Introduction & Operations in SQL

Session Objectives:

- Understand what databases are and why they matter
- Differentiate between various types of databases
- Grasp the importance and use of SQL in real-world scenarios
- Get familiar with SQL installation and the Mysql Workbench interface
- Import datasets into MySQL Workbench
- Use SELECT statements to explore data
- Understand and apply the DESCRIBE function
- Recognise SQL data types
- Use the WHERE clause for filtering

What is Raw Data? -> Missing Values , Incorrect Format , Heterogenous [Mixed Info]

-> Uncleaned/Unstructured data that can be transformed into insights.

What is Database? → Table Format [Structured Data] [rows & Columns Format]

Homogeneous [Same Data Type]

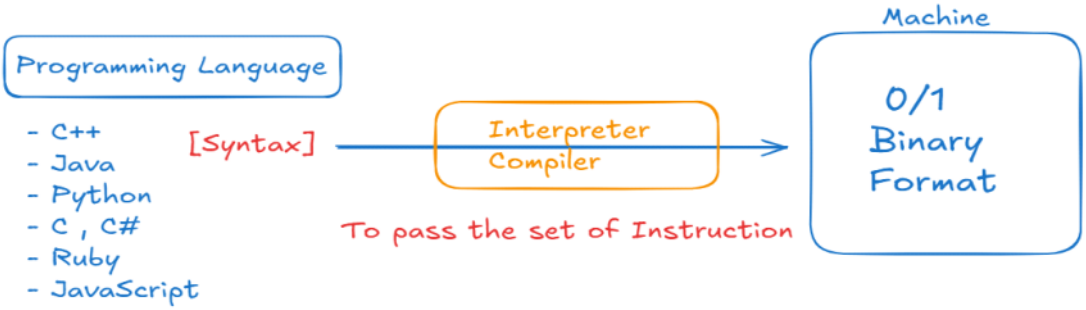
A Database is an organized collection of data.

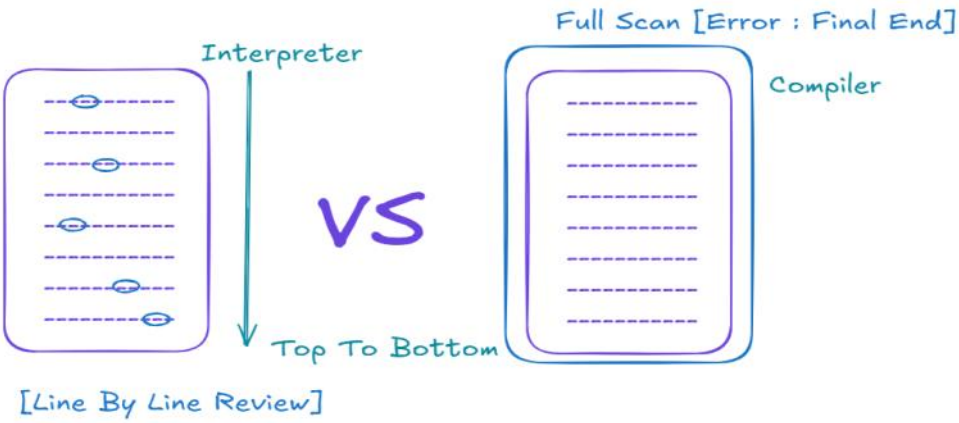
1. Efficient Storage
2. Quick Retrieval
3. Easy Management & Modification

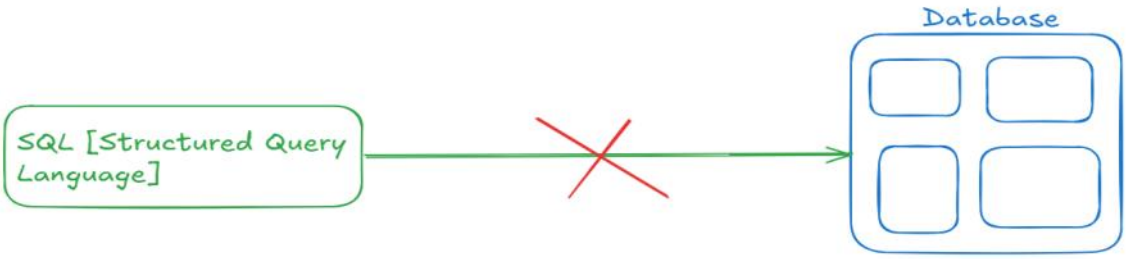
What is SQL? → A Structured Query Language

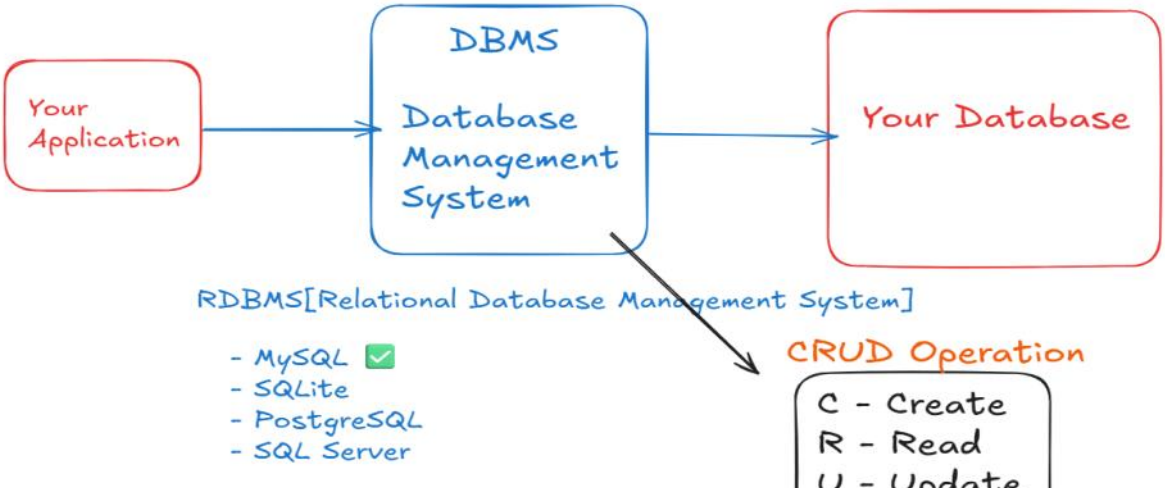
What is Language?

We require Common Language to communicate



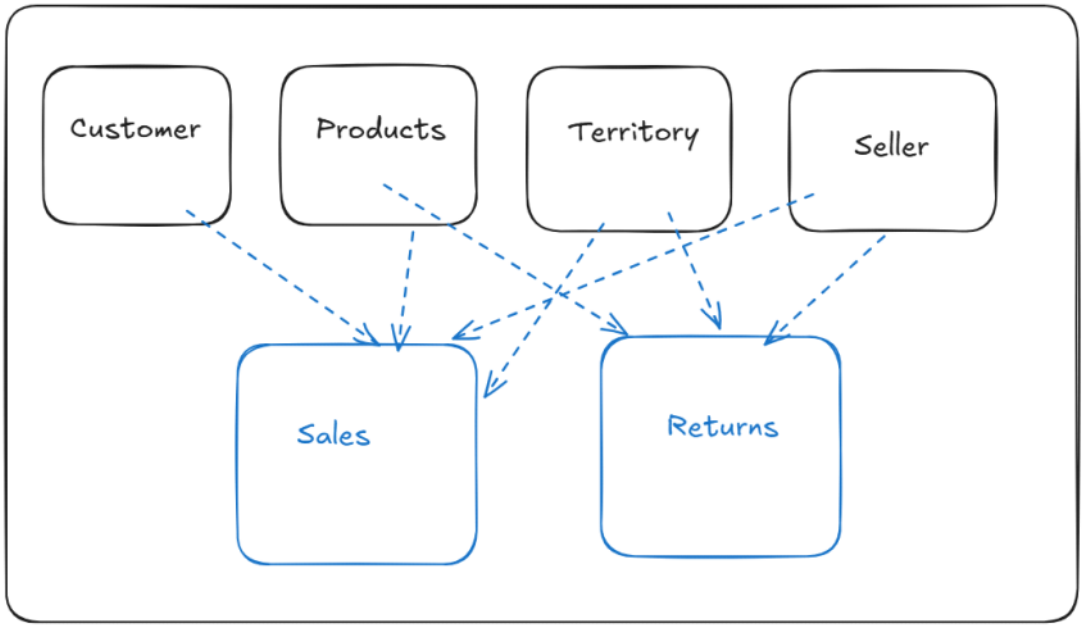






DBA - Database Administrator

Schemas



SQL -> JOINS

1. INNER JOIN
2. LEFT JOIN
3. RIGHT JOIN
4. SELF JOIN
5. CROSS JOIN

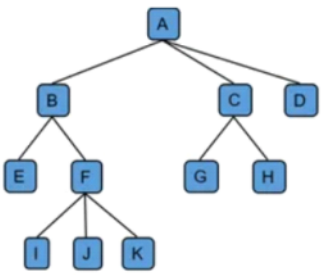
Types of Database:

1. Relational Database[RDBMS] ✅

2. Hierarchical Database
[Only One Parent]
[To store data in rigid Structure]
Eg: [IBM IMS , Window Registry]

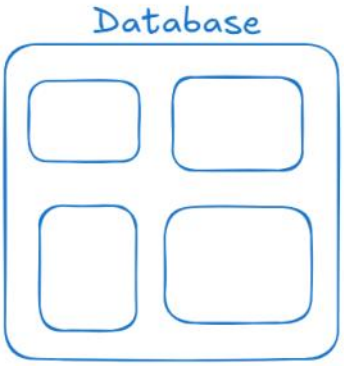
3. Network Database
[Similar to Hierarchy]
[M:M Relationship]

4. NoSQL Database [Not only SQL]
   Unstructured/Semi-structured data
   [MongoDB]



Your Database:

Tablenames	Records
Customers	91
Categories	8
Employees	10
OrderDetails	518
Orders	196
Products	77
Shippers	3
Suppliers	29



SQL Statement:

```
SELECT * FROM Customers;
```

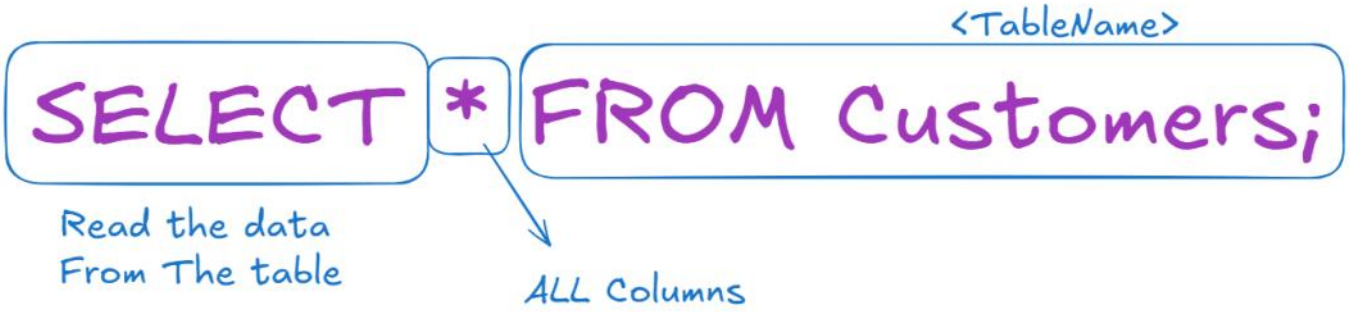
Write SQL Query : MySQL

Run SQL »

Result:

Click **'Run SQL'** to execute the SQL statement above.

