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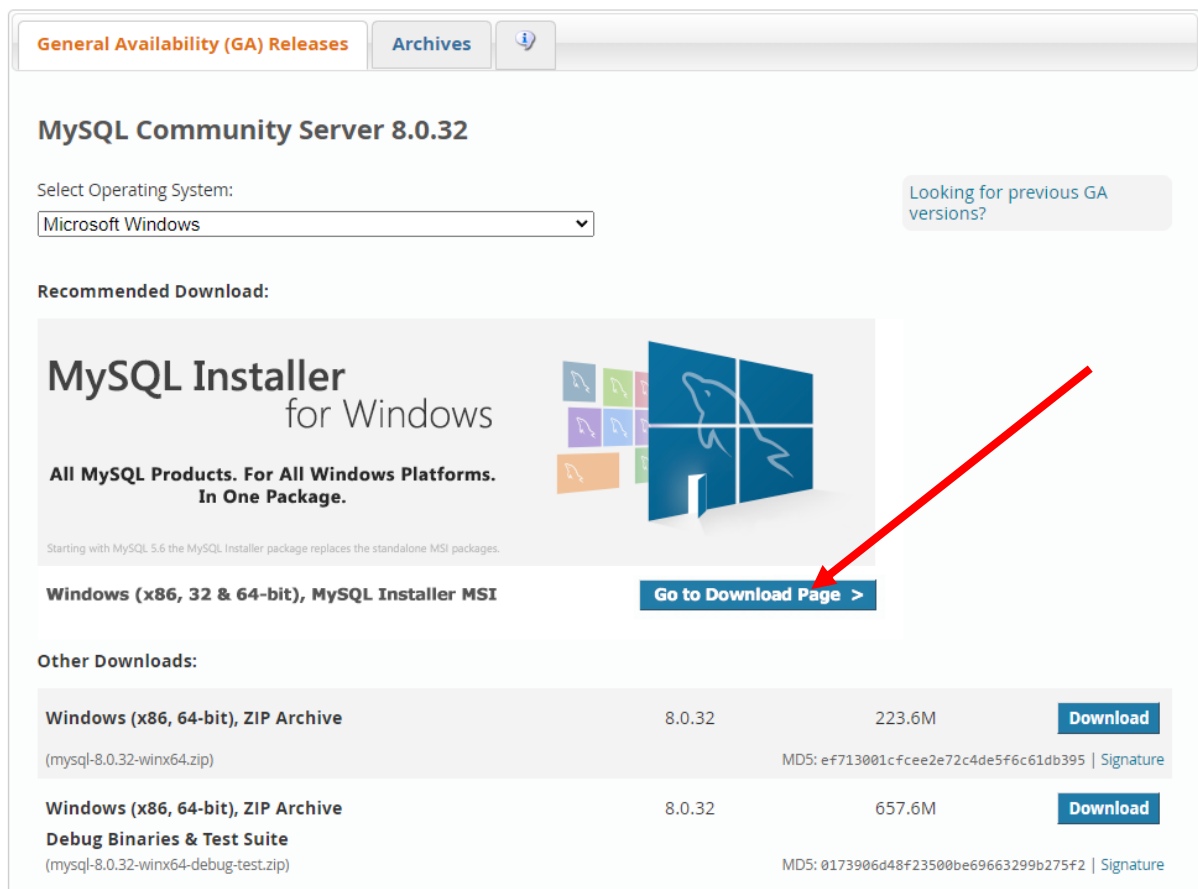
*Practical 4: MySQL software installation and Database Setup*

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## Activity1: Install MySQL Community Server

1. Go to <https://dev.mysql.com/downloads/mysql/>.

NOTE: The version number in the screenshots may differ from your current installation, but the steps are the same.



**MySQL Community Server 8.0.32**

Select Operating System:  
Microsoft Windows

Looking for previous GA versions?

**Recommended Download:**

**MySQL Installer for Windows**

All MySQL Products. For All Windows Platforms. In One Package.

Starting with MySQL 5.6 the MySQL Installer package replaces the standalone MSI packages.

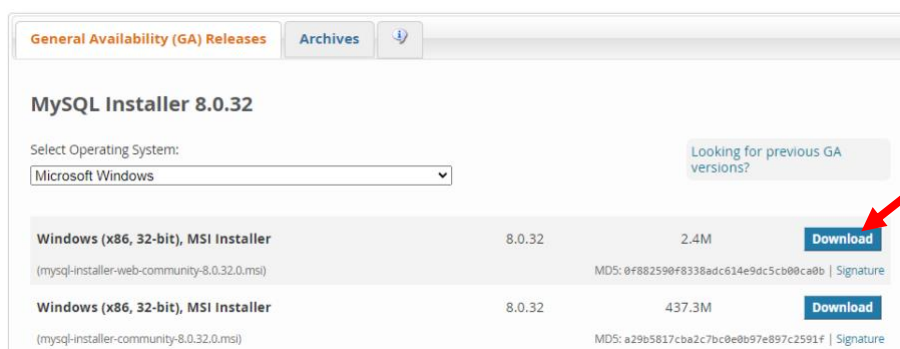
**Windows (x86, 32 & 64-bit), MySQL Installer MSI**

[Go to Download Page >](#)

**Other Downloads:**

Download	Version	Size	Action
<b>Windows (x86, 64-bit), ZIP Archive</b> (mysql-8.0.32-winx64.zip)	8.0.32	223.6M	<a href="#">Download</a>
MD5: ef713001cfcee2e72c4de5f6c61db395   <a href="#">Signature</a>			
<b>Windows (x86, 64-bit), ZIP Archive</b> <b>Debug Binaries &amp; Test Suite</b> (mysql-8.0.32-winx64-debug-test.zip)	8.0.32	657.6M	<a href="#">Download</a>
MD5: 0173906d48f23500be69663299b275f2   <a href="#">Signature</a>			

2. Download the offline installer.



**MySQL Installer 8.0.32**

Select Operating System:  
Microsoft Windows

Looking for previous GA versions?

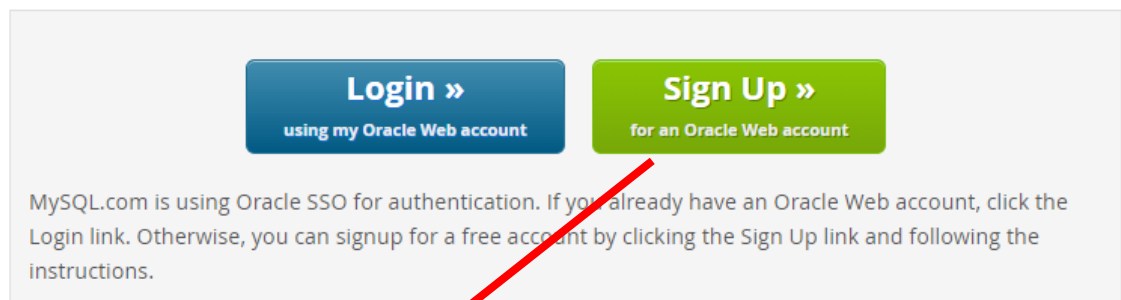
Download	Version	Size	Action
<b>Windows (x86, 32-bit), MSI Installer</b> (mysql-installer-web-community-8.0.32.0.msi)	8.0.32	2.4M	<a href="#">Download</a>
MD5: 0f882590f8338adc614e9dc5cb00ca0b   <a href="#">Signature</a>			
<b>Windows (x86, 32-bit), MSI Installer</b> (mysql-installer-community-8.0.32.0.msi)	8.0.32	437.3M	<a href="#">Download</a>
MD5: a29b5817c0a2c7bc0e0b97e897c2591f   <a href="#">Signature</a>			

