Installation of MySQL Workbench and server

There are alternatives to MySQL Workbench, but they are usually either paid or sometimes crash. MySQL Workbench is open source, stable and free.

- Go to https://dev.mysql.com/downloads/installer/
- Select your operating system ("Microsoft Windows" by default).

| General Availability (GA) Releases Archives | 1) | | |
|--|--|---|-------------------------|
| MySQL Installer 8.0.34 | | | |
| Note: MySQL 8.0 is the final series with MySQL Ins installation. MySQL Server 8.1 and higher also bun | taller. As of MySQL 8.1, use a MyS dle MySQL Configurator, a tool tha | QL product's MSI or Zip a at helps configure MySQL | rchive for . Server. |
| elect Version: | | | |
| 8.0.34 | ~ | | |
| elect Operating System: | | | |
| Microsoft Windows | ~ | | |
| Windows (x86, 32-bit), MSI Installer | 8.0.34 | 2.4M | Download |
| (mysql-installer-web-community-8.0.34.0.msi) | MD | 5:01baf7b42e551d53efb557 | eed401ff91 Signature |
| Windows (x86, 32-bit), MSI Installer | 8.0.34 | 331.3M | Download |
| (mysql-installer-community-8.0.34.0.msi) | MD | 5:59eaa511c39011a2f02643 | 11a80b0228 Signature |
| • We suggest that you use the MD5 checksums and | GnuPG signatures to verify the int | egrity of the packages yo | u download. |
| | | | |

- Download the MySQL Web installer
- On the next page, click on "No thanks, just start my download" at the bottom.



• The download should be very fast. Once it is done, double-click on the file to run it.



mysql-installer-web-community-8.0.34.0

- A window will probably appear, telling you that changes are about to be made to your computer. Accept it.
- Also accept the License Agreement. Next.
- Choose the Custom installation. Next.

| MySQL Installer | _ | - 🗆 X |
|--------------------------------------|---|---|
| MySQL. Installer Adding Community | Choosing a Setup Type Please select the Setup Type that suits you | ur use case. |
| Choosing a Setup Type | O Developer Default | Setup Type Description |
| Select Products | Installs all products needed for MySQL development purposes. | Allows you to select exactly which products you would like to install. This also allows to pick other server versions and architectures (depending on |
| Download | O Server only | your OS). |
| Installation | Installs only the MySQL Server product. | |
| Installation Complete | Client only Installs only the MySQL Client products, without a server. Full Installs all included MySQL products and features. Custom Manually select the products that should be installed on the system. | |
| | | Next > Cancel |

- In the list, select:
 - MySQL Servers > MySQL Server > MySQL Server 8.0
 - Applications > MySQL Workbench > MySQL Workbench 8.0
 - Documentation > Samples and Examples > Samples and Examples 8.0

| MySQL Installer | X |
|--|--|
| MySQL. Installer | Select Products |
| Adding Community | Please select the products you would like to install on this computer. |
| | Filter: |
| Choosing a Setup Type | All Software, Current GA, Any |
| Select Products | Available Products: Products To Be Installed: |
| Download Installation Product Configuration Installation Complete | Samples and Examples 8.0 |
| | Published: Tuesday, 18 July 2023 Release Notes: |

- In the next screen, press "Execute" to download everything.
- In the next screen, press "Execute" to execute everything.

Perhaps the following clip will also appear:



You must also accept and implement this...

| NySQL Installer | | - 🗆 X |
|--|--|--------------------------|
| MySQL. Installer Adding Community | Installation The following products will be installed. | |
| Choosing a Setup Type | Product Arch Sta MySQL Server 8.0.34 X64 Con | atus Progress Notes |
| Select Products Installation | MySQL Workbench 8.0.34 X64 Inst. Samples and Examples 8.0.34 X86 Ready | alling 72% to Install |
| Product Configuration Installation Complete | | |
| | Show Details > | |
| | < <u>B</u> ack | Execute Cancel |