Output



Number of Records: 91

CustomerID	CustomerName	ContactName	Address	City	PostalCode	Country
1	Alfreds Futterkiste	Maria Anders	Obere Str. 57	Berlin	12209	Germany
2	Ana Trujillo Emparedados y helados	Ana Trujillo	Avda. de la Constitución 2222	México D.F.	05021	Mexico
3	Antonio Moreno Taquería	Antonio Moreno	Mataderos 2312	México D.F.	05023	Mexico
4	Around the Horn	Thomas Hardy	120 Hanover Sq.	London	WA1 1DP	UK
5	Berglunds snabbköp	Christina Berglund	Berguvsvägen 8	Luleå	S-958 22	Sweden

```
SELECT CustomerName , City , Country FROM Customers;
```

Number of Records: 91

CustomerName	City	Country
Alfreds Futterkiste	Berlin	Germany
Ana Trujillo Emparedados y helados	México D.F.	Mexico
Antonio Moreno Taquería	México D.F.	Mexico
Around the Horn	London	UK
Berglunds snabbköp	Luleå	Sweden
Blauer See Delikatessen	Mannheim	Germany
Blondel père et fils	Strasbourg	France

```
SELECT * FROM Employees;
```

Number of Records: 10

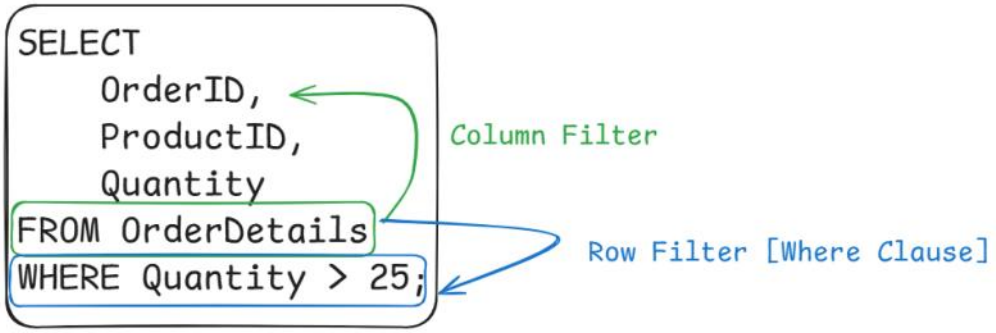
EmployeeID	LastName	FirstName	BirthDate	Photo	Notes
1	Davolio	Nancy	12/8/1968	EmpID1.pic	Education includes a BA in psychology from Colorado State University. She also completed (The Art of the Cold Call). Nancy is a member of 'Toastmasters International'.
2	Fuller	Andrew	2/19/1952	EmpID2.pic	Andrew received his BTS commercial and a Ph.D. in international marketing from the University of Dallas. He is fluent in French and Italian and reads German. He joined the company as a sales representative, was promoted to sales manager and was then named vice president of sales. Andrew is a

```
SELECT BirthDate , FirstName , LastName FROM Employees;
```

Result:

Number of Records: 10

BirthDate	FirstName	LastName
12/8/1968	Nancy	Davolio
2/19/1952	Andrew	Fuller
8/30/1963	Janet	Leverling
9/19/1958	Margaret	Peacock
3/4/1955	Steven	Buchanan
7/2/1963	Michael	Suyama
5/29/1960	Robert	King
1/9/1958	Laura	Callahan



Number of Records: 180

OrderID	ProductID	Quantity
10249	51	40
10250	51	35
10252	20	40
10252	60	40
10253	39	42
10253	49	40
10255	16	35
10255	59	30

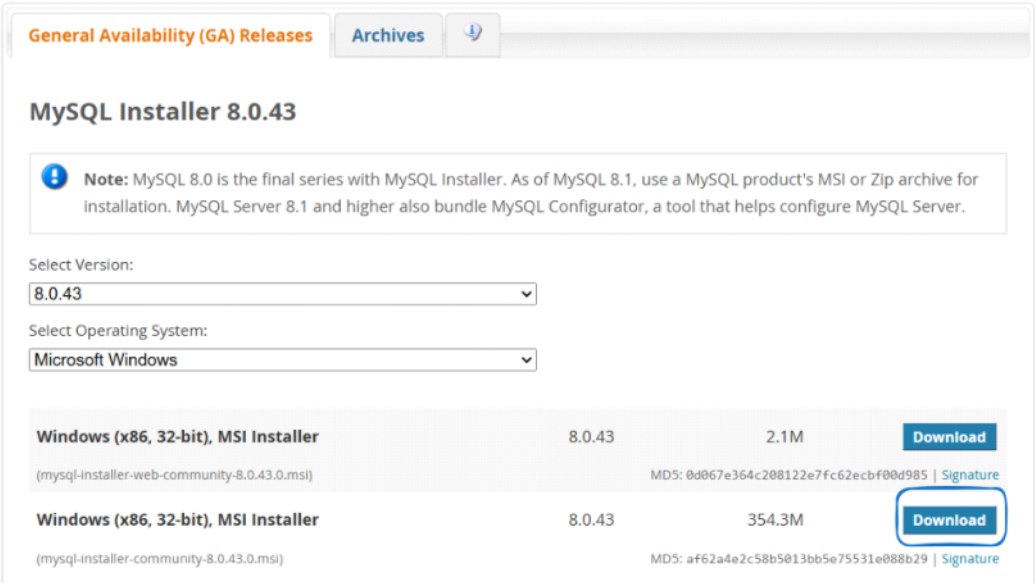
```
SELECT
    OrderID,
    SUM(Quantity) AS TotalQuantity
FROM OrderDetails
GROUP BY OrderID;
```

Number of Records: 196

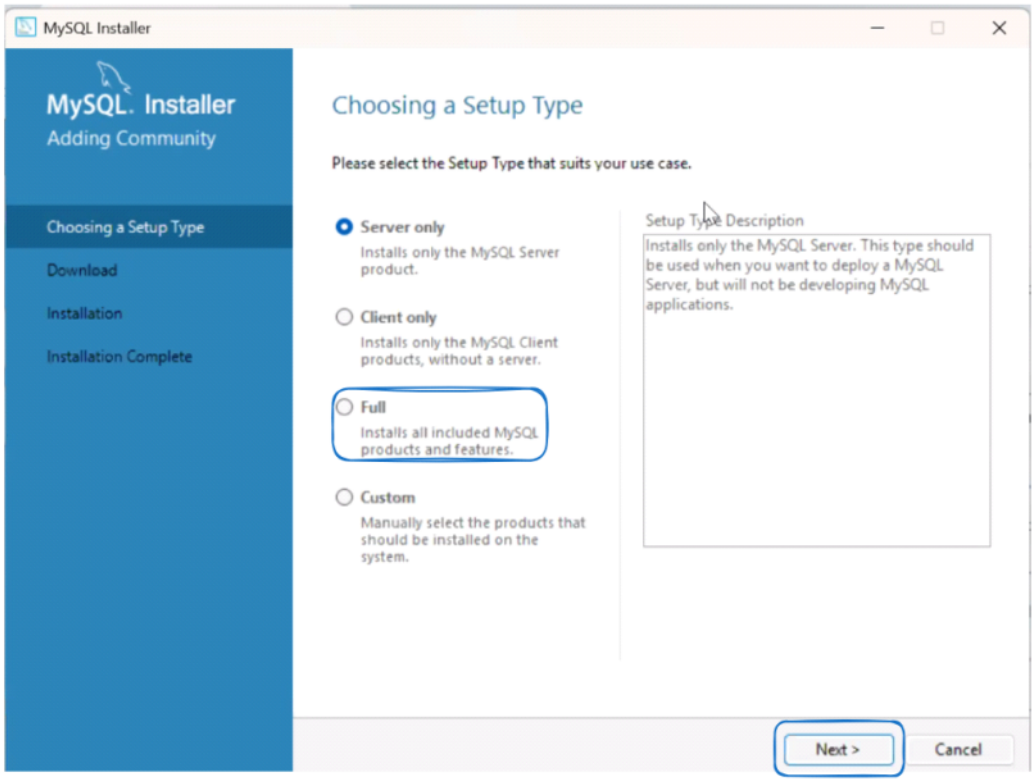
OrderID	TotalQuantity
10248	27
10249	49
10250	60
10251	41
10252	105
10253	102
10254	57
10255	110

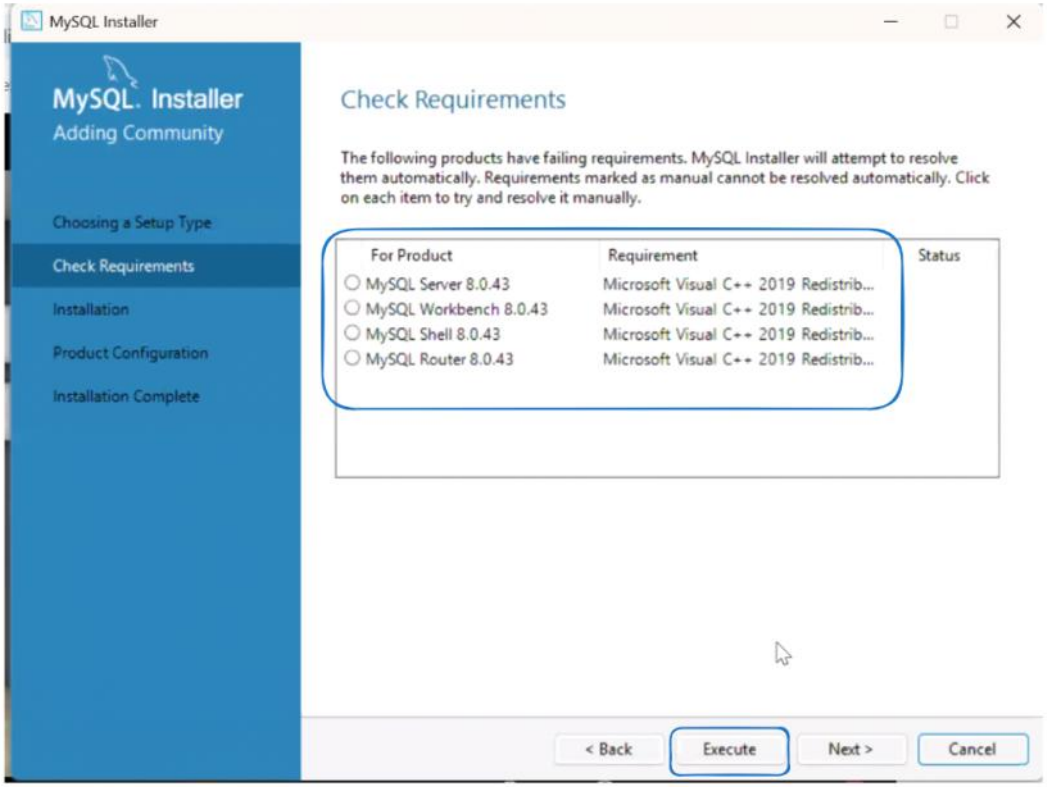
Installation

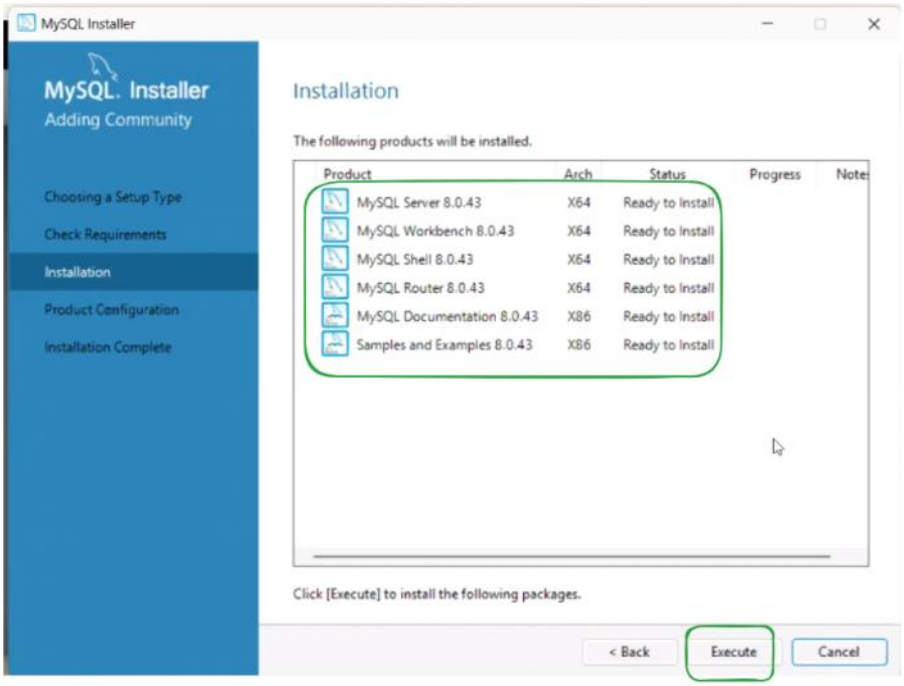
https://dev.mysql.com/downloads/windows/installer/