3. You can skip the Oracle account login and start your download.

#### Login Now or Sign Up for a free account.

An Oracle Web Account provides you with the following advantages:

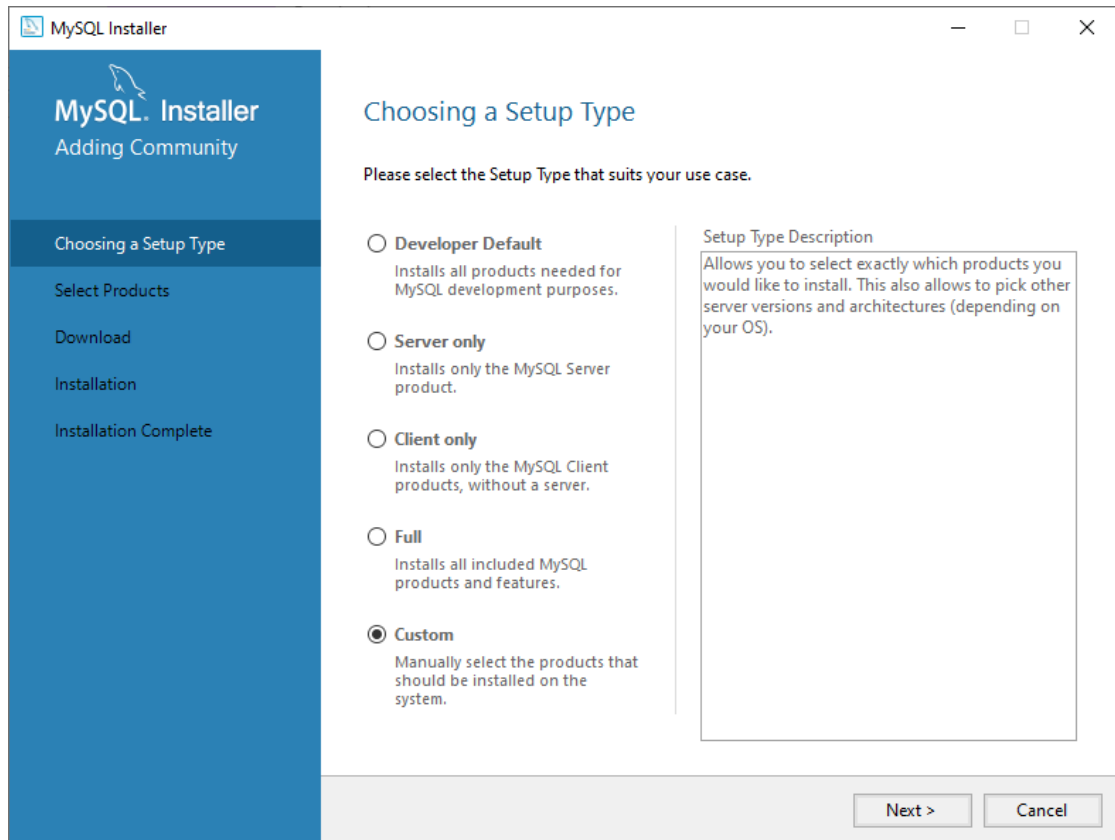
- Fast access to MySQL software downloads
- Download technical White Papers and Presentations
- Post messages in the MySQL Discussion Forums
- Report and track bugs in the MySQL bug system



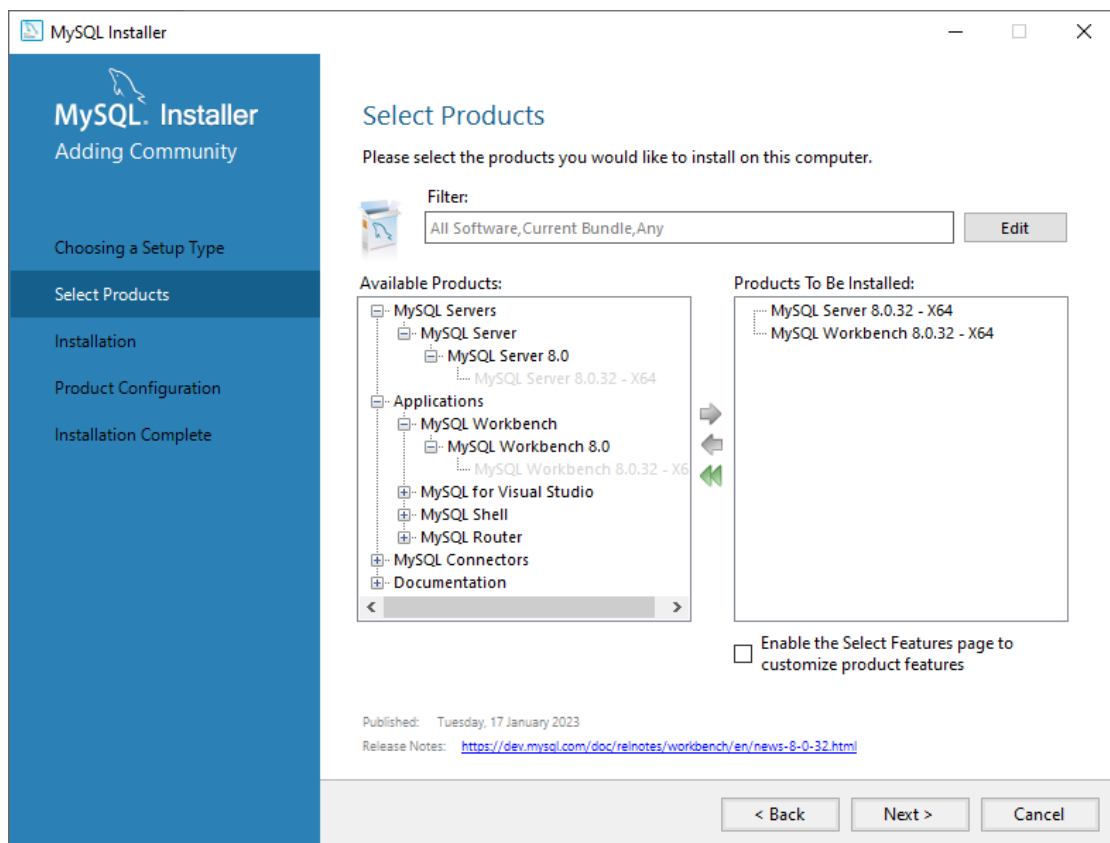
[No thanks, just start my download.](#)

The installer file mysql-installer-community-8.0.xx.x.msi will be downloaded.