- After all products have been installed, click on "Next".
- On the page with "Product Configuration", click on "Next".

| MySQL Installer | | - 🗆 X |
|--------------------------------------|---|--|
| MySQL. Installer Adding Community | Product Configuration We'll now walk through a configuration wi | izard for each of the following products. |
| Choosing a Setup Type | You can cancel at any point if you wish to products. | leave this wizard without configuring all the |
| Select Products | Product MySQL Server 8.0.34 Samples and Examples 8.0.34 | Status Ready to configure Ready to configure |
| Product Configuration | | |
| Installation Complete | | |
| | | |
| | | Next > Cancel |

• MySQL Server 8.0.34 Installer will open automatically. If not, open the installer manually. The following screen will appear.



- You have selected a Development Computer. Next.
- Keep the strong password encryption. Next.
- Choose your MySQL Root Password. Normally we would say that you should choose a strong, complex password, but you are only going to secure a test database with it. So choose a simple password, like "1234". In the same screen, add a user with your own name, who you will give the same password.

| MySQL Installer | | | | _ | | × |
|-------------------------|---|-----------------|-----------------------------|---------------------|---|----------|
| MySQL. Installer | Accounts and Ro | oles | | | | |
| MySQL Server 8.0.34 | Root Account Password Enter the password for the place. | root account. | Please remember to store | e this password in | a secure | |
| Type and Networking | MySQL Root Password: | •••• | | | | |
| Authentication Method | Repeat Password: | •••• | | | | |
| | | Password | trength: Weak | | | |
| Server File Permissions | MySQL User Accounts Create MySQL user accou | unts for your u | sers and applications. Assi | ign a role to the u | iser that | |
| Apply configuration | consists of a set of privile | gen | | | | |
| Appy configuration | consists of a set of privile MySQL User Name | e Host | User Role | | <u>A</u> dd Use | er |
| Appy control of | consists of a set of privile MySQL User Name | e Host | User Role | | <u>A</u> dd Use <u>E</u> dit Use | er er |
| | consists of a set of privile MySQL User Name | e Host | User Role | | <u>A</u> dd Use <u>E</u> dit Use <u>D</u> elete | er er |
| | consists of a set of privile MySQL User Name | e Host | User Role | | <u>A</u> dd Use <u>E</u> dit Use <u>D</u> elete | er |
| Appy considered | consists of a set of privile MySQL User Name | : Host | User Role | | <u>A</u> dd Use <u>E</u> dit Use <u>D</u> elete | er er |
| Appy consider | consists of a set of privile MySQL User Name | e Host | User Role | | Add Use | er |

| /SQL User Account | | . ^ |
|-------------------------|-----------------------------|-----------|
| ase specify the user na | me, password, and databa | ise role. |
| User Name | Tinne | 0 |
| Server Host | <all (%)="" hosts=""></all> | \sim |
| Role | DB Admin | \sim |
| Authentication | O MySQL | |
| MySQL user credentials | | |
| Password: | •••• | |
| Confirm Password: | •••• | |
| | Password strength: Weak | |

| NySQL Installer | | | | – 🗆 X |
|-------------------------|--|-----------------------------|------------------------------|---------------------|
| MySQL. Installer | Accounts and Rol | es | | |
| MySQL Server 8.0.34 | Root Account Password Enter the password for the re place. | oot account. Pleas | e remember to store this pa | issword in a secure |
| Type and Networking | MySQL Root Password: | •••• | | |
| Authentication Method | Repeat Password: | •••• | | |
| Accounts and Roles | | Password strengt | th: Weak | |
| Windows Service | | | | |
| Sonier Eile Dermissions | | | | |
| Server File Permissions | MySQL User Accounts | | | |
| Apply Configuration | Create MySQL user accoun consists of a set of privileg | ts for your users ar es. | nd applications. Assign a ro | le to the user that |
| | MySQL User Name | Host | User Role | <u>A</u> dd User |
| | 📕 Tinne | % | DB Admin | <u>E</u> dit User |
| | | | | Delete |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | < <u>B</u> ack <u>N</u> e | xt > <u>C</u> ancel |

- Click Next.
- The following screen indicates that you make MySQL a Windows Service. That means that it always starts up together with Windows. Normally, this does not slow down your computer noticeably, but you can always choose to turn it off later. Click on "Next".