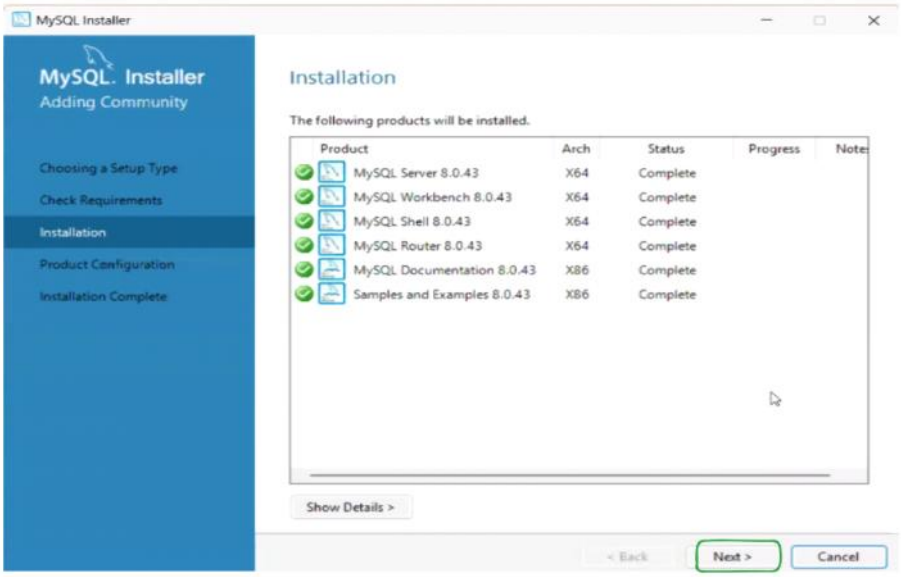


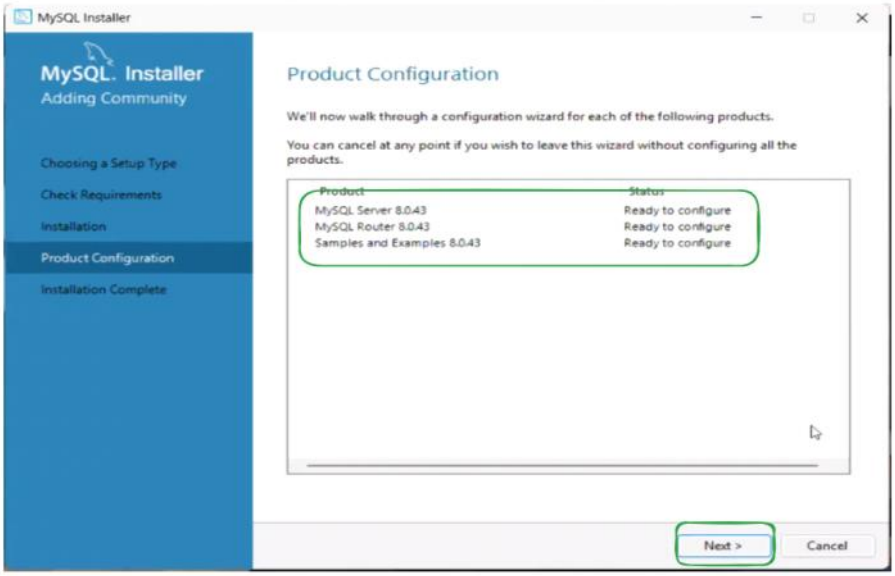
No thanks, just start my download.

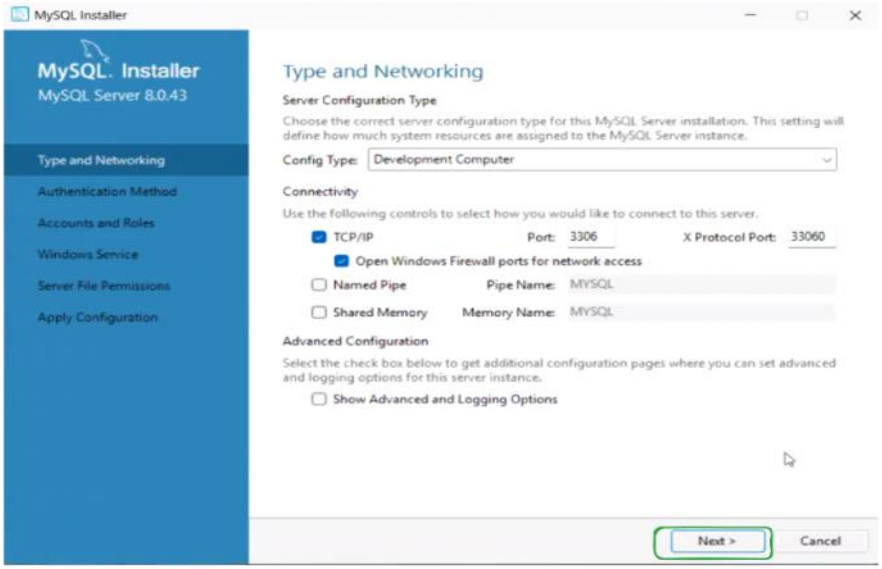


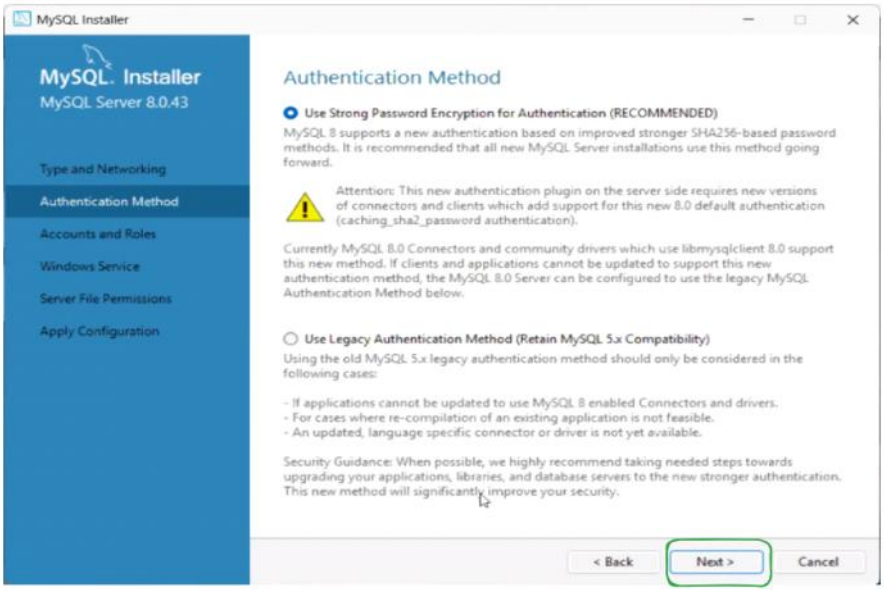

MySQL Installer
MySQL. Installer
Adding Community
Choosing a Setup Type
Check Requirements
Installation
Product Configuration
Installation Complete
Check Requirements
The following products have failing requirements. MySQL Installer will attempt to resolve them automatically. Requirements marked as manual cannot be resolved automatically. Click on each item to try and resolve it manually.
For Product
Requirement
Status
MySQL Server 8.0.43
Microsoft Visual C++ 2019 Redistrib...
MySQL Workbench 8.0.43
Microsoft Visual C++ 2019 Redistrib...
MySQL Shell 8.0.43
Microsoft Visual C++ 2019 Redistrib...
MySQL Router 8.0.43
Microsoft Visual C++ 2019 Redistrib...
< Back
Execute
Next >
Cancel

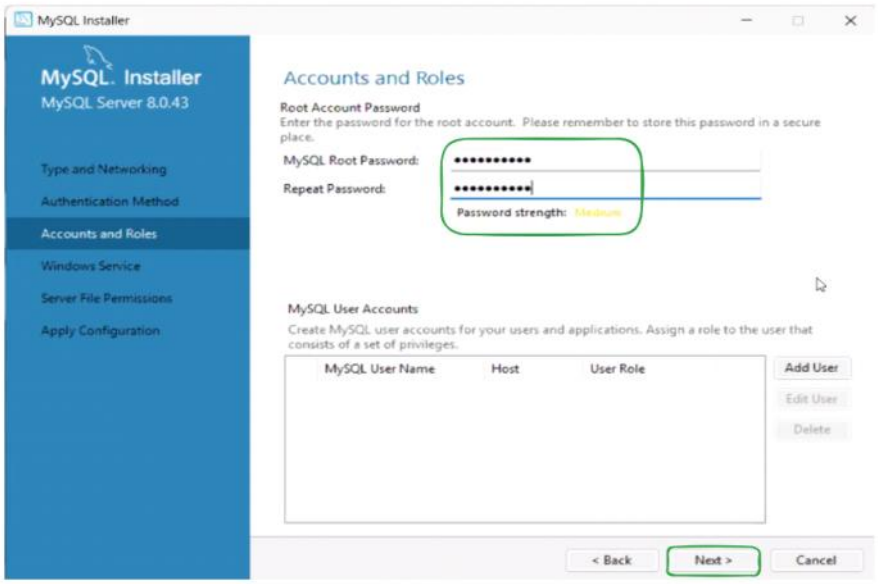

MySQL Installer
MySQL. Installer
Adding Community
Choosing a Setup Type
Check Requirements
Installation
Product Configuration
Installation Complete
Installation
The following products will be installed.
Product
Arch
Status
Progress
Note
MySQL Server 8.0.43
X64
Ready to Install
MySQL Workbench 8.0.43
X64
Ready to Install
MySQL Shell 8.0.43
X64
Ready to Install
MySQL Router 8.0.43
X64
Ready to Install
MySQL Documentation 8.0.43
X86
Ready to Install
Samples and Examples 8.0.43
X86
Ready to Install
Click [Execute] to install the following packages.
< Back
Execute
Cancel