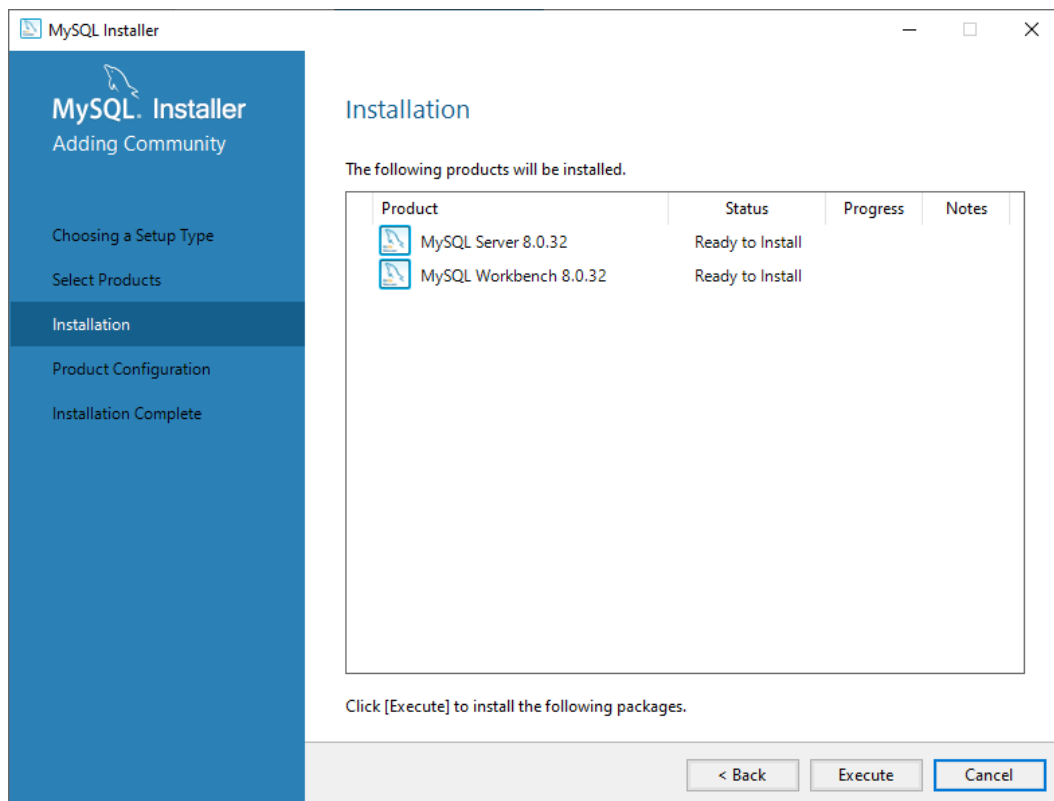
4. Run the installer. Choose **Custom** for the Setup Type.



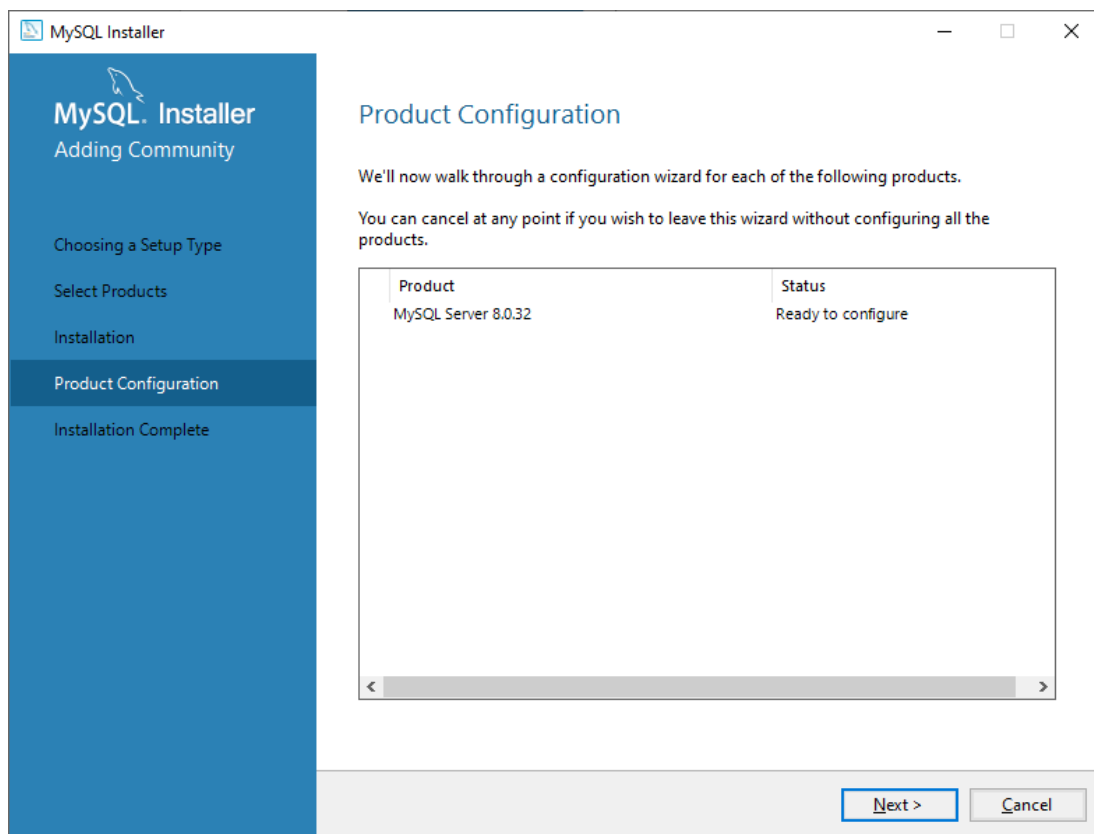
5. Select products **MySQL Server 8.0** and **MySQL Workbench 8.0**.



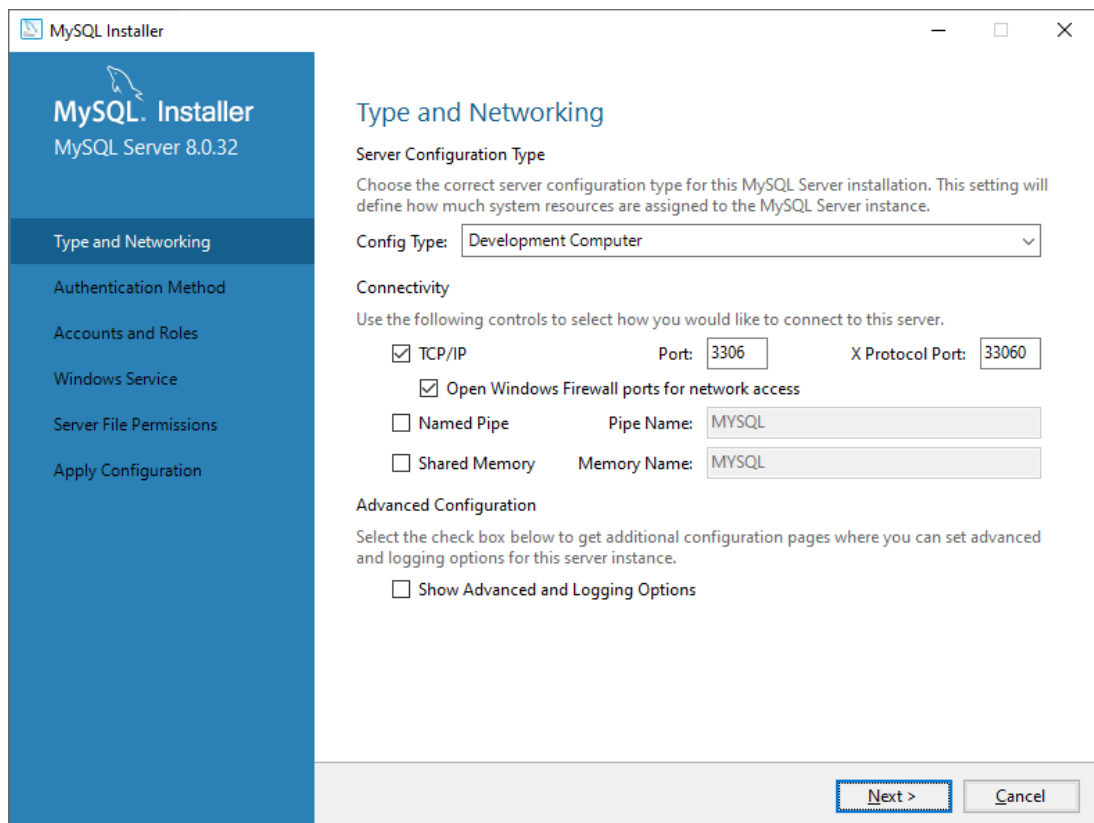
6. On the Installation box, click **Execute** to install your chosen products.