• On the "Server File Permissions" leave the default option (grant full access) selected and click Next.



• Click on "Execute" in the overview. If all goes well you will get the following screen.

| NySQL Installer | | _ | | × |
|---|---|---|-------|---|
| MySQL. Installer MySQL Server 8.0.34 | Apply Configuration The configuration operation has completed. [Configuration Steps] Log | | | |
| Type and Networking Authentication Method Accounts and Roles Windows Service Server File Permissions Apply Configuration | Writing configuration file Updating Windows Firewall rules Adjusting Windows service Initializing database (may take a long time) Updating permissions for the data folder and related server files Starting the server Applying security settings Constitute was account. | | | |
| | Creating user accounts Vipdating the Start menu link The configuration for MySQL Server 8.0.34 was successful. Click Finish to continue. | | Einis | h |

• Click on "Finish". The "Product Configuration" overview will open again, here you will see that MySQL Server 8.0.34 has been configured. Next we're going to configure "Samples and Examples 8.0.34". Click on "Next".

| NySQL Installer | | – 🗆 | × |
|--------------------------------------|---|---|---|
| MySQL. Installer Adding Community | Product Configuration We'll now walk through a configuration wiz | ard for each of the following products. | |
| Choosing a Setup Type | You can cancel at any point if you wish to le products. | ave this wizard without configuring all the | |
| Select Products | Product MySQL Server 8.0.34 Samples and Examples 8.0.34 | Status Configuration complete. Ready to configure | |
| Product Configuration | | | |
| Installation Complete | | | |
| | | Next > Cancel | |

• Enter the root password (1234) at the bottom of the Password field. Click on "Check" to make sure it is correct.

| NySQL Installer | – 🗆 X | |
|--|--|--|
| MySQL. Installer Samples and Examples | Connect To Server Select the MySQL server instances from the list to receive sample schemas and data. | |
| Connect To Server Apply Configuration | Server Port Arch Type Status ✓ MySQL Server 8.0.34 3306 X64 Stand-alone Server Connection succeeded, ✓ MySQL Server 8.0.34 3306 X64 Stand-alone Server Connection succeeded, Provide the credentials that should be used (requires root privileges). Click "Check" to ensure they work. Credentials provided in Server configuration Password: •••• • Credentials provided in Server configuration Check ✓ • • | |
| | Next > Cancel | |

• Click Next and Execute. You should get the following screen.

| MySQL Installer | - | | × |
|--|--|---------------|---|
| MySQL. Installer Samples and Examples | Apply Configuration The configuration operation has completed. [Configuration Steps] Log | | |
| Connect To Server Apply Configuration | ✓ Checking if there are any features installed that need configuration. ✓ Running Scripts | | |
| | The configuration for Samples and Examples 8.0.34 was successful. Click Finish to continue. | | |
| | | <u>F</u> inis | h |

• Click Finish again. Then click Next again and a final Finish. Leave "Start MySQL Workbench after setup" checked.

| MySQL Installer | | - | | × |
|--|--|---|----------------|---|
| MySQL. Installer Adding Community | Installation Complete The installation procedure has been completed. | | | |
| Choosing a Setup Type Select Products Installation | Copy Log to Clipboard | | | |
| Product Configuration | | | | |
| | | | | |
| | | (| <u>F</u> inisł | ۱ |

Testing the installation

After installation, MySQL Workbench starts automatically. A link to your server is created immediately. Please note that this can take a minute or two. (If no servers are found, click on 'Scan Servers'.)



- Click on the link to "Local instance MySQL80".
- Enter your root password (1234) and save it in the vault.



