

Cloud SQL for MySQL: Qwik Start

GSP151



Overview

In this lab you will learn how to create and connect to a Google Cloud SQL MySQL instance and perform basic SQL operations using the Cloud Console and the mysql client.

Setup and Requirements

Before you click the Start Lab button

Read these instructions. Labs are timed and you cannot pause them. The timer, which starts when you click **Start Lab**, shows how long Google Cloud resources will be made available to you.

This Qwiklabs hands-on lab lets you do the lab activities yourself in a real cloud environment, not in a simulation or demo environment. It does so by giving you new, temporary credentials that you use to sign in and access Google Cloud for the duration of the lab.

What you need

To complete this lab, you need:

- Access to a standard internet browser (Chrome browser recommended).
- Time to complete the lab.

Note: If you already have your own personal Google Cloud account or project, do not use it for this lab.


Note: If you are using a Pixelbook, open an Incognito window to run this lab.


How to start your lab and sign in to the Google Cloud Console


1. Click the **Start Lab** button. If you need to pay for the lab, a pop-up opens for you to select your payment method. On the left is a panel populated with the temporary credentials that you must use for this lab.

[Open Google Console](#)

Caution: When you are in the console, do not deviate from the lab instructions. Doing so may cause your account to be blocked. [Learn more.](#)


Username
google2727032_student@qwiklabs.n 

Password
k68CZxsxMZ 

GCP Project ID
qwiklabs-gcp-4fbfecac8667e457 

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- Copy the username, and then click **Open Google Console**. The lab spins up resources, and then opens another tab that shows the **Sign in** page.



Sign in
Use your Google Account


[Forgot email?](#)


Tip: Open the tabs in separate windows, side-by-side.

If you see the **Choose an account** page, click **Use Another**


Choose an account

 Your.Email@gmail.com

 google1381214_student@qwiklabs.net
Signed out

 **Use another account**

Account.

3. In the **Sign in** page, paste the username that you copied from the Connection Details panel. Then copy and paste the password.

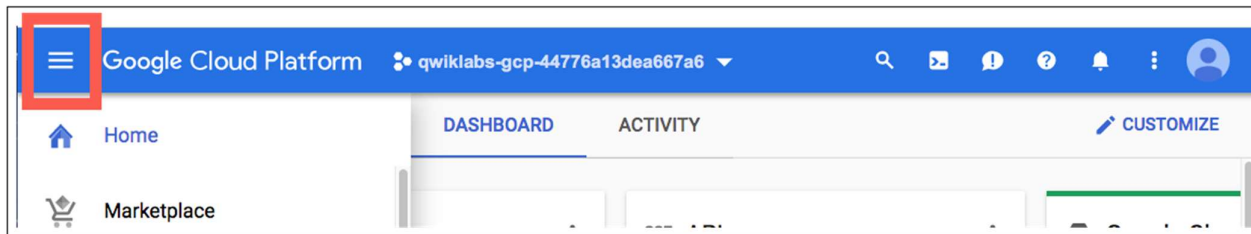
Important: You must use the credentials from the Connection Details panel. Do not use your Qwiklabs credentials. If you have your own Google Cloud account, do not use it for this lab (avoids incurring charges).

4. Click through the subsequent pages:

- Accept the terms and conditions.
- Do not add recovery options or two-factor authentication (because this is a temporary account).
- Do not sign up for free trials.

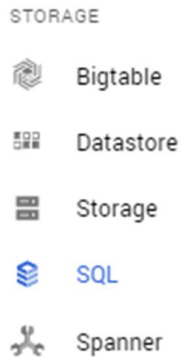
After a few moments, the Cloud Console opens in this tab.

Note: You can view the menu with a list of Google Cloud Products and Services by clicking the **Navigation menu** at the top-left.



Create a Cloud SQL instance

From the **Navigation menu** (≡) click on **SQL**.



Click **Create Instance**.

Create your instance with the following settings:

- Click **choose MySQL**
- Type "myinstance" for **Instance ID**
- In the password field click on the **Generate** link and the eye icon to see the password. **Save** the password, you'll need it in the next section.