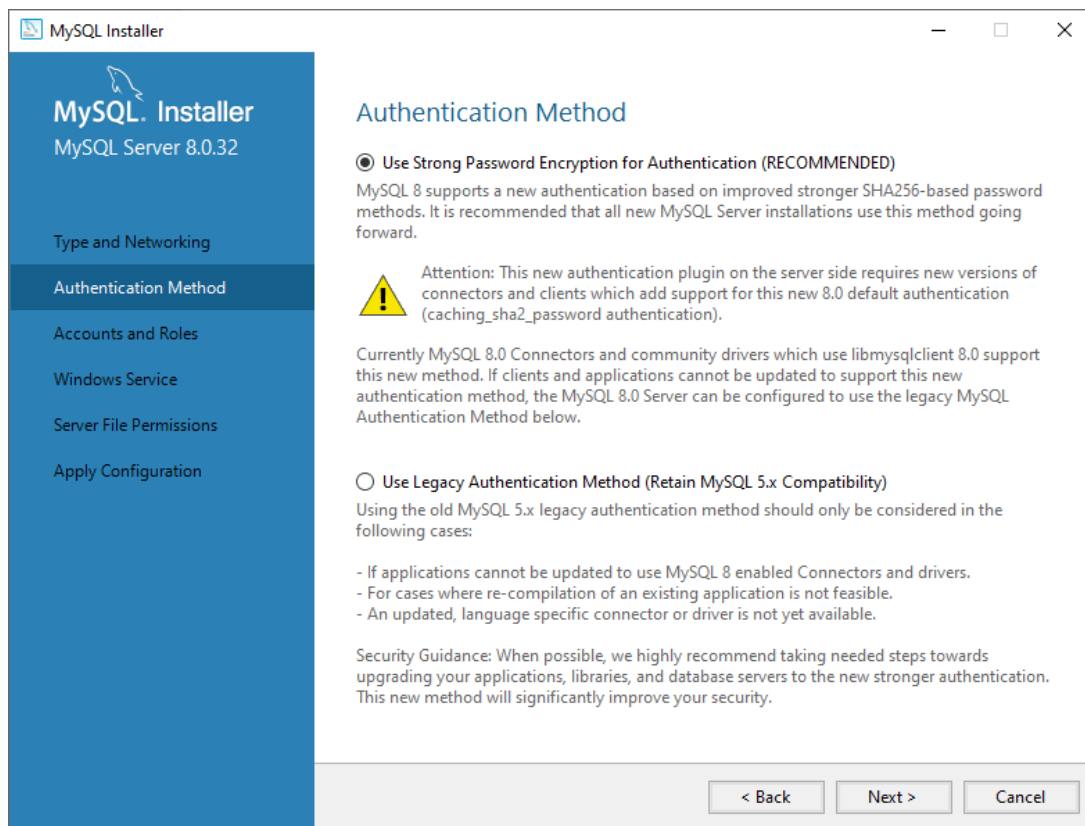
7. On the Product Configuration box, click **Next** to configure the server.



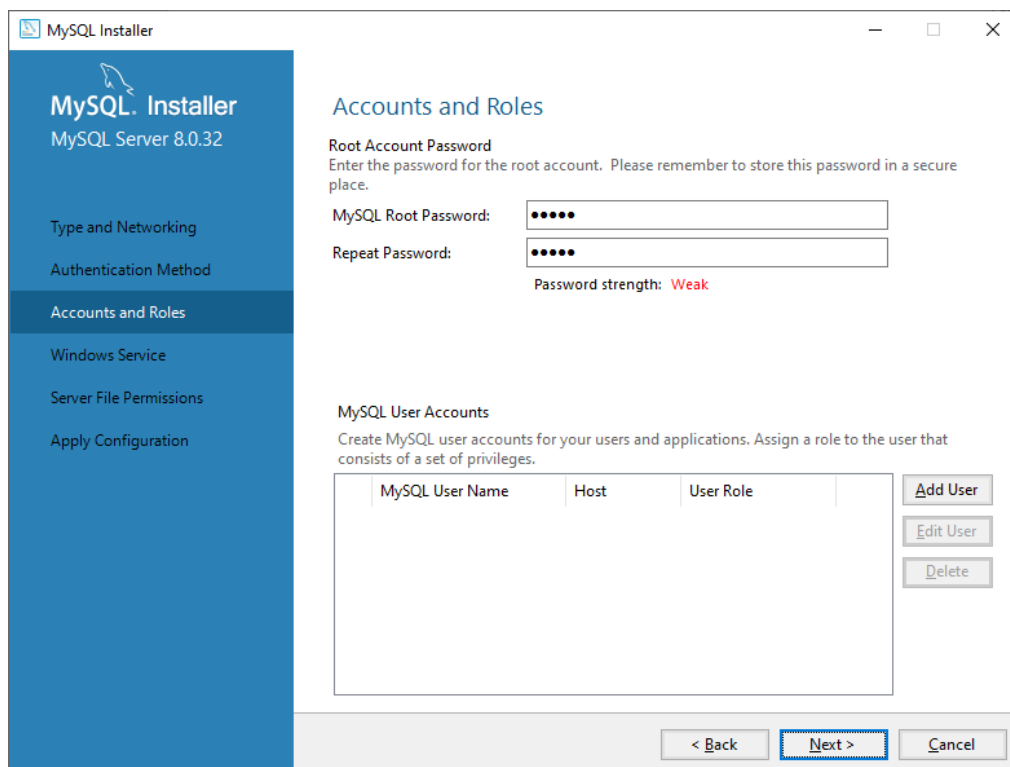
8. Use default values for Type and Networking.