• You normally get the following screen:

| MySQL Workbench | | | | | | | | _ | | × |
|---|-------------------|---------------|--------------|----------|--------------------|--|--|----------------|-----------------|-------------|
| Local instance MySQL80 × | | | | | | | | | | |
| <u>File Edit View Query Database</u> | e <u>S</u> erver | <u>T</u> ools | Scripting He | elp | | | | | | |
| | d o id | ₩ | | | | | | | 0 | |
| Navigator | | | | | SQLAdditions | | | | | |
| MANAGEMENT Server Status Client Connections Users and Privileges Status and System Variables Category Data Import/Restore INSTANCE Startup / Shutdown Server Logs PERFORMANCE Databaard | 1 | 🗲 á | F A O | 90 © © | Automat get hel | ا السه به ic context help is p for the current | • s disabled. Use the toolb caret position or to toge help. | ar to gle a |) manu utoma | ally tic |
| 🖑 Performance Reports | | | | | | | | | | |
| Administration Schemas | | | | | Context Help | Snippets | | | | |
| Information | Output | | | | | | | | | |
| No object selected | Action | Output | • Action | | | Marraga | | |) unting / E | atab |
| Object Info Session | | unte | Action | | | wessage | | | vuration / F | eich . |

- We'll adjust this basic screen a little:
 - Click on the buttons in the top right-hand corner to remove the "SQL Additions" window.
 - In the "Navigator" window, click on "Schemas" at the bottom left to see your data.
 - In the field "Query 1", enter the SQL statement "Select * from world.city;".
 - Press "Ctrl-Enter".

| MySQL Workbench | | | | | | | – 🗆 X |
|--|------------|-------------------------------------|-------------------|---------------|-------------------|---|-----------------------|
| A Local instance MySQL80 × | | | | | | | |
| <u>Fi</u> le <u>E</u> dit <u>V</u> iew <u>Q</u> uery <u>D</u> atabas | e <u>S</u> | erver <u>T</u> ools <u>S</u> cripti | ng <u>H</u> elp | | | | |
| 8 5 6 8 6 | 6 0 | ă 💖 | | | | | Ø – – |
| Navigator | Que | ny 1 🗙 | | | | | 1 |
| SCHEMAS 🚸 | | 🛛 🛛 🗲 🖌 👰 | 0 80 0 | 0 🛛 🕄 🗆 | imit to 1000 rows | - 🙀 🚿 🔍 👖 🖃 | |
| Q Filter objects | 1 | • Select * fr | om world.cit | tv; | | | |
| 🕨 🗐 sakila | | | | 21 | | | |
| sys | | | | | | | |
| Wond | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | _ | | | | _ | | |
| | Res | ult Grid 🔢 🚸 Filte | r Rows: | Edit | : 🖌 🖶 🖶 | Export/Import: 🙀 🌄 Wrap Cell Content: 🔢 | Fetch rows: |
| | | ID Name | CountryCode | District | Population | | Result |
| | | 1 Kabul 2 Oapdabar | AFG | Kabol | 1780000 | | Grid |
| | | 2 Qanuanar 3 Herat | AFG | Herat | 186800 | | |
| N N N N N N N N N N N N N N N N N N N | | 4 Mazar-e-Sharif | AFG | Balkh | 127800 | | |
| Administration Scheman | | 5 Amsterdam | NLD | Noord-Holland | 731200 | | |
| Administration Schemas | citv | 1 × | | | | | Apply Revert |
| Information | Outp | ut | | | | | |
| | đ | Action Output | - | | | | |
| No object selected | | # Time Action | | | | Message | Duration / Fetch |
| | 0 | 1 10:52:14 Select * | from world.city L | IMIT 0, 1000 | | 1000 row(s) returned | 0.000 sec / 0.000 sec |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| Object Info Session | | | | | | | |

- You now get the results of your query. The name "World.City" refers to the schema "World" and within it the table "City".
- Right-click on "World" in the Navigator window and select "Set as Default Schema".



- You will notice that "World" is now bold.
- Change the SQL query to "Select * from city;" and press "Ctrl-Enter". The output should be the same as for the previous query.

