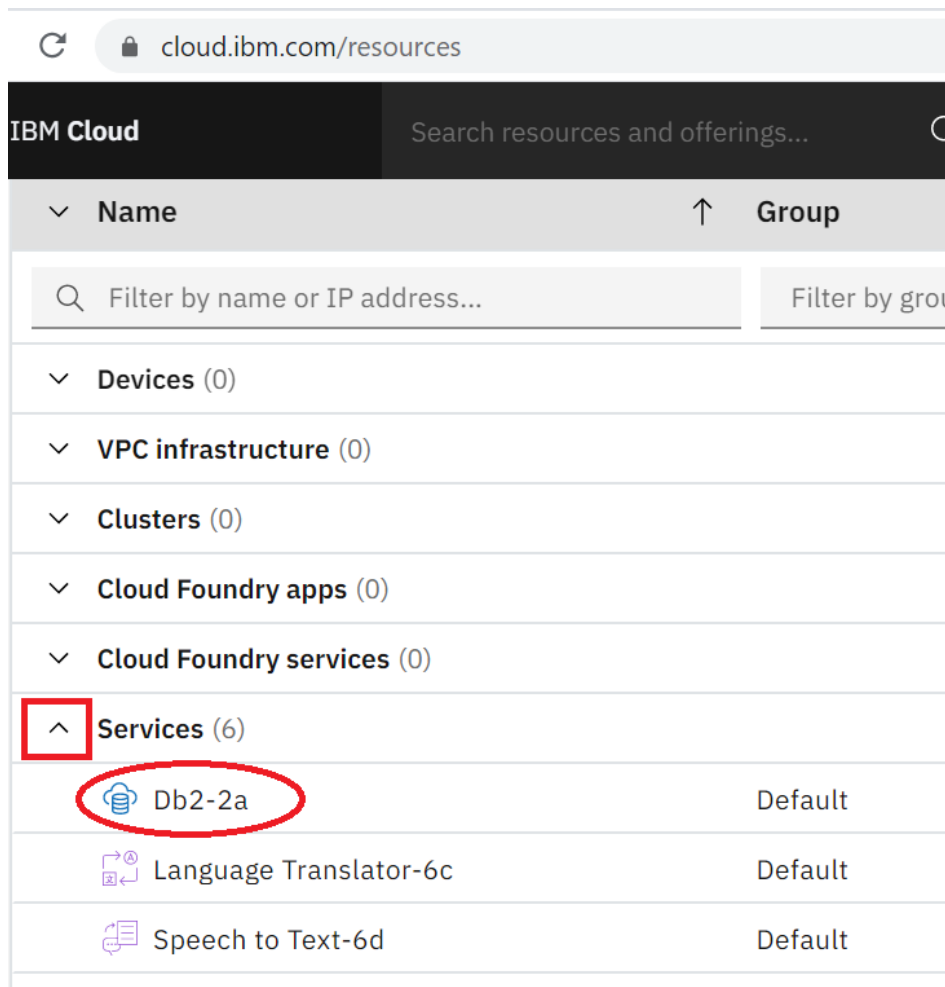
Now that you have created your database instance, you need to know how to get to it, explore the console and start working with it.

- **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 dashboard (you may need to login to IBM Cloud in the process) at: cloud.ibm.com and click **Services**.



2. In the Resource list, expand the **Services** 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](#) [Getting started docs](#)

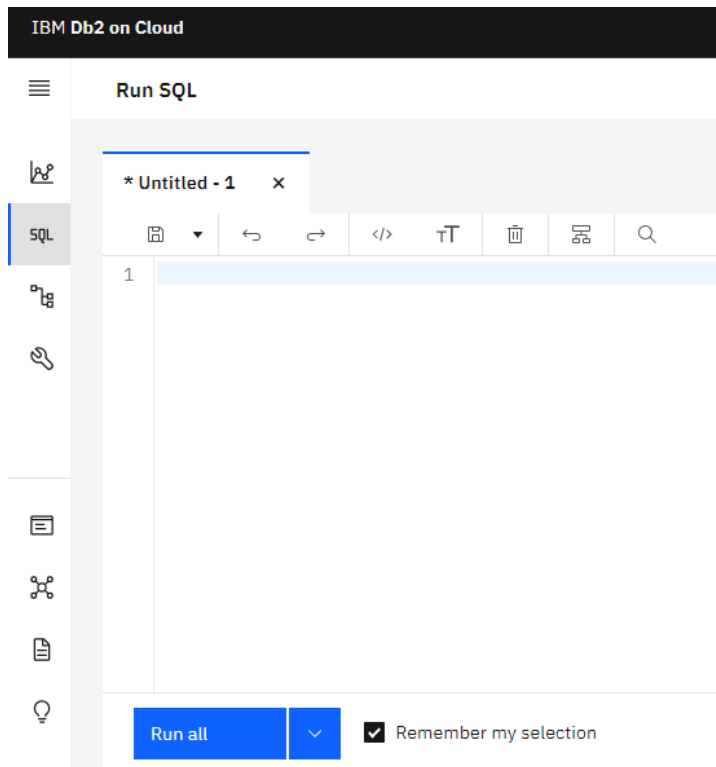
4. The Db2 console will open in a new tab in your web browser. Click on the 3-bar menu icon in the top left corner and then click on **RUN SQL**.