A screenshot of the Google Cloud Platform 'Create a MySQL instance' form. The header shows 'Google Cloud Platform' and a project ID 'qwiklabs-gcp-02-7a19815eaf87'. The breadcrumb is 'Create a MySQL instance'. The form is divided into sections: 'Instance info' with fields for 'Instance ID *' (filled with 'myinstance') and 'Password *' (filled with dots, with a 'GENERATE' link and an eye icon), a 'No password' checkbox, and 'Database version *' (set to 'MySQL 5.7'). The 'Choose region and zonal availability' section includes a 'Region' dropdown (set to 'us-central1 (Iowa)'), radio buttons for 'Single zone' (selected) and 'Multiple zones (Highly available)', and a link 'SPECIFY ZONES'. The 'Customize your instance' section has a link 'SHOW CONFIGURATION OPTIONS' and two buttons: 'CREATE INSTANCE' and 'CANCEL'.

Use the default values for the other fields.

Click **Create Instance**.

After a few minutes the instance is created and you can continue to the next section. If it seems to be taking a long time, refresh your browser.

Test Completed Task

Click **Check my progress** to verify your performed task. If you have successfully created Cloud SQL instance, you will see an assessment score.

Test your Understanding

Below are multiple choice questions to reinforce your understanding of this lab's concepts. Answer them to the best of your abilities.

Instance ID is used to uniquely identify your instance within the project.
True

Connect to your instance using the mysql client in the Cloud Shell

In the Cloud Console, click the Cloud Shell icon in the upper right corner.



Then click **Continue**.

At the Cloud Shell prompt, connect to your Cloud SQL instance by running the following:

```
gcloud sql connect myinstance --user=root
```

Click **Authorize**.

Enter your root password when prompted. **Note:** The cursor will not move.

Press the **Enter** key when you're done typing.

You should now see the `mysql` prompt.

Create a database and upload data

Create a SQL database called `guestbook` on your Cloud SQL instance:

```
CREATE DATABASE guestbook;
```

Test Completed Task

Click **Check my progress** to verify your performed task. If you have successfully created custom database on Cloud SQL instance, you will see an assessment score.

Insert the following sample data into the `guestbook` database:

```
USE guestbook;
CREATE TABLE entries (guestName VARCHAR(255), content VARCHAR(255),
    entryID INT NOT NULL AUTO_INCREMENT, PRIMARY KEY(entryID));
INSERT INTO entries (guestName, content) values ("first guest", "I got here!");
INSERT INTO entries (guestName, content) values ("second guest", "Me too!");
```

Now retrieve the data:

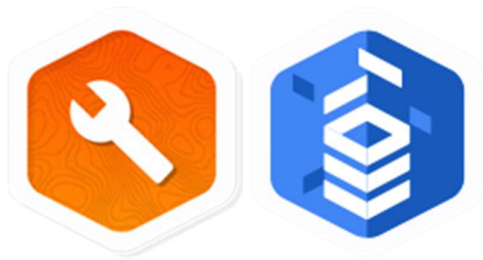
```
SELECT * FROM entries;
```

You should see:

```
+-----+-----+-----+
| guestName | content | entryID |
+-----+-----+-----+
| first guest | I got here! | 1 |
| second guest | Me too! | 2 |
+-----+-----+-----+
2 rows in set (0.00 sec)
mysql>
```


Congratulations!

You have created a Google Cloud SQL MySQL instance and connect to it.



Finish Your Quest

This self-paced lab is part of the Qwiklabs [Baseline: Deploy & Develop](#) and [Cloud SQL](#) Quests. A Quest is a series of related labs that form a learning path. Completing this Quest earns you the badge above, to recognize your achievement. You can make your badge (or badges) public and link to them in your online resume or social media account. Enroll in a quest and get immediate completion credit if you've taken this lab. [See other available Qwiklabs Quests](#).

Next Steps / Learn More

This lab is also part of a series of labs called Qwik Starts. These labs are designed to give you a little taste of the many features available with Google Cloud. Search for "Qwik Starts" in the [lab catalog](#) to find the next lab you'd like to take!

Google Cloud Training & Certification

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