# MySQL 스프링 게시판

## MySQL 사용한 게시판 만들기

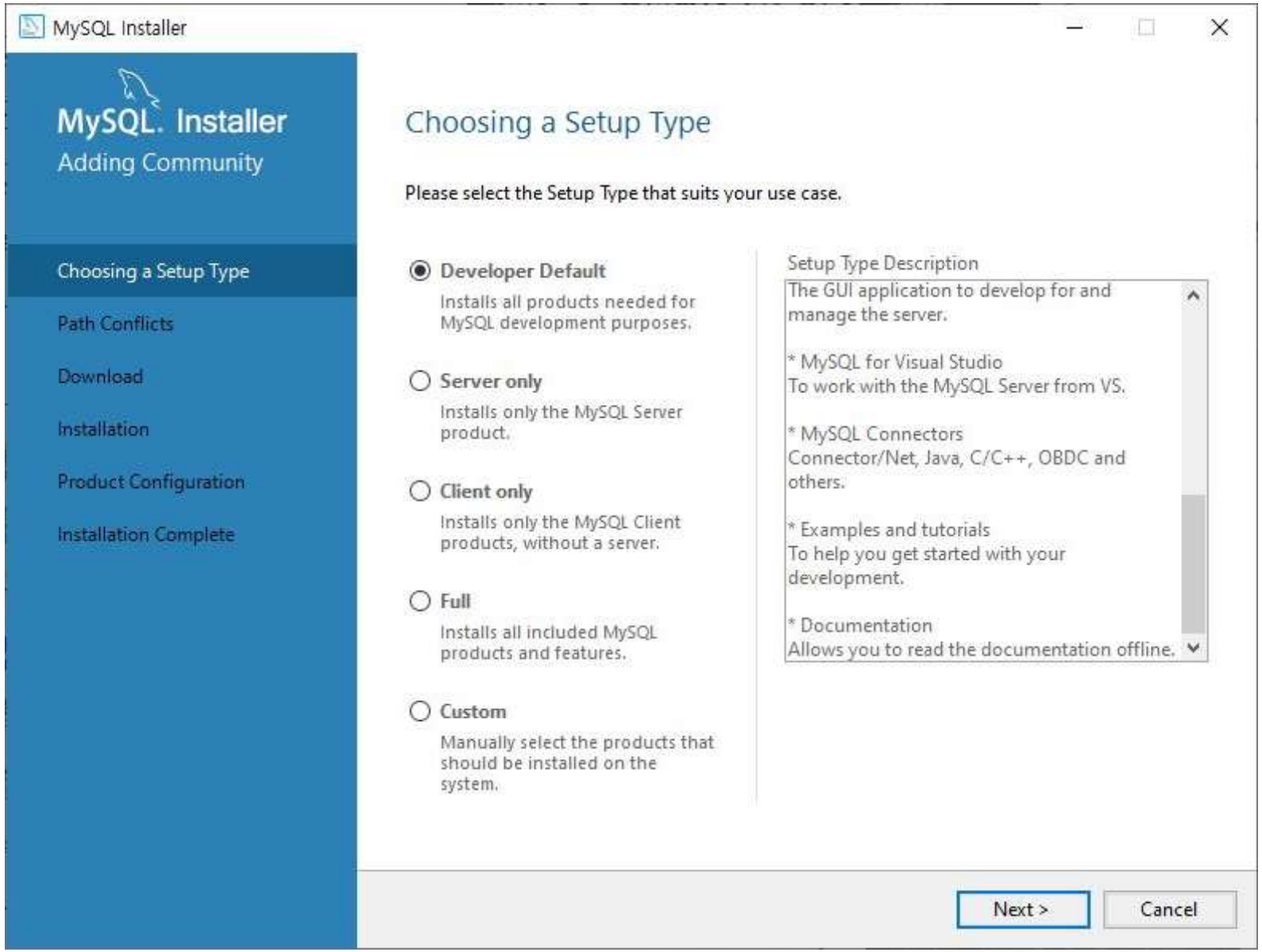
# MySQL 설치