The screenshot shows the IBM Db2 console interface. On the left, there is a sidebar menu with a 3-bar icon at the top. The menu items are: Dashboard, SQL Run SQL (highlighted with a red box), Data, Administration, About, APIs, and Documentation. The main content area has tabs for Overview, In-flight executions, Connections, and Storage. The 'Overview' tab is active, showing a 'Resource usage' section with a graph of 'Storage usage (%)' over time. The graph shows a current value of 6% and a range from 14:38 to 15:38.

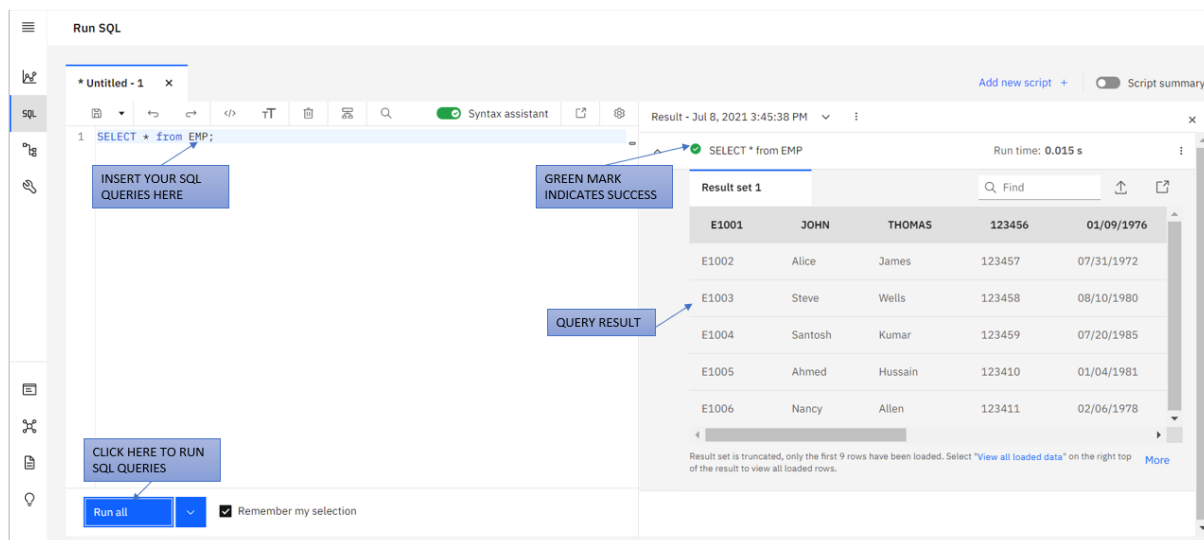
5. On the next screen click on **Create new**.

The screenshot shows the 'Run SQL' screen in the IBM Db2 console. The top bar says 'IBM Db2 on Cloud'. The left sidebar has a menu with 'Run SQL' highlighted. The main content area has two tabs: 'Choose script so...' and 'Open a script to e...'. Under 'Choose script so...', there are two buttons: 'From file' and 'Create new' (highlighted with a red box). Below these buttons is a section titled 'Templates' with the text 'Choose a template to start your SQL editor.'

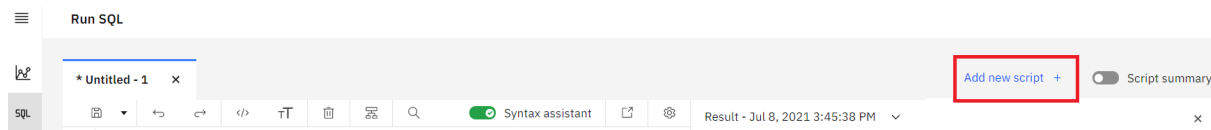
6. The SQL editor will open where you can start typing and running queries.



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



8. Click on the **Add New Script +** 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, looking at the Result section of the executed queries you will know whether the SQL statements ran successfully or not.

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RUN SQL

* Solution_Script.sql * Untitled - 1 x

Script Library Result History

1 SELECT F_NAME, L_NAME
2 FROM DEPARTMENTS;
3
4 SELECT F_NAME, L_NAME
5 FROM EMPLOYEES;

Result - Dec 11, 2020 4:...

> SELECT F_NAME, L_NAME FROM DEPARTM... Run time: 0.011 s

> SELECT F_NAME, L_NAME FROM EMPLOYEES Run time: 0.001 s

11. By clicking the Result section of the executed queries, you can see the query error details or result set to check and ensure the output is what you expected.

- NOTE: You may find that some results don't appear in the result set pane; in this case, click the highlighted **diagonal arrow** (View More) and it will open the full Result Set window containing the results.

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RUN SQL

* Solution_Script.sql * Untitled - 1 x

Script Library Result History

1 SELECT F_NAME, L_NAME
2 FROM DEPARTMENTS;
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4 SELECT F_NAME, L_NAME
5 FROM EMPLOYEES;

Result - Dec 11, 2020 4:...

SELECT F_NAME, L_NAME FROM DEPARTM... Run time: 0.011 s

Status: Failed

Error message
"F_NAME" is not valid in the context where it is used.. SQLCODE=-206, SQLSTATE=42703, DRIVER=4.26.14
[Learn more about this error](#)

SELECT F_NAME, L_NAME FROM EMPLOYEES Run time: 0.001 s

Result set 1 Search

F_NAME	L_NAME
John	Thomas
Alice	James
Steve	Wells
Santosh	Kumar
Ahmed	Hussain

5 /10 rows truncated to display. [Show More](#)

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)

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Changelog

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

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