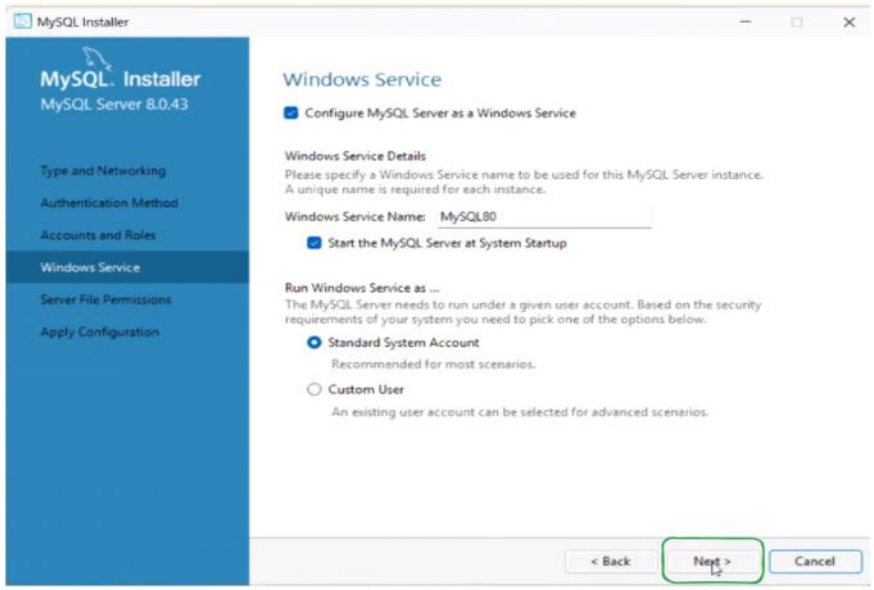

MySQL Installer
MySQL. Installer
Adding Community
Choosing a Setup Type
Check Requirements
Installation
Product Configuration
Installation Complete
Installation
The following products will be installed.
Product
Arch
Status
Progress
Note
MySQL Server 8.0.43
X64
Complete
MySQL Workbench 8.0.43
X64
Complete
MySQL Shell 8.0.43
X64
Complete
MySQL Router 8.0.43
X64
Complete
MySQL Documentation 8.0.43
X86
Complete
Samples and Examples 8.0.43
X86
Complete
Show Details >
< Back
Next >
Cancel

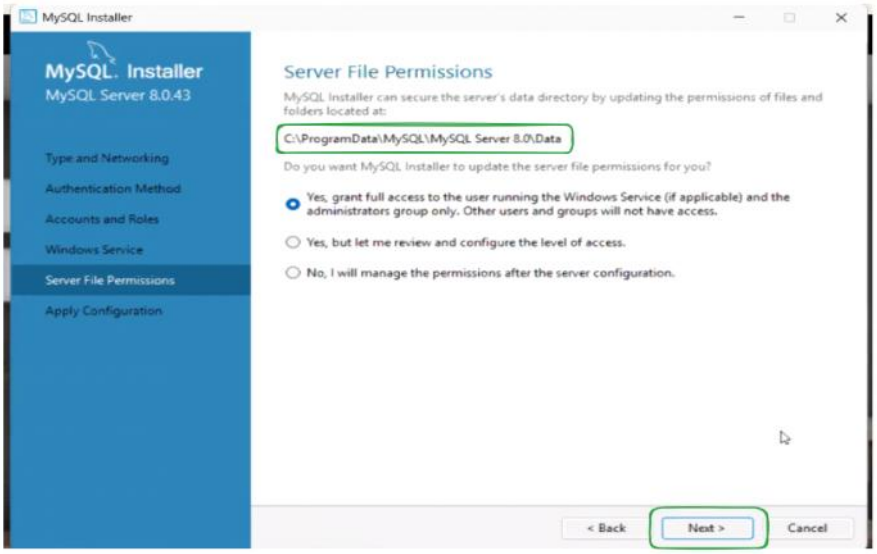

MySQL Installer
MySQL. Installer
Adding Community
Choosing a Setup Type
Check Requirements
Installation
Product Configuration
Installation Complete
Product Configuration
We'll now walk through a configuration wizard for each of the following products.
You can cancel at any point if you wish to leave this wizard without configuring all the products.
Product
Status
MySQL Server 8.0.43
Ready to configure
MySQL Router 8.0.43
Ready to configure
Samples and Examples 8.0.43
Ready to configure
Next >
Cancel

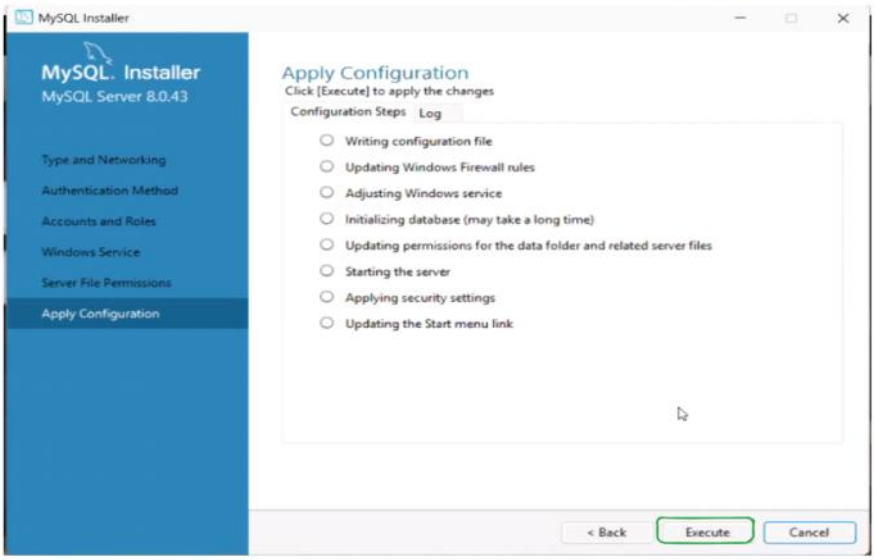

MySQL Installer
MySQL. Installer
MySQL Server 8.0.43
Type and Networking
Authentication Method
Accounts and Roles
Windows Service
Server File Permissions
Apply Configuration
Type and Networking
Server Configuration Type
Choose the correct server configuration type for this MySQL Server installation. This setting will define how much system resources are assigned to the MySQL Server instance.
Config Type: Development Computer
Connectivity
Use the following controls to select how you would like to connect to this server.
TCP/IP
Port: 3306
X Protocol Port: 33060
Open Windows Firewall ports for network access
Named Pipe
Pipe Name: MYSQL
Shared Memory
Memory Name: MYSQL
Advanced Configuration
Select the check box below to get additional configuration pages where you can set advanced and logging options for this server instance.
Show Advanced and Logging Options
Next >
Cancel

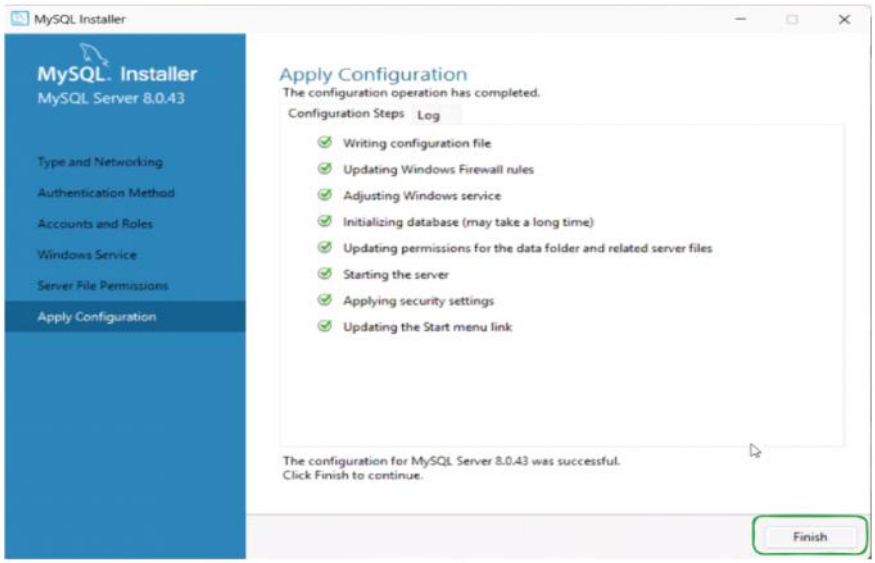

MySQL Installer
MySQL. Installer
MySQL Server 8.0.43
Type and Networking
Authentication Method
Accounts and Roles
Windows Service
Server File Permissions
Apply Configuration
Authentication Method
Use Strong Password Encryption for Authentication (RECOMMENDED)
MySQL 8 supports a new authentication based on improved stronger SHA256-based password methods. It is recommended that all new MySQL Server installations use this method going forward.
Attention: This new authentication plugin on the server side requires new versions of connectors and clients which add support for this new 8.0 default authentication (caching_sha2_password authentication).
Currently MySQL 8.0 Connectors and community drivers which use libmysqlclient 8.0 support this new method. If clients and applications cannot be updated to support this new authentication method, the MySQL 8.0 Server can be configured to use the legacy MySQL Authentication Method below.
Use Legacy Authentication Method (Retain MySQL 5.x Compatibility)
Using the old MySQL 5.x legacy authentication method should only be considered in the following cases:
- If applications cannot be updated to use MySQL 8 enabled Connectors and drivers.
- For cases where re-compilation of an existing application is not feasible.
- An updated, language specific connector or driver is not yet available.
Security Guidance: When possible, we highly recommend taking needed steps towards upgrading your applications, libraries, and database servers to the new stronger authentication. This new method will significantly improve your security.
< Back
Next >
Cancel

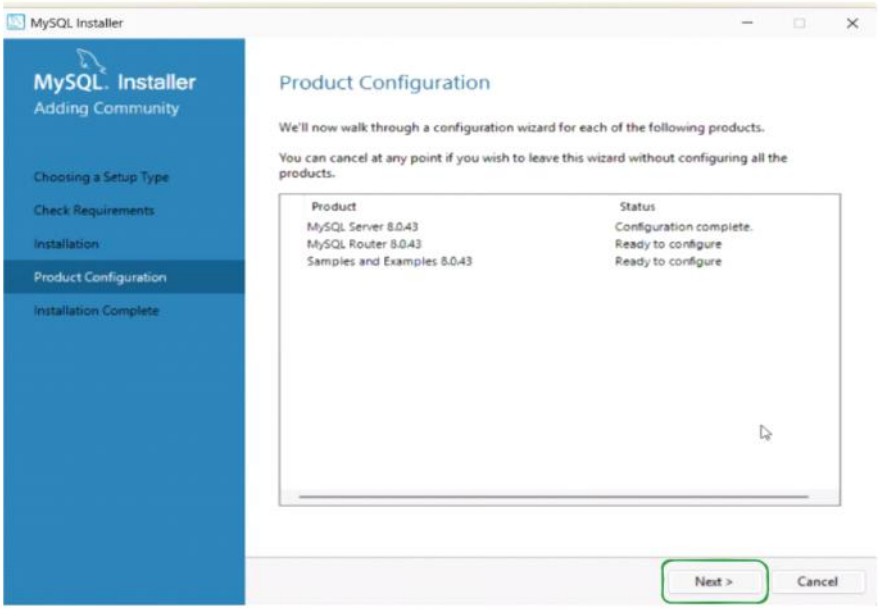

MySQL Installer
MySQL. Installer
MySQL Server 8.0.43
Type and Networking
Authentication Method
Accounts and Roles
Windows Service
Server File Permissions
Apply Configuration
Accounts and Roles
Root Account Password
Enter the password for the root account. Please remember to store this password in a secure place.
MySQL Root Password:
Repeat Password:
Password strength: Medium
MySQL User Accounts
Create MySQL user accounts for your users and applications. Assign a role to the user that consists of a set of privileges.
MySQL User Name
Host
User Role
Add User
Edit User
Delete
< Back
Next >
Cancel