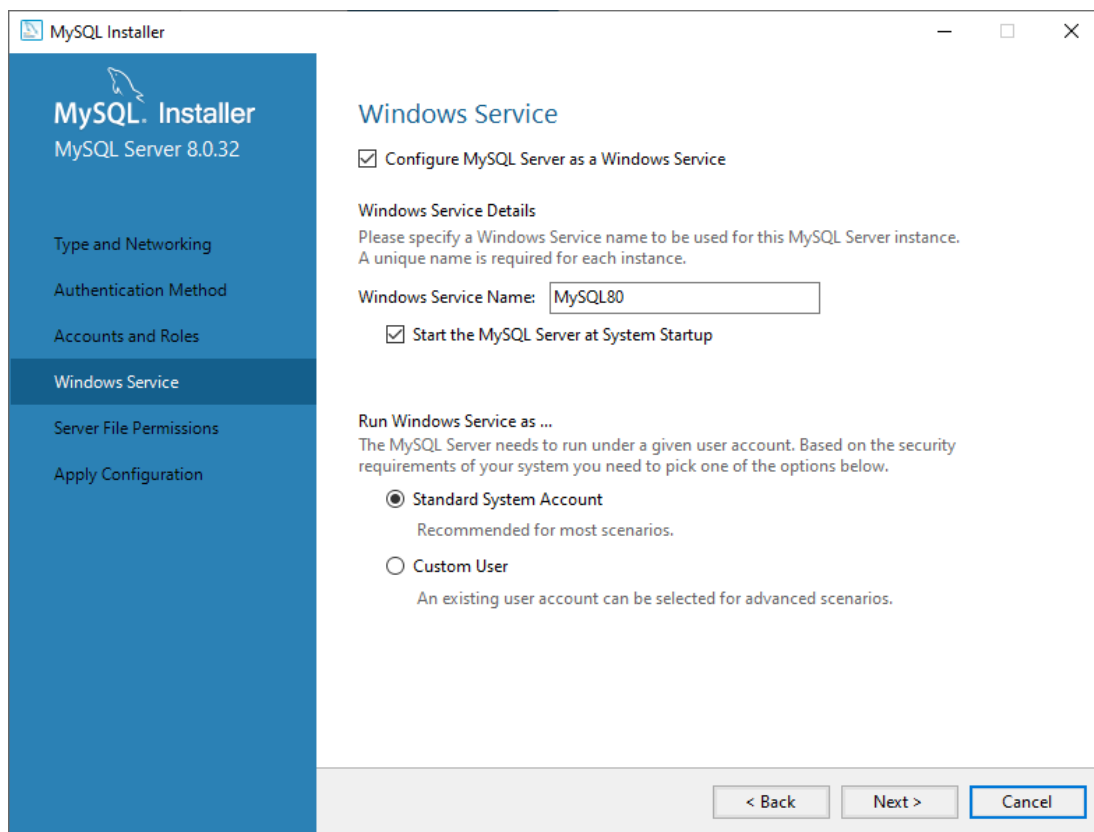
9. Use default values for Authentication Method.



10. For Accounts and Roles, set password for the root user. You can use “mysql” as the password. If you use your own password, make sure that you remember it.



11. Use default values for Windows Service.

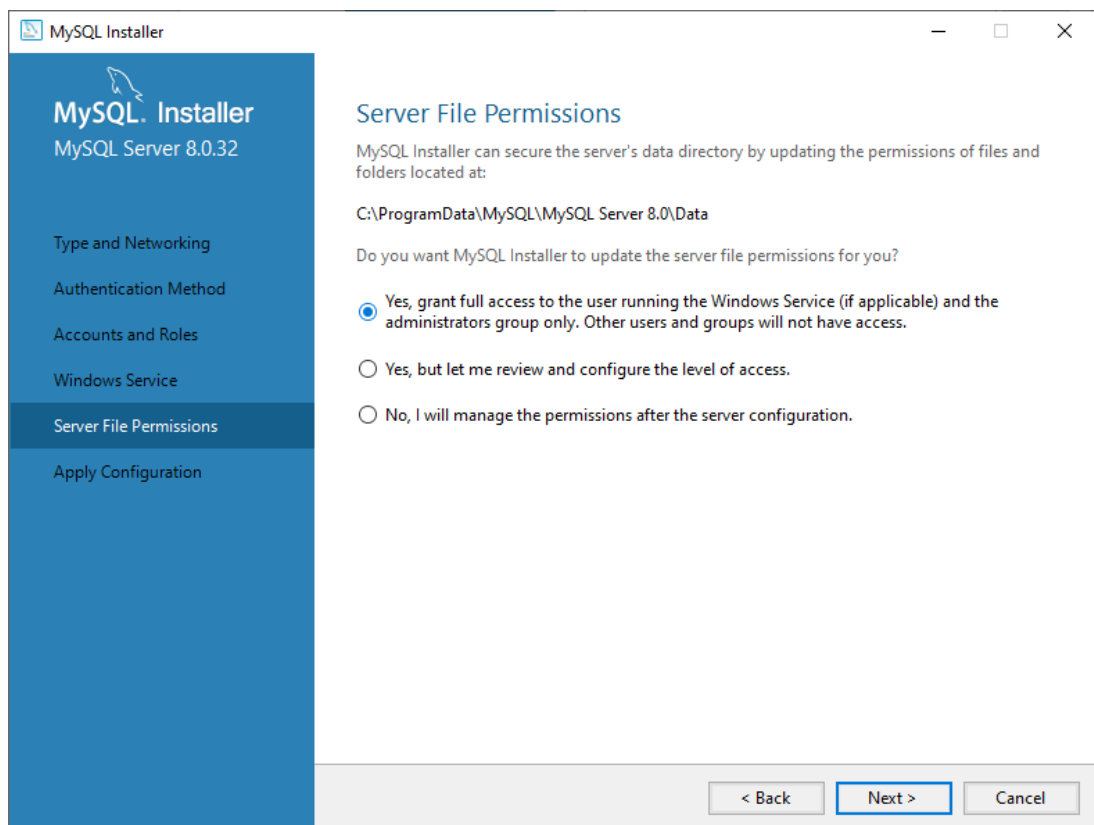


The screenshot shows the 'MySQL Installer' window for 'MySQL Server 8.0.32'. The left sidebar contains a list of steps: 'Type and Networking', 'Authentication Method', 'Accounts and Roles', 'Windows Service' (which is highlighted), 'Server File Permissions', and 'Apply Configuration'. The main area is titled 'Windows Service' and contains the following options:

- ☒ **Configure MySQL Server as a Windows Service**
- Windows Service Details**  
Please specify a Windows Service name to be used for this MySQL Server instance. A unique name is required for each instance.  
Windows Service Name:
- ☒ **Start the MySQL Server at System Startup**
- Run Windows Service as ...**  
The MySQL Server needs to run under a given user account. Based on the security requirements of your system you need to pick one of the options below.
  - ☒ **Standard System Account**  
Recommended for most scenarios.
  - ☐ **Custom User**  
An existing user account can be selected for advanced scenarios.

At the bottom right, there are three buttons: '< Back', 'Next >', and 'Cancel'.