Database creation

In this lesson, we will work with databases other than those supplied as standard with MySQL. You load the data as follows.

- Open MySQL Workbench and connect to your database.
- Open the script you find on Canvas.
- Make sure the script continues if there are any errors.

 \circ $\;$ That is the button with the two red crosses at the top.

| MySQL Workbench | | - 🗆 X | | | | | | | |
|-----------------------------|---|------------------|--|--|--|--|--|--|--|
| A Local instance MySQL80 × | | | | | | | | | |
| File Edit View Query Databa | ase Server Tools Scripting Help | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| Navigator () | | | | | | | | | |
| C Eilter abjacte | | | | | | | | | |
| < Priter objects | 1 DROP TABLE IF EXISTS coasters.rollercoasterElement; | | | | | | | | |
| sakila | 2 DROP TABLE IF EXISTS coasters.rollercoaster; | | | | | | | | |
| v 🗐 world | 3 DROP TABLE IF EXISTS coasters.element; | | | | | | | | |
| Tables | 4 • DROP TABLE IF EXISTS coasters.manufacturer; | | | | | | | | |
| Views | 5 • DROP TABLE IF EXISTS coasters.themePark; | | | | | | | | |
| Functions | 6 • DROP TABLE IF EXISTS coasters.parentCompany; | | | | | | | | |
| | 7 • DROP TABLE IF EXISTS coasters.country; | | | | | | | | |
| | 8 • DROP TABLE IF EXISTS coasters.status; | | | | | | | | |
| | 9 • DROP TABLE IF EXISTS coasters.material; | | | | | | | | |
| | 10 | | | | | | | | |
| | 11 • DROP SCHEMA IF EXISTS coasters; | | | | | | | | |
| Administration Schemas | 12 • CREATE SCHEMA coasters; | | | | | | | | |
| 7-6 | 13 • USE coasters: | | | | | | | | |
| Information | Output | | | | | | | | |
| No object coloring | - Action Output | | | | | | | | |
| No object selected | # Time Action Message | Duration / Fetch | | | | | | | |
| | 588 08:37:22 INSERT INTO coasters rollercoasterelement VALUES(158, 1, null) 1 row(s) affected | 0.000 sec | | | | | | | |
| | 589 08:37:22 INSERT INTO coasters rollercoaster VALUES(159, 'Hummel Brummel', '20 1 row(s) affected | 0.000 sec | | | | | | | |
| | 590 08:37.22 INSERT INTO coasters rollercoaster VALUES(160, 'Raupen Express', '200 1 row(s) affected | 0.000 sec | | | | | | | |
| | 591 08:37:22 INSERT INTO coasters rollercoasterelement VALUES(160, 8, null) 1 row(s) affected | 0.000 sec | | | | | | | |
| | 592 08:37:22 INSERT INTO coasters rollercoaster VALUES(161, Wilde Hilde', '2018-10 1 row(s) affected | 0.000 sec | | | | | | | |
| Object Info Session | 593 08:37:22 INSERT INTO coasters rollercoaster VALUES(162, 'Himalayabahn', '1989 1 row(s) affected | 0.000 sec | | | | | | | |

- Click on the lightning to execute the script
- Click on the Refresh button in the Navigator to see your new tables

In case of problems

- 1. Delete MySQL files completely, open the folder path C:\Users\your pc name\AppData\Roaming and delete the MySQL folder.
- 2. Then remove one more reference which is in C:\ProgramData\MySQL, if not visible check your folder view options and uncheck "Don't show hidden files".
- 3. The last reference of MySQL exists in our system services:

Type "Services" in the search box of the taskbar. Find services related to MySQL and note them down. I have two in my case(MySQLRouter and MYSQL80).

Open the command prompt with administrator-permissions and type:

sc delete "ServiceName",

In my case:

sc delete MySQL80

sc delete MySQLRouter

Ensure all services related to MySQL are removed by using the above command. Restart your computer and install your MySQL instance with a new configuration.