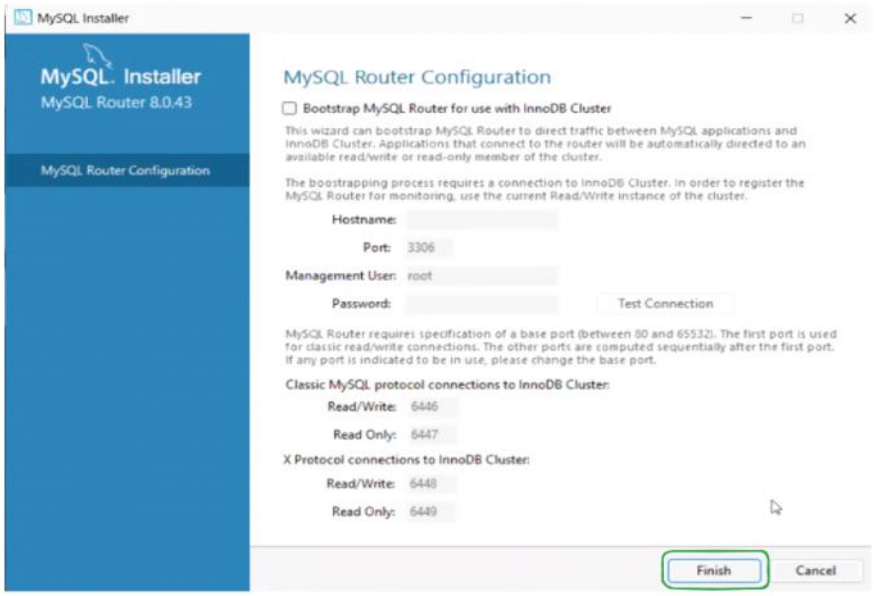

MySQL Installer
MySQL. Installer
MySQL Server 8.0.43
Type and Networking
Authentication Method
Accounts and Roles
Windows Service
Server File Permissions
Apply Configuration
Windows Service
Configure MySQL Server as a Windows Service
Windows Service Details
Please specify a Windows Service name to be used for this MySQL Server instance.
A unique name is required for each instance.
Windows Service Name: MySQL80
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.
< Back
Next >
Cancel

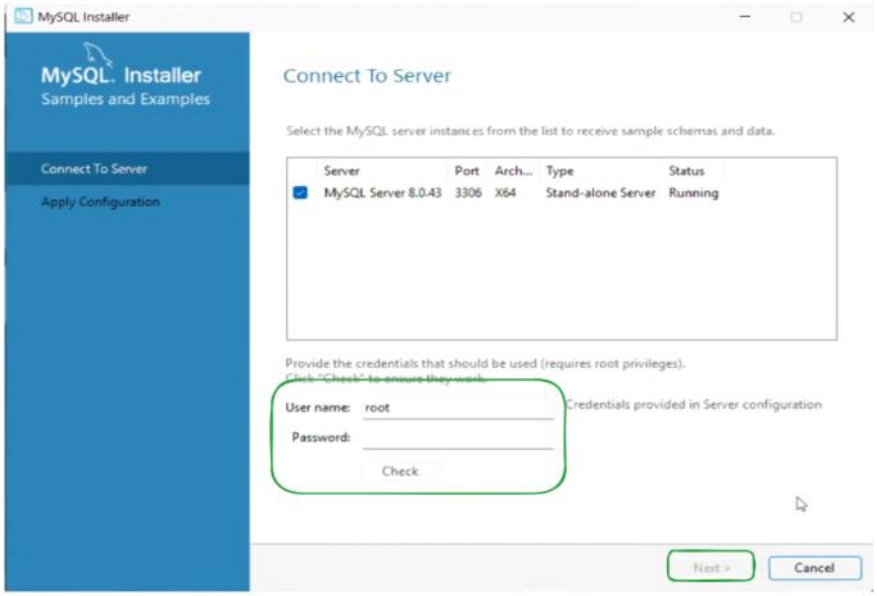

MySQL Installer
MySQL. Installer
MySQL Server 8.0.43
Type and Networking
Authentication Method
Accounts and Roles
Windows Service
Server File Permissions
Apply Configuration
Server File Permissions
MySQL Installer can secure the server's data directory by updating the permissions of files and folders 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.
< Back
Next >
Cancel

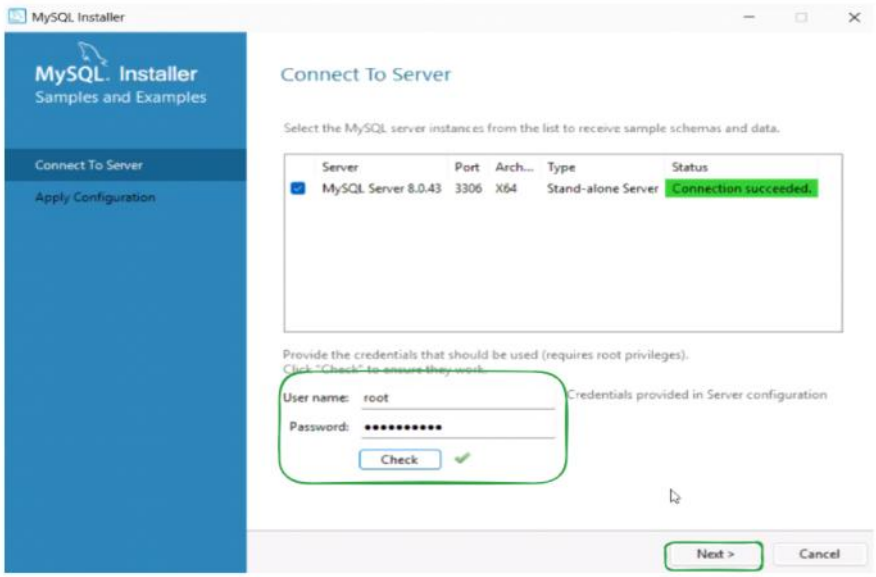

MySQL Installer
MySQL. Installer
MySQL Server 8.0.43
Type and Networking
Authentication Method
Accounts and Roles
Windows Service
Server File Permissions
Apply Configuration
Apply Configuration
Click [Execute] to apply the changes
Configuration Steps
Log
Writing configuration file
Updating Windows Firewall 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
Updating the Start menu link
< Back
Execute
Cancel

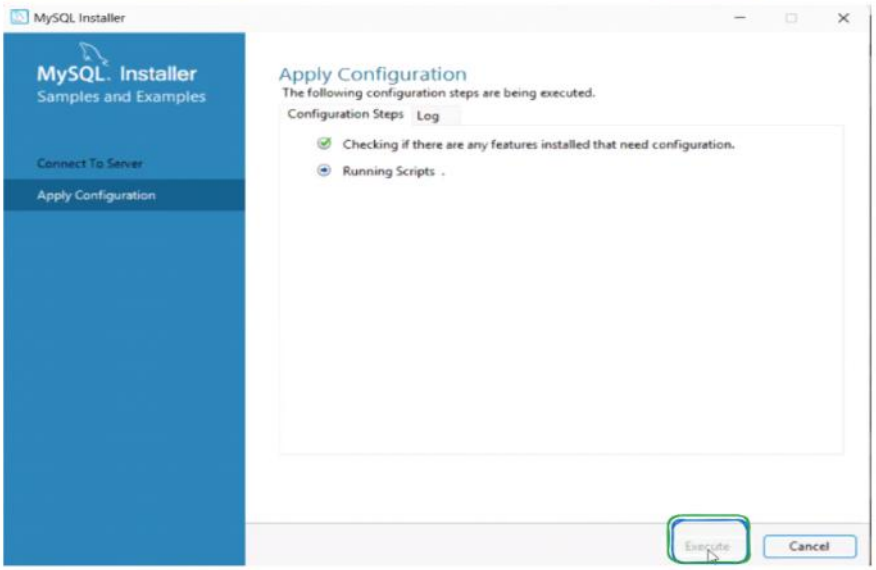

MySQL Installer
MySQL. Installer
MySQL Server 8.0.43
Type and Networking
Authentication Method
Accounts and Roles
Windows Service
Server File Permissions
Apply Configuration
Apply Configuration
The configuration operation has completed.
Configuration Steps
Log
Writing configuration file
Updating Windows 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
Updating the Start menu link
The configuration for MySQL Server 8.0.43 was successful.
Click Finish to continue.
Finish

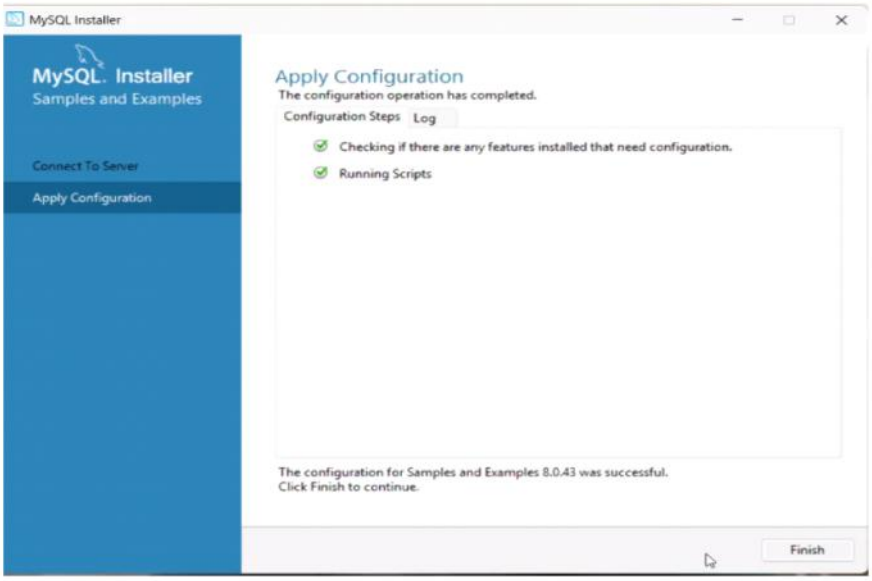

MySQL Installer
MySQL. Installer
Adding Community
Choosing a Setup Type
Check Requirements
Installation
Product Configuration
Installation Complete
Product Configuration
We'll now walk through a configuration wizard for each of the following products.
You can cancel at any point if you wish to leave this wizard without configuring all the products.
Product
Status
MySQL Server 8.0.43
Configuration complete.
MySQL Router 8.0.43
Ready to configure
Samples and Examples 8.0.43
Ready to configure
Next >
Cancel

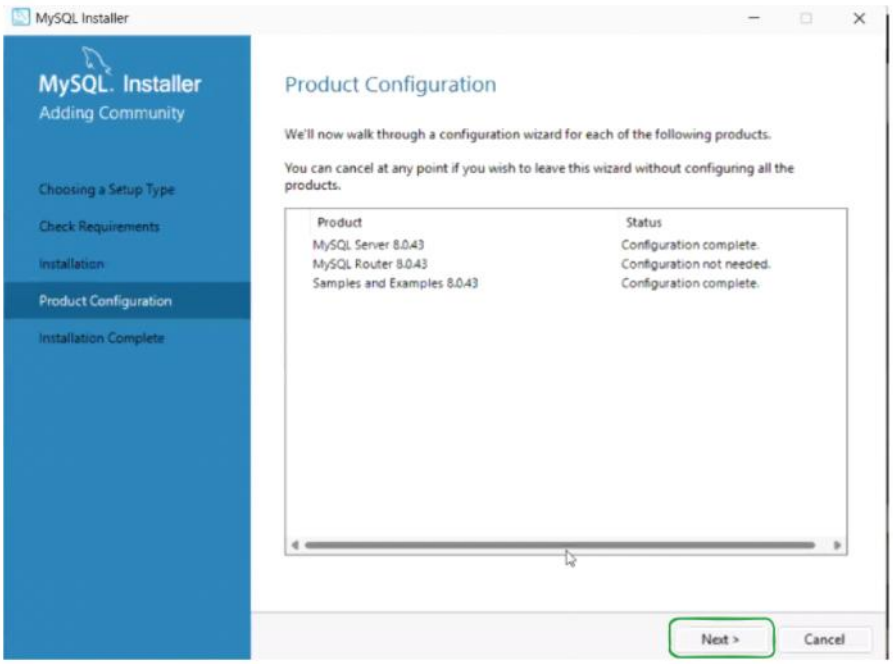

MySQL Installer
MySQL. Installer
MySQL Router 8.0.43
MySQL Router Configuration
MySQL Router Configuration
Bootstrap MySQL Router for use with InnoDB Cluster
This wizard can bootstrap MySQL Router to direct traffic between MySQL applications and InnoDB Cluster. Applications that connect to the router will be automatically directed to an available read/write or read-only member of the cluster.
The boostrapping process requires a connection to InnoDB Cluster. In order to register the MySQL Router for monitoring, use the current Read/Write instance of the cluster.
Hostname:
Port: 3306
Management User: root
Password:
Test Connection
MySQL Router requires specification of a base port (between 80 and 65532). The first port is used for classic read/write connections. The other ports are computed sequentially after the first port. If any port is indicated to be in use, please change the base port.
Classic MySQL protocol connections to InnoDB Cluster:
Read/Write: 6446
Read Only: 6447
X Protocol connections to InnoDB Cluster:
Read/Write: 6448
Read Only: 6449
Finish
Cancel