12. Use default values for Server File Permissions.



The screenshot shows the 'MySQL Installer' window for 'MySQL Server 8.0.32'. The left sidebar contains a list of steps: 'Type and Networking', 'Authentication Method', 'Accounts and Roles', 'Windows Service', 'Server File Permissions' (which is highlighted), and 'Apply Configuration'. The main area is titled 'Server File Permissions' and contains the following information:

MySQL Installer can secure the server's data directory by updating the permissions of files and folders located at:

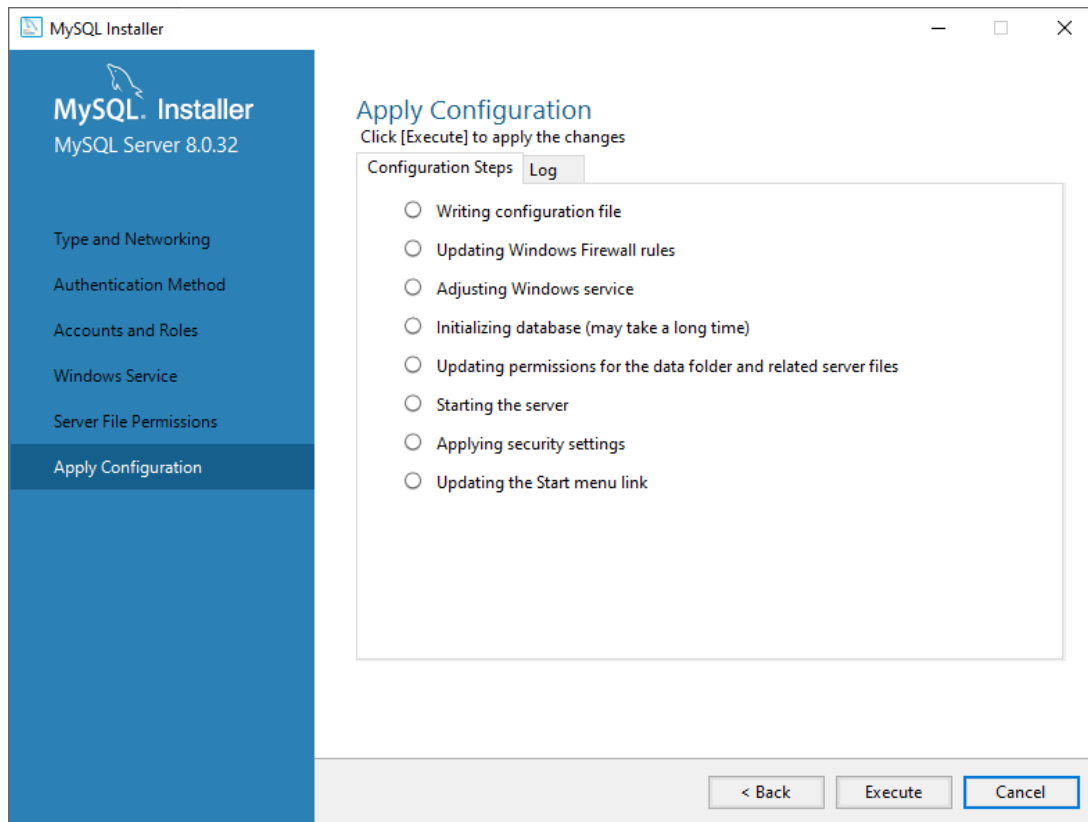
C:\ProgramData\MySQL\MySQL Server 8.0\Data

Do you want MySQL Installer to update the server file permissions for you?

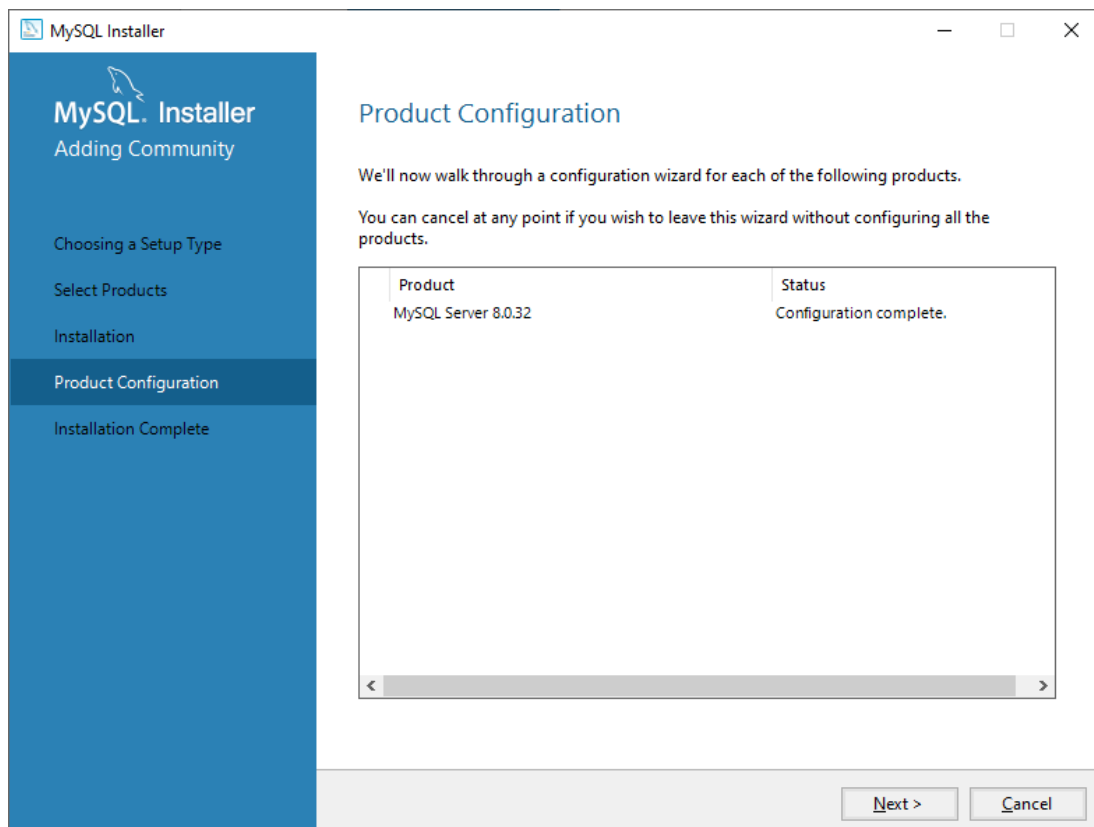
- ☒ **Yes, grant full access to the user running the Windows Service (if applicable) and the administrators group only. Other users and groups will not have access.**
- ☐ Yes, but let me review and configure the level of access.
- ☐ No, I will manage the permissions after the server configuration.

At the bottom right, there are three buttons: '< Back', 'Next >', and 'Cancel'.

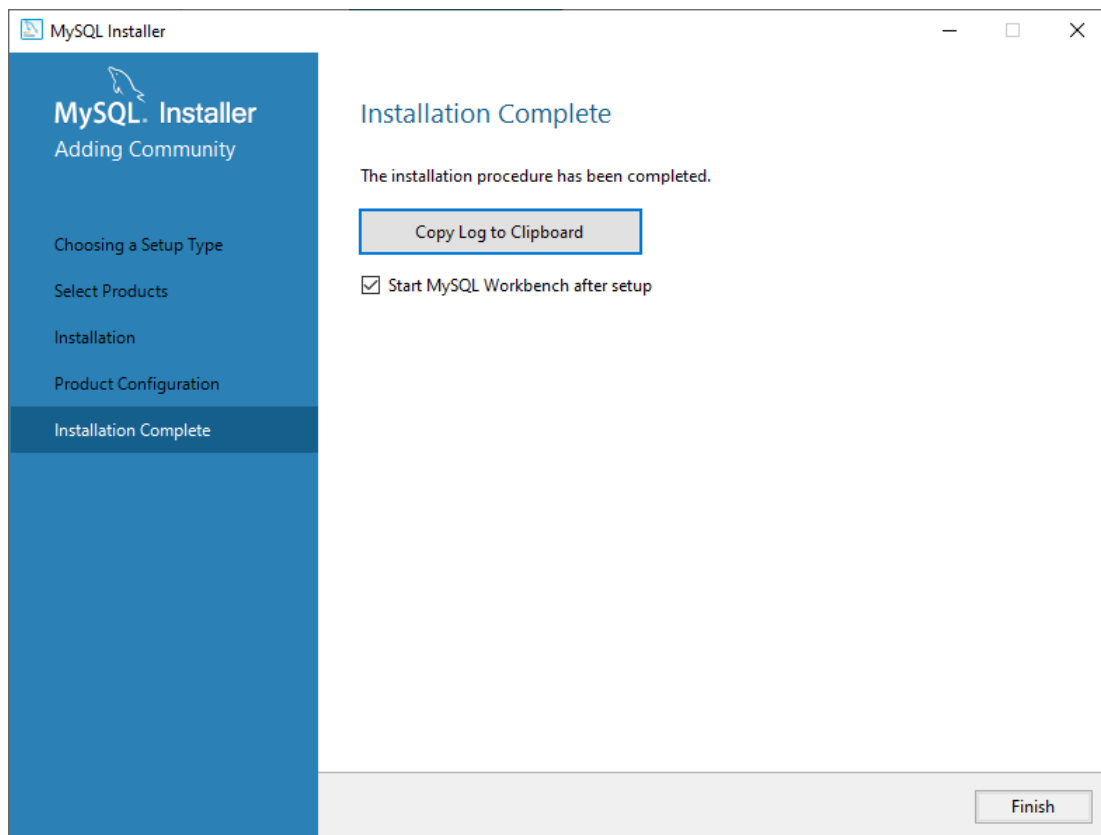
13. Click **Execute** to apply the server configuration.



14. Click **Next** to finish the product configuration.



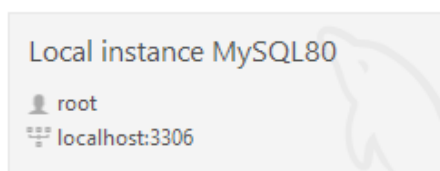
15. Click **Finish** to complete installation and start MySQL Workbench.



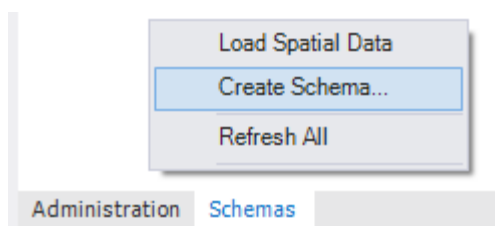
## Activity 2: Use MySQL Workbench to setup database

1. Open MySQL Workbench. Click the default connection using root user.

### MySQL Connections

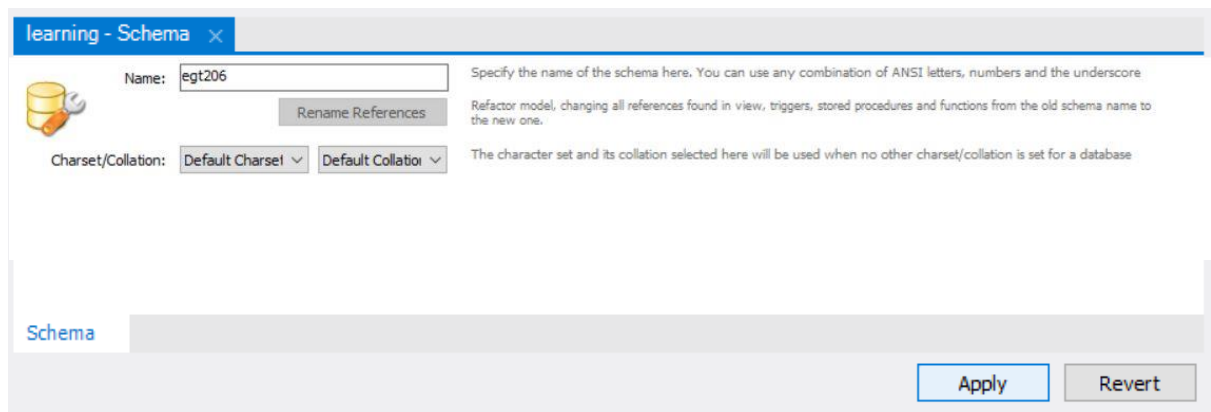


2. Under Navigator, select **Schemas**. Right click on empty space, select Create Schema. In MySQL, schema is synonymous with database.





3. Enter the name **egt206**, click the button Apply.



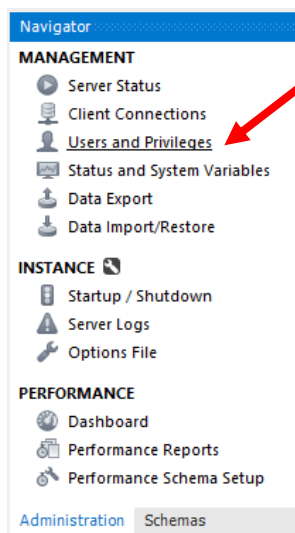
learning - Schema

Name:

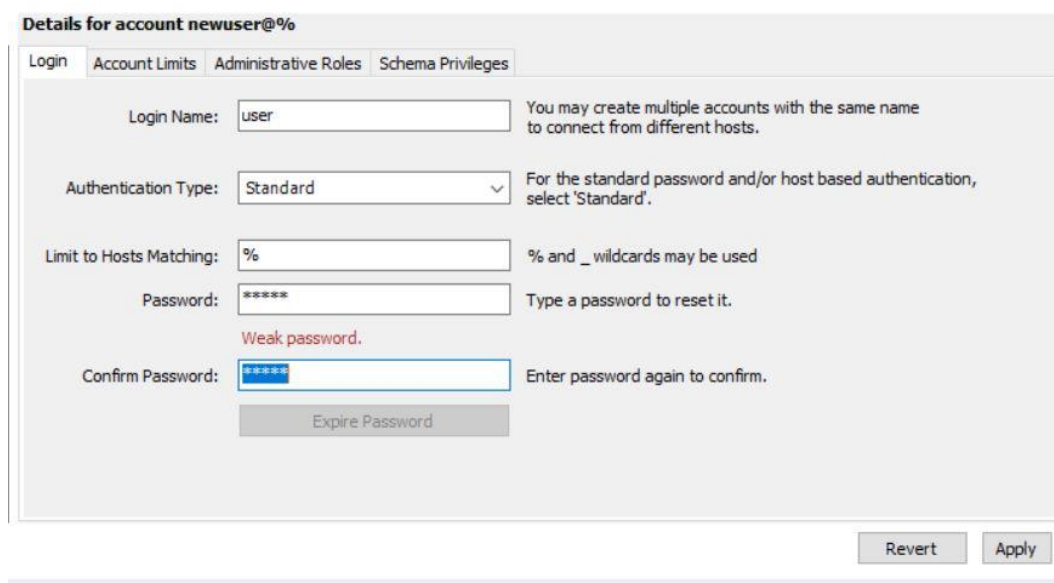
Charset/Collation:

Apply Revert

4. Under Navigator, select **Administration**. Select Users and Privileges, click button Add Account.



5. In account details, under Login, enter **user** for Login Name, **mysql** for Password and confirm password.



Details for account newuser@%

Login Account Limits Administrative Roles Schema Privileges

Login Name:

Authentication Type:

Limit to Hosts Matching:

Password:

Confirm Password:

Weak password.

Revert Apply

6. Under Schema Privileges, click the button Add Entry. Select schema matching pattern: **egt206%** and click OK.

Details for account newuser@%

Login Account Limits Administrative Roles Schema Privileges

Login Name:  You may create multiple accounts with the same name to connect from different hosts.

Authentication Type:  For the standard password and/or host based authentication, select 'Standard'.

New Schema Privilege Definition

Select the Schema for which the user 'newuser' will have the privileges you want to define.

Schema

☐ All Schema (%)

☒ Schemas matching pattern:

7. Click the button **Select "ALL"** to add all privileges for the selected schema. Click the button Apply.

Details for account user@%

Login Account Limits Administrative Roles Schema Privileges

Schema	Privileges
egt206%	ALTER, ALTER ROUTINE, CREATE, CREATE ROUTINE, CREATE TEMPORARY TABLES, CREATE VIEW, ...

Schema and Host fields may use % and \_ wildcards.  
The server will match specific entries before wildcarded ones.

Revoke All Privileges Delete Entry Add Entry...

Object Rights

- ☒ SELECT
- ☒ INSERT
- ☒ UPDATE
- ☒ DELETE
- ☒ EXECUTE
- ☒ SHOW VIEW

DDL Rights

- ☒ CREATE
- ☒ ALTER
- ☒ REFERENCES
- ☒ INDEX
- ☒ CREATE VIEW
- ☒ CREATE ROUTINE
- ☒ ALTER ROUTINE
- ☒ EVENT
- ☒ DROP
- ☒ TRIGGER

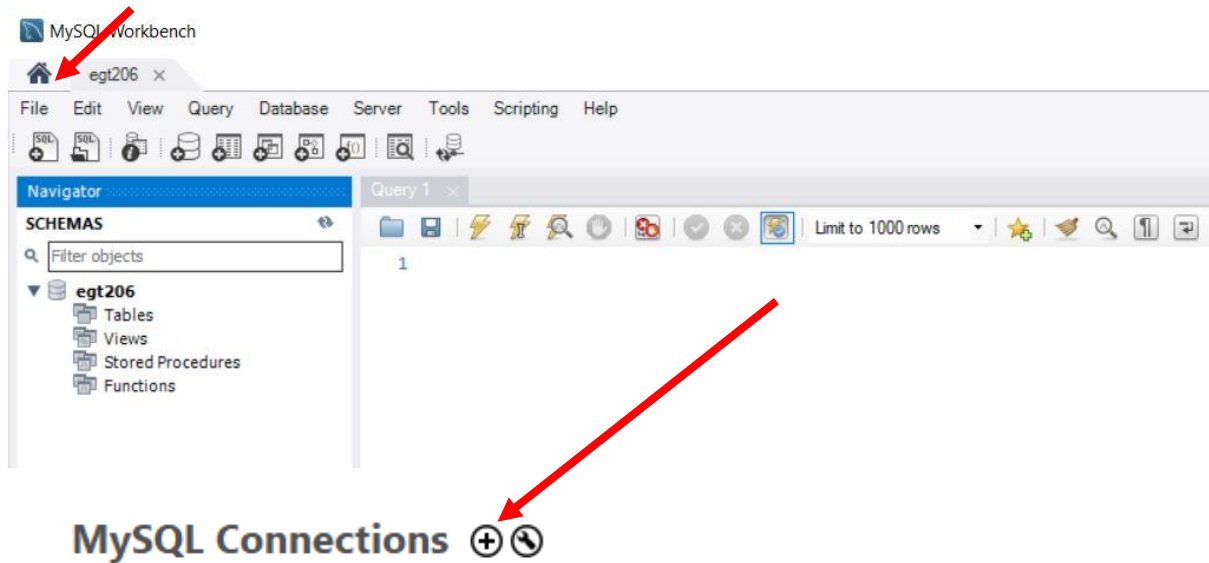
Other Rights

- ☐ GRANT OPTION
- ☒ CREATE TEMPORARY TABLES
- ☒ LOCK TABLES

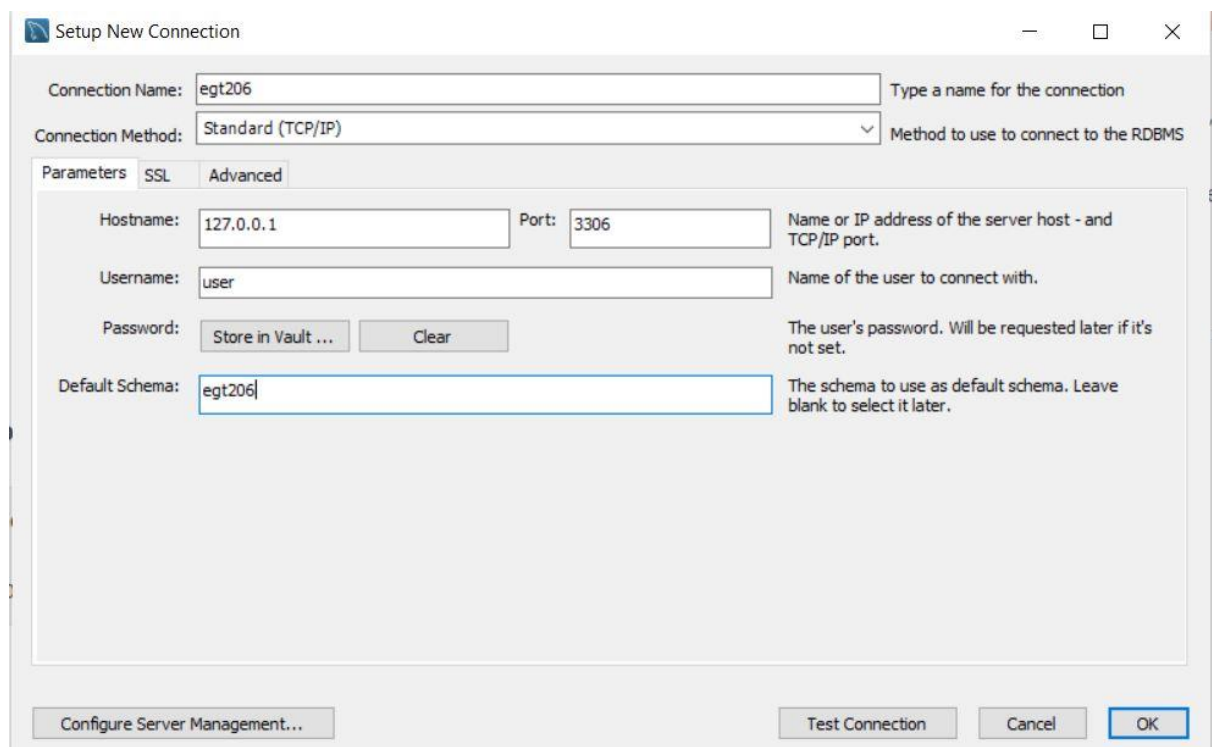
Unselect All **Select "ALL"**

Revert Apply

8. Close the current connection. In the home page, click the plus icon to add a new connection.



9. Enter **eg206** for Connection Name, **user** for Username and **eg206** for Default Schema. Click the OK button to open the connection.



Observe that under Schemas, only **egt206** can be seen and there are no tables now.

