# How to install MySQL on

## macOS

Step by step instructions to install MySQL on macOS using Homebrew

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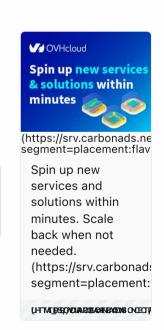
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On macOS, you can install MySQL easily using <a href="Homebrew">Homebrew</a> (https://flaviocopes.com/homebrew/) .

Run:

brew install mysql

The above command should take a while, then print something like this:



```
⇒ Pouring mysql-8.0.18_1.mojave.bottle.1.tar.gz
⇒ /usr/local/Cellar/mysql/8.0.18 1/bin/mysqld --initialize-i
⇒ Caveats
We've installed your MySQL database without a root password. To secure it run:
   mysql_secure_installation
MySQL is configured to only allow connections from localhost by default
To connect run:
  mysql -uroot
To have launchd start mysql now and restart at login:
 brew services start mysql
Or, if you don't want/need a background service you can just run:
 mysql.server start
 ⇒ Summary
🥦 /usr/local/Cellar/mysql/8.0.18_1: 287 files, 278.2MB
⇒ Caveats
⇒ protobuf@3.7
protobuf@3.7 is keg-only, which means it was not symlinked into /usr/local,
because this is an alternate version of another formula.
If you need to have protobuf@3.7 first in your PATH run:
 echo 'set -g fish_user_paths "/usr/local/opt/protobuf@3.7/bin" $fish_user_paths' >>
~/.config/fish/config.fish
For compilers to find protobuf@3.7 you may need to set:
 set -gx LDFLAGS "-L/usr/local/opt/protobuf@3.7/lib"
 set -gx CPPFLAGS "-I/usr/local/opt/protobuf@3.7/include"
⇒ mysql
We've installed your MySQL database without a root password. To secure it run:
   mysgl secure installation
MySQL is configured to only allow connections from localhost by default
To connect run:
  mysql -uroot
To have launchd start mysql now and restart at login:
 brew services start mysql
Or, if you don't want/need a background service you can just run:
 mysql.server start
Cellar
```

You can now start the MySQL server by running:

#### brew services start mysql

Now we need to secure the MySQL server. By default the server comes without a root password, so we need to make sure it's protected.

Run:

#### mysql\_secure\_installation

The procedure can take a while, but it gives a lot of power to make sure you get the best defaults out of the box:

```
Cellar — fish /usr/local/Cellar — -fish — 96×57
Press y|Y for Yes, any other key for No: y
There are three levels of password validation policy:
LOW
      Length ≥ 8
MEDIUM Length \geqslant 8, numeric, mixed case, and special characters
                                                                                              file
STRONG Length ≥ 8, numeric, mixed case, special characters and dictionary
Please enter 0 = LOW, 1 = MEDIUM and 2 = STRONG: 0
Please set the password for root here.
New password:
Re-enter new password:
Estimated strength of the password: 50
Do you wish to continue with the password provided?(Press y|Y for Yes, any other key for No) : y
By default, a MySQL installation has an anonymous user,
allowing anyone to log into MySQL without having to have
a user account created for them. This is intended only for
testing, and to make the installation go a bit smoother.
You should remove them before moving into a production
environment.
Remove anonymous users? (Press y|Y for Yes, any other key for No) : y
Success.
Normally, root should only be allowed to connect from
'localhost'. This ensures that someone cannot guess at
the root password from the network.
Disallow root login remotely? (Press y|Y for Yes, any other key for No) : y
Success.
By default, MySQL comes with a database named 'test' that
anyone can access. This is also intended only for testing,
and should be removed before moving into a production
environment.
Remove test database and access to it? (Press y|Y for Yes, any other key for No) : y
- Dropping test database...
Success.
- Removing privileges on test database...
Success.
Reloading the privilege tables will ensure that all changes
made so far will take effect immediately.
Reload privilege tables now? (Press y|Y for Yes, any other key for No) : y
Success.
All done!
→ Cellar
```

Since we used brew services start mysql to start MySQL, your Mac will re-start it at reboot. You can run:

#### brew services stop mysql

to stop this from happening, and also to immediately stop MySQL.

You can also avoid this **daemon mode** (that's what we call programs that always run in the background and restart when the computer is restarted) by running:

### mysql.server start

This will start MySQL and will keep it running until the computer is shut down, or until you run:

#### mysql.server stop

and it will not re-start it at reboot.

It's up to you to decide which one you prefer.

Now you can connect to the server using the command:

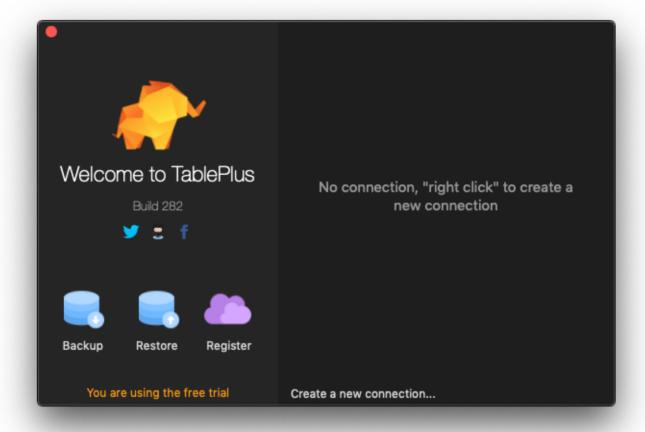
#### mysql -u root -p

You will need to type the **root** user password *after* you run this command, and once you are done you should see this screen:

A great GUI (graphical) software we can use to interact with a SQLite database is TablePlus.

It comes with a free trial that's perfect for our usage, because it's not time-based but rather it limits the amount of concurrent connections you can make to the database.

Download it from <a href="https://tableplus.com">https://tableplus.com</a> (https://tableplus.com). I know there are macOS, Windows and Linux versions.



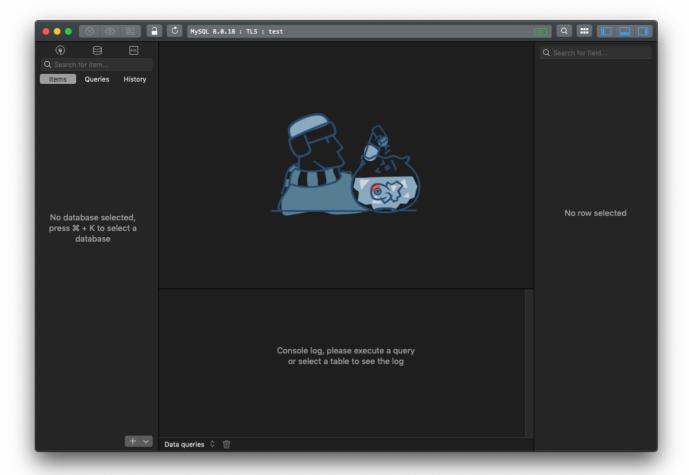
Click "Create a new connection..." and select MySQL in the list:



then set a name for the connection, and enter "root" and the password you set previously:



Click Connect, and you should be connected to MySQL!



Note that we are connected using the root user, which should only be used for administration purposes.

Day to day use of a database should be done using a normal user. We'll see it in a separate tutorial.

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