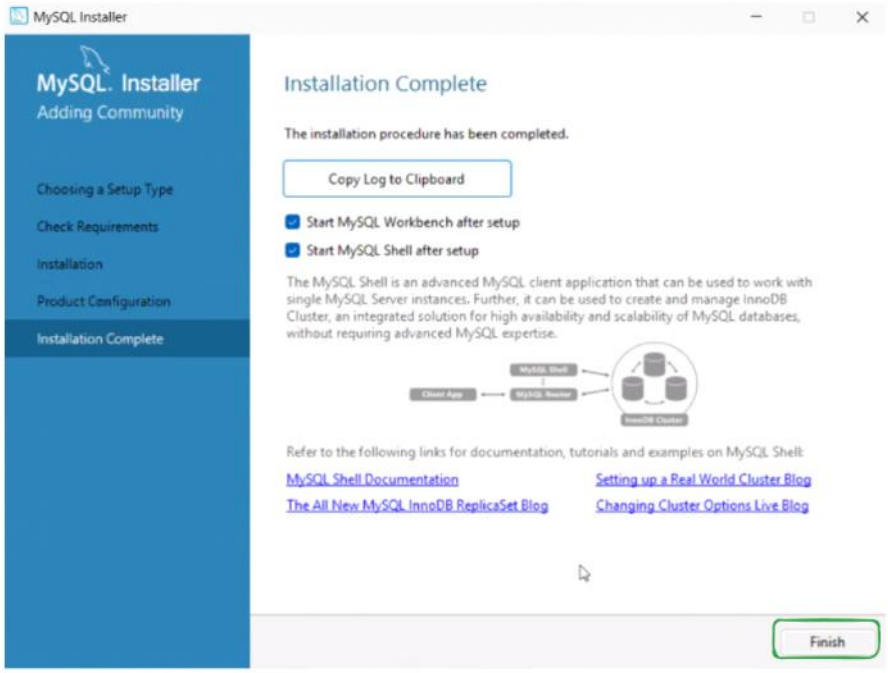

MySQL Installer
MySQL. Installer
Samples and Examples
Connect To Server
Apply Configuration
Connect To Server
Select the MySQL server instances from the list to receive sample schemas and data.
Server
Port
Arch...
Type
Status
MySQL Server 8.0.43
3306
X64
Stand-alone Server
Running
Provide the credentials that should be used (requires root privileges).
Click "Check" to ensure they work.
User name: root
Password:
Check
Credentials provided in Server configuration
Next >
Cancel

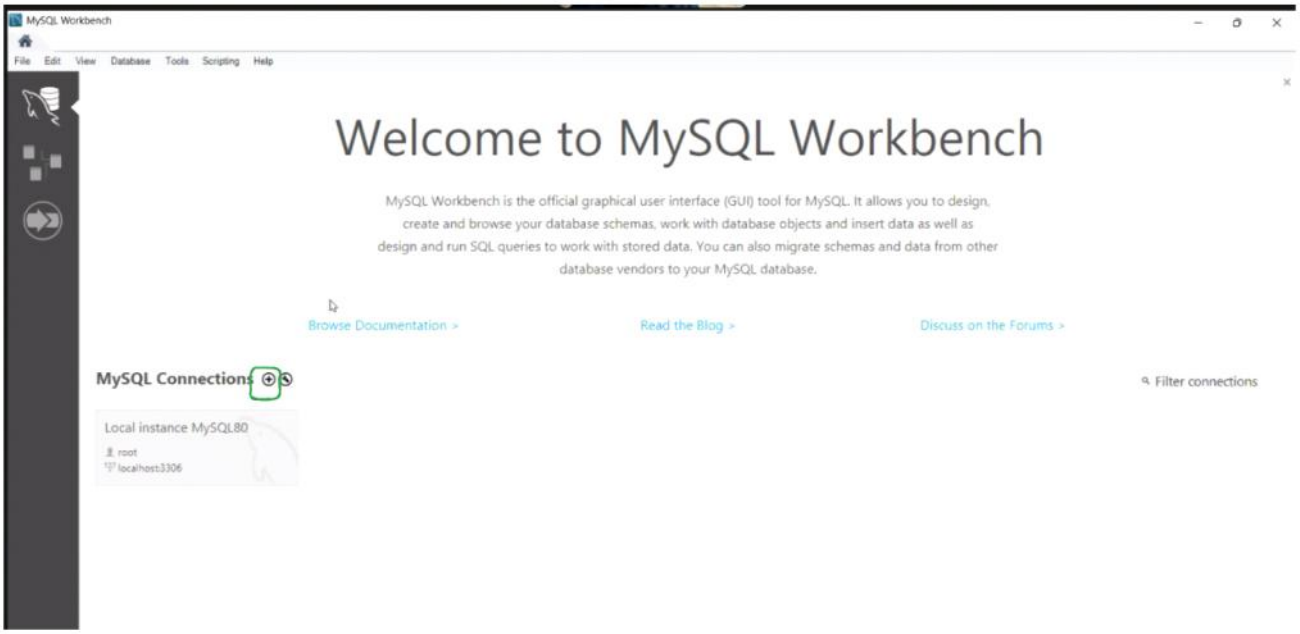

MySQL Installer
MySQL. Installer
Samples and Examples
Connect To Server
Apply Configuration
Connect To Server
Select the MySQL server instances from the list to receive sample schemas and data.
Server
Port
Arch...
Type
Status
MySQL Server 8.0.43
3306
X64
Stand-alone Server
Connection succeeded.
Provide the credentials that should be used (requires root privileges).
User name:
root
Password:
Credentials provided in Server configuration
Check
Next >
Cancel

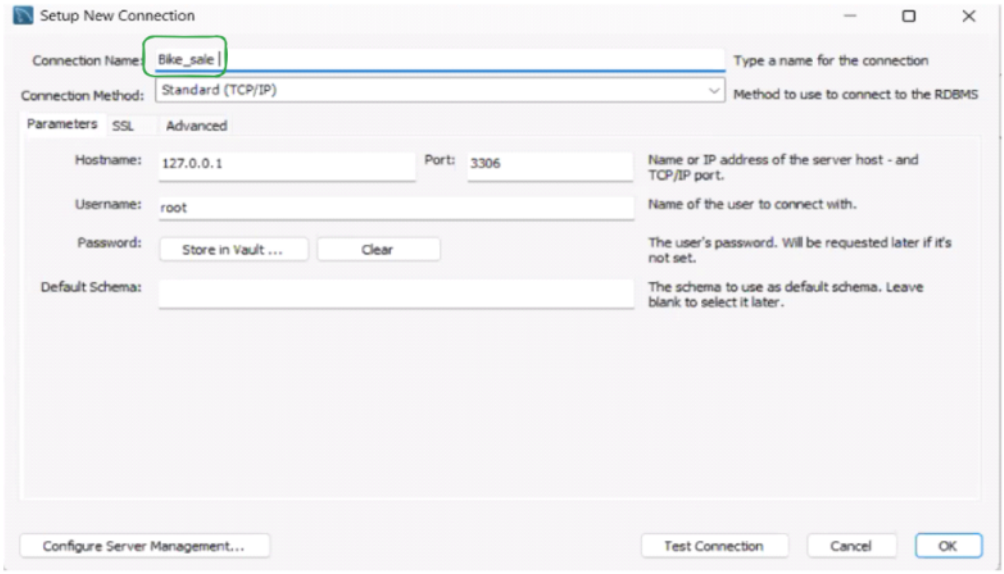

MySQL Installer
MySQL. Installer
Samples and Examples
Connect To Server
Apply Configuration
Apply Configuration
The following configuration steps are being executed.
Configuration Steps
Log
Checking if there are any features installed that need configuration.
Running Scripts .
Execute
Cancel

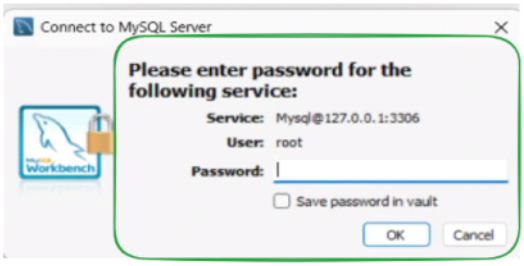

MySQL Installer
MySQL. Installer
Samples and Examples
Connect To Server
Apply Configuration
Apply Configuration
The configuration operation has completed.
Configuration Steps
Log
Checking if there are any features installed that need configuration.
Running Scripts
The configuration for Samples and Examples 8.0.43 was successful.
Click Finish to continue.
Finish

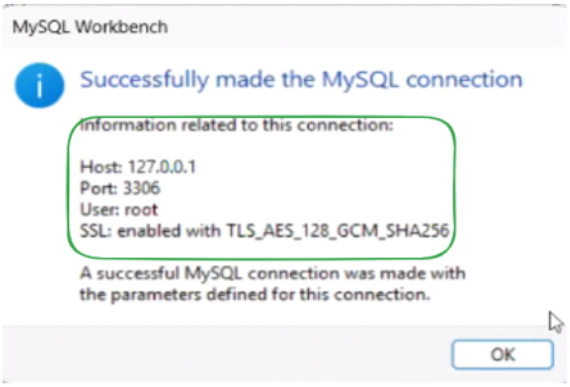

MySQL Installer
MySQL. Installer
Adding Community
Choosing a Setup Type
Check Requirements
Installation
Product Configuration
Installation Complete
Product Configuration
We'll now walk through a configuration wizard for each of the following products.
You can cancel at any point if you wish to leave this wizard without configuring all the products.
Product
Status
MySQL Server 8.0.43
Configuration complete.
MySQL Router 8.0.43
Configuration not needed.
Samples and Examples 8.0.43
Configuration complete.
Next >
Cancel

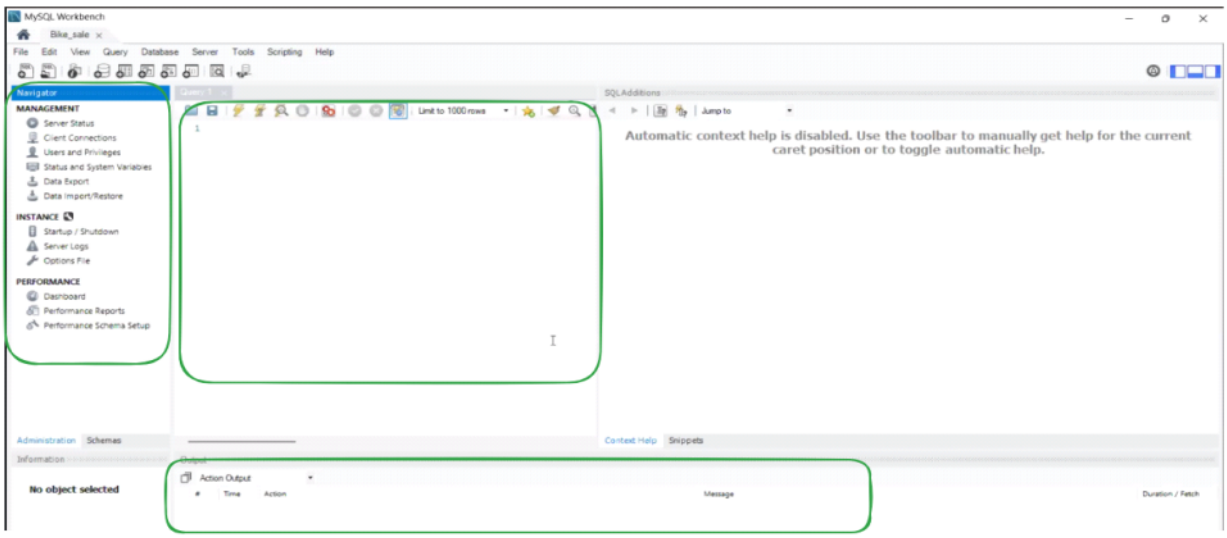

MySQL Installer
MySQL. Installer
Adding Community
Choosing a Setup Type
Check Requirements
Installation
Product Configuration
Installation Complete
Installation Complete
The installation procedure has been completed.
Copy Log to Clipboard
Start MySQL Workbench after setup
Start MySQL Shell after setup
The MySQL Shell is an advanced MySQL client application that can be used to work with single MySQL Server instances. Further, it can be used to create and manage InnoDB Cluster, an integrated solution for high availability and scalability of MySQL databases, without requiring advanced MySQL expertise.
Refer to the following links for documentation, tutorials and examples on MySQL Shell:
MySQL Shell Documentation
Setting up a Real World Cluster Blog
The All New MySQL InnoDB ReplicaSet Blog
Changing Cluster Options Live Blog
Finish

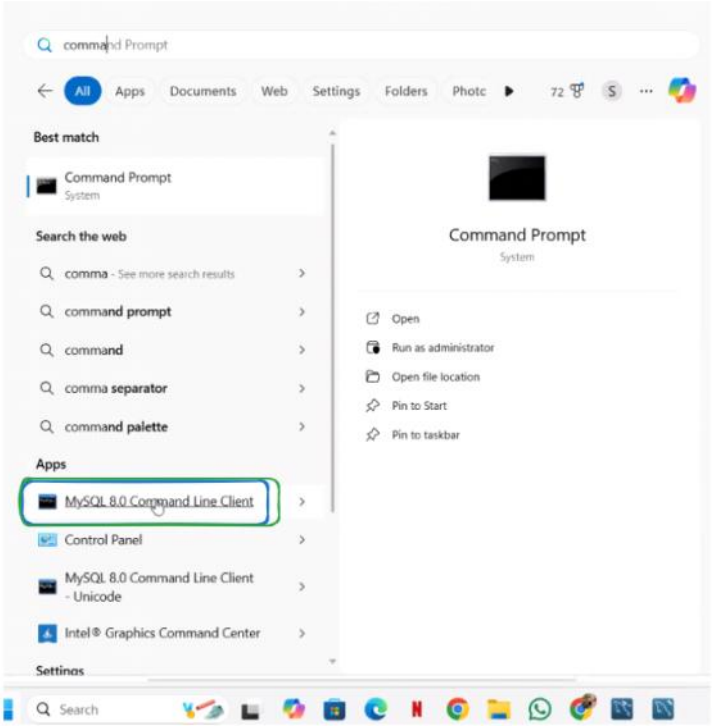

MySQL Workbench
File Edit View Database Tools Scripting Help
Welcome to MySQL Workbench
MySQL Workbench is the official graphical user interface (GUI) tool for MySQL. It allows you to design, create and browse your database schemas, work with database objects and insert data as well as design and run SQL queries to work with stored data. You can also migrate schemas and data from other database vendors to your MySQL database.
Browse Documentation >
Read the Blog >
Discuss on the Forums >
MySQL Connections
Filter connections
Local instance MySQL80
root
localhost:3306

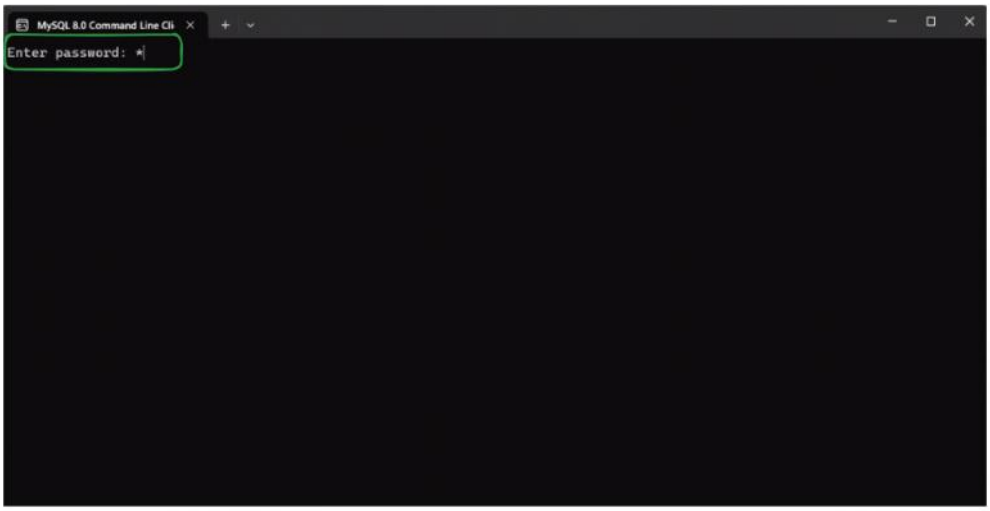

Setup New Connection
Connection Name:
Bike_sale
Type a name for the connection
Connection Method:
Standard (TCP/IP)
Method to use to connect to the RDBMS
Parameters
SSL
Advanced
Hostname:
127.0.0.1
Port:
3306
Name or IP address of the server host - and TCP/IP port.
Username:
root
Name of the user to connect with.
Password:
Store in Vault ...
Clear
The user's password. Will be requested later if it's not set.
Default Schema:
The schema to use as default schema. Leave blank to select it later.
Configure Server Management...
Test Connection
Cancel
OK

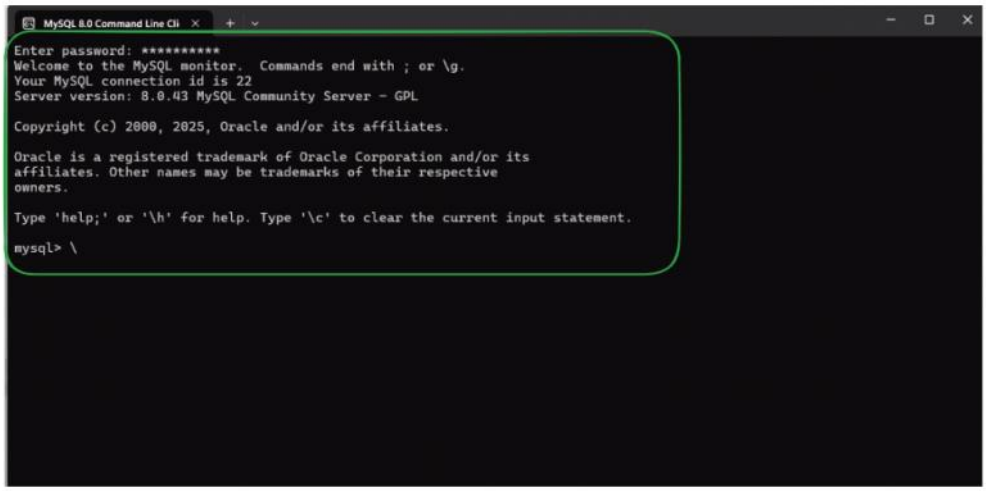

Connect to MySQL Server
Please enter password for the following service:
Service:
Mysql@127.0.0.1:3306
User:
root
Password:
Save password in vault
OK
Cancel

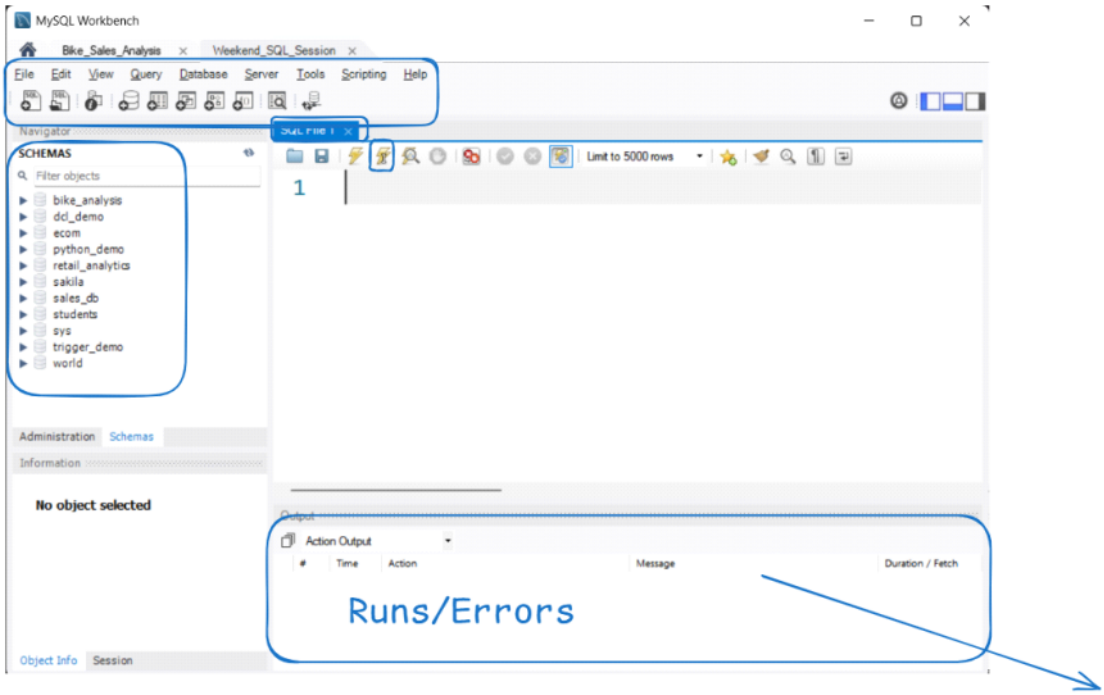

MySQL Workbench
Successfully made the MySQL connection
Information related to this connection:
Host: 127.0.0.1
Port: 3306
User: root
SSL: enabled with TLS_AES_128_GCM_SHA256
A successful MySQL connection was made with the parameters defined for this connection.
OK


MySQL Workbench
Bike_sale
File Edit View Query Database Server Tools Scripting Help
Navigator
MANAGEMENT
Server Status
Client Connections
Users and Privileges
Status and System Variables
Data Export
Data Import/Restore
INSTANCE
Startup / Shutdown
Server Logs
Options File
PERFORMANCE
Dashboard
Performance Reports
Performance Schema Setup
Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.
Administration Schemas
Information
No object selected
Action Output


command Prompt
All
Apps
Documents
Web
Settings
Folders
Photc
Best match
Command Prompt
System
Search the web
comma - See more search results
command prompt
command
comma separator
command palette
Apps
MySQL 8.0 Command Line Client
Control Panel
MySQL 8.0 Command Line Client - Unicode
Intel® Graphics Command Center
Settings
Command Prompt
System
Open
Run as administrator
Open file location
Pin to Start
Pin to taskbar
Search


MySQL 8.0 Command Line Cli
Enter password:


MySQL 8.0 Command Line Cli
Enter password: **********
Welcome to the MySQL monitor. Commands end with ; or \g.
Your MySQL connection id is 22
Server version: 8.0.43 MySQL Community Server - GPL
Copyright (c) 2000, 2025, Oracle and/or its affiliates.
Oracle is a registered trademark of Oracle Corporation and/or its
affiliates. Other names may be trademarks of their respective
owners.
Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.
mysql> \




```
mysql> SHOW DATABASES;
+--------------------+
| Database           |
+--------------------+
| bike_analysis      |
| dcl_demo           |
| ecom               |
| information_schema |
| mysql              |
| performance_schema |
| python_demo        |
| retail_analytics   |
| sakila             |
| sales_db           |
| students           |
| sys                |
| trigger_demo       |
| world              |
+--------------------+
14 rows in set (0.02 sec)
```

USE <Db_name>;

SELECT DATABASE()

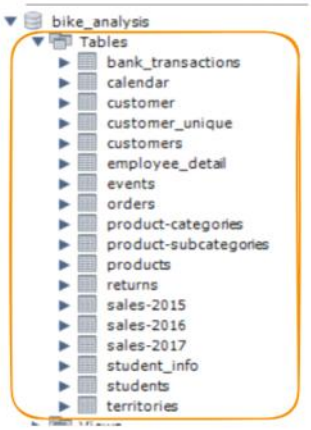
Which database you have currently selected

```
mysql> SELECT DATABASE();
+------------+
| DATABASE() |
+------------+
| NULL       |
+------------+
1 row in set (0.06 sec)
```

No Database Selected Yet.

```
mysql> USE bike_analysis;
Database changed
mysql> SELECT DATABASE();
+---------------+
| DATABASE()    |
+---------------+
| bike_analysis |
+---------------+
1 row in set (0.00 sec)
```

Current Database Selected



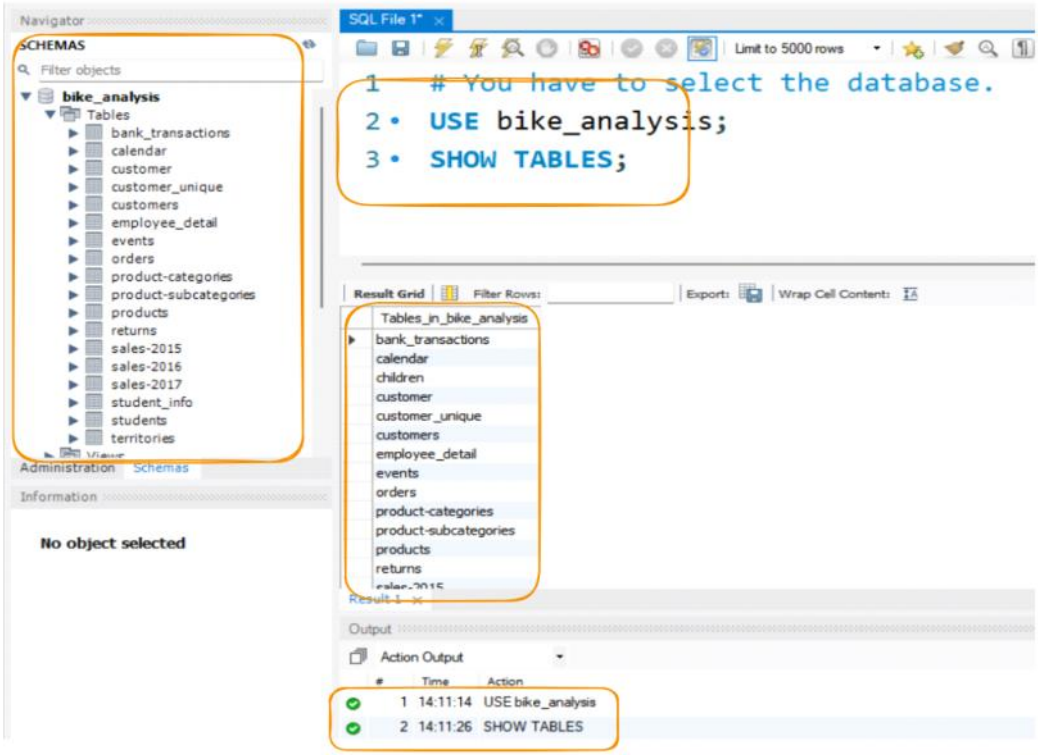
GUI - Graphical User Interface

bike_analysis

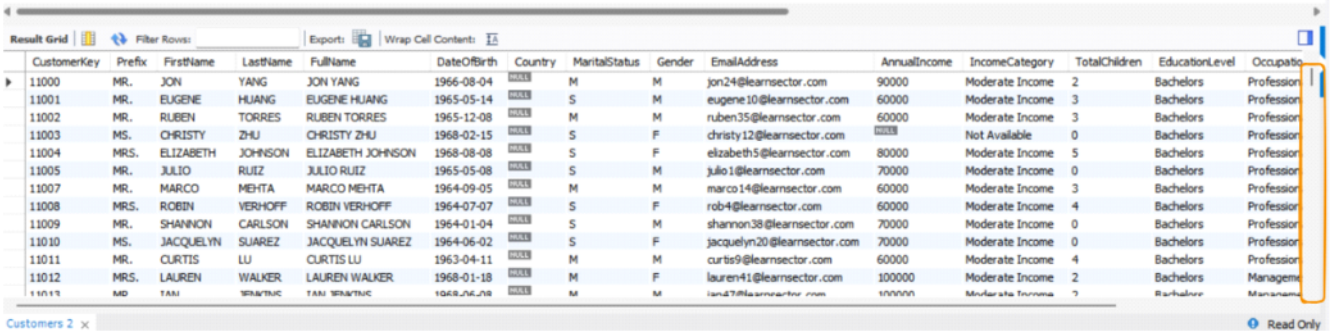
```
mysql> SHOW TABLES;
+-------------------------+
| Tables_in_bike_analysis |
+-------------------------+
| bank_transactions       |
| calendar                |
| children                |
| customer                |
| customer_unique         |
| customers               |
| employee_detail         |
| events                  |
| orders                  |
| product-categories      |
| product-subcategories   |
| products                |
| returns                 |
| sales-2015              |
| sales-2016              |
| sales-2017              |
| salestrend              |
| student_info            |
| students                |
| territories             |
+-------------------------+
20 rows in set (0.16 sec)
```

I want to read the data

```
SELECT * FROM territories;
```



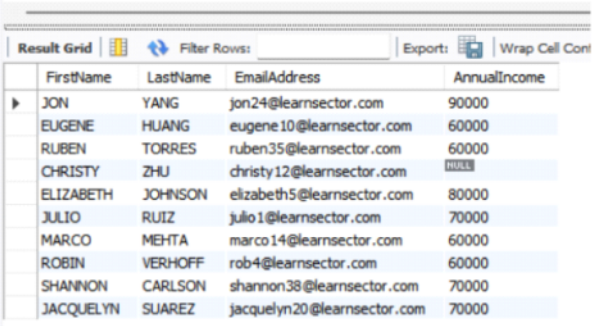
```sql
SELECT * FROM Customers;
```



CustomerKey	Prefix	FirstName	LastName	FullName	DateOfBirth	Country	MaritalStatus	Gender	EmailAddress	AnnualIncome	IncomeCategory	TotalChildren	EducationLevel	Occupatio
11000	MR.	JON	YANG	JON YANG	1966-08-04	NULL	M	M	jon24@learnsector.com	90000	Moderate Income	2	Bachelors	Profession
11001	MR.	EUGENE	HUANG	EUGENE HUANG	1965-05-14	NULL	S	M	eugene10@learnsector.com	60000	Moderate Income	3	Bachelors	Profession
11002	MR.	RUBEN	TORRES	RUBEN TORRES	1965-12-08	NULL	M	M	ruben35@learnsector.com	60000	Moderate Income	3	Bachelors	Profession
11003	MS.	CHRISTY	ZHU	CHRISTY ZHU	1968-02-15	NULL	S	F	christy12@learnsector.com	NULL	Not Available	0	Bachelors	Profession
11004	MRS.	ELIZABETH	JOHNSON	ELIZABETH JOHNSON	1968-08-08	NULL	S	F	elizabeth5@learnsector.com	80000	Moderate Income	5	Bachelors	Profession
11005	MR.	JULIO	RUIZ	JULIO RUIZ	1965-05-08	NULL	S	M	julio1@learnsector.com	70000	Moderate Income	0	Bachelors	Profession
11007	MR.	MARCO	MEHTA	MARCO MEHTA	1964-09-05	NULL	M	M	marco14@learnsector.com	60000	Moderate Income	3	Bachelors	Profession
11008	MRS.	ROBIN	VERHOFF	ROBIN VERHOFF	1964-07-07	NULL	S	F	rob4@learnsector.com	60000	Moderate Income	4	Bachelors	Profession
11009	MR.	SHANNON	CARLSON	SHANNON CARLSON	1964-01-04	NULL	S	M	shannon38@learnsector.com	70000	Moderate Income	0	Bachelors	Profession
11010	MS.	JACQUELYN	SUAREZ	JACQUELYN SUAREZ	1964-06-02	NULL	S	F	jacquelyn20@learnsector.com	70000	Moderate Income	0	Bachelors	Profession
11011	MR.	CURTIS	LU	CURTIS LU	1963-04-11	NULL	M	M	curtis9@learnsector.com	60000	Moderate Income	4	Bachelors	Profession
11012	MRS.	LAUREN	WALKER	LAUREN WALKER	1968-01-18	NULL	M	F	lauren41@learnsector.com	100000	Moderate Income	2	Bachelors	Manageme

Customers 2 | Read Only

```sql
SELECT
    FirstName,
    LastName,
    EmailAddress,
    AnnualIncome
FROM Customers
LIMIT 10;
```



FirstName	LastName	EmailAddress	AnnualIncome
JON	YANG	jon24@learnsector.com	90000
EUGENE	HUANG	eugene10@learnsector.com	60000
RUBEN	TORRES	ruben35@learnsector.com	60000
CHRISTY	ZHU	christy12@learnsector.com	NULL
ELIZABETH	JOHNSON	elizabeth5@learnsector.com	80000
JULIO	RUIZ	julio1@learnsector.com	70000
MARCO	MEHTA	marco14@learnsector.com	60000
ROBIN	VERHOFF	rob4@learnsector.com	60000
SHANNON	CARLSON	shannon38@learnsector.com	70000
JACQUELYN	SUAREZ	jacquelyn20@learnsector.com	70000

```
    -> SELECT
    ->  FirstName,
    ->     LastName,
    ->     EmailAddress,
    ->     AnnualIncome
    -> FROM Customers
    -> LIMIT 10;
+-----------+----------+-----------------------------+--------------+
| FirstName | LastName | EmailAddress                | AnnualIncome |
+-----------+----------+-----------------------------+--------------+
| JON       | YANG     | jon24@learnsector.com       |        90000 |
| EUGENE    | HUANG    | eugene10@learnsector.com    |        60000 |
| RUBEN     | TORRES   | ruben35@learnsector.com     |        60000 |
| CHRISTY   | ZHU      | christy12@learnsector.com   |         NULL |
| ELIZABETH | JOHNSON  | elizabeth5@learnsector.com  |        80000 |
| JULIO     | RUIZ     | julio1@learnsector.com      |        70000 |
| MARCO     | MEHTA    | marco14@learnsector.com     |        60000 |
| ROBIN     | VERHOFF  | rob4@learnsector.com        |        60000 |
| SHANNON   | CARLSON  | shannon38@learnsector.com   |        70000 |
| JACQUELYN | SUAREZ   | jacquelyn20@learnsector.com |        70000 |
+-----------+----------+-----------------------------+--------------+
10 rows in set (0.00 sec)
```

```
mysql> SELECT * FROM
    -> territories;
+-------------------+---------------+----------------+---------------+
| SalesTerritoryKey | Region        | Country        | Continent     |
+-------------------+---------------+----------------+---------------+
|                 1 | Northwest     | United States  | North America |
|                 2 | Northeast     | United States  | North America |
|                 3 | Central       | United States  | North America |
|                 4 | Southwest     | United States  | North America |
|                 5 | Southeast     | United States  | North America |
|                 6 | Canada        | Canada         | North America |
|                 7 | France        | France         | Europe        |
|                 8 | Germany       | Germany        | Europe        |
|                 9 | Australia     | Australia      | Pacific       |
|                10 | United Kingdom | United Kingdom | Europe        |
+-------------------+---------------+----------------+---------------+
10 rows in set (0.06 sec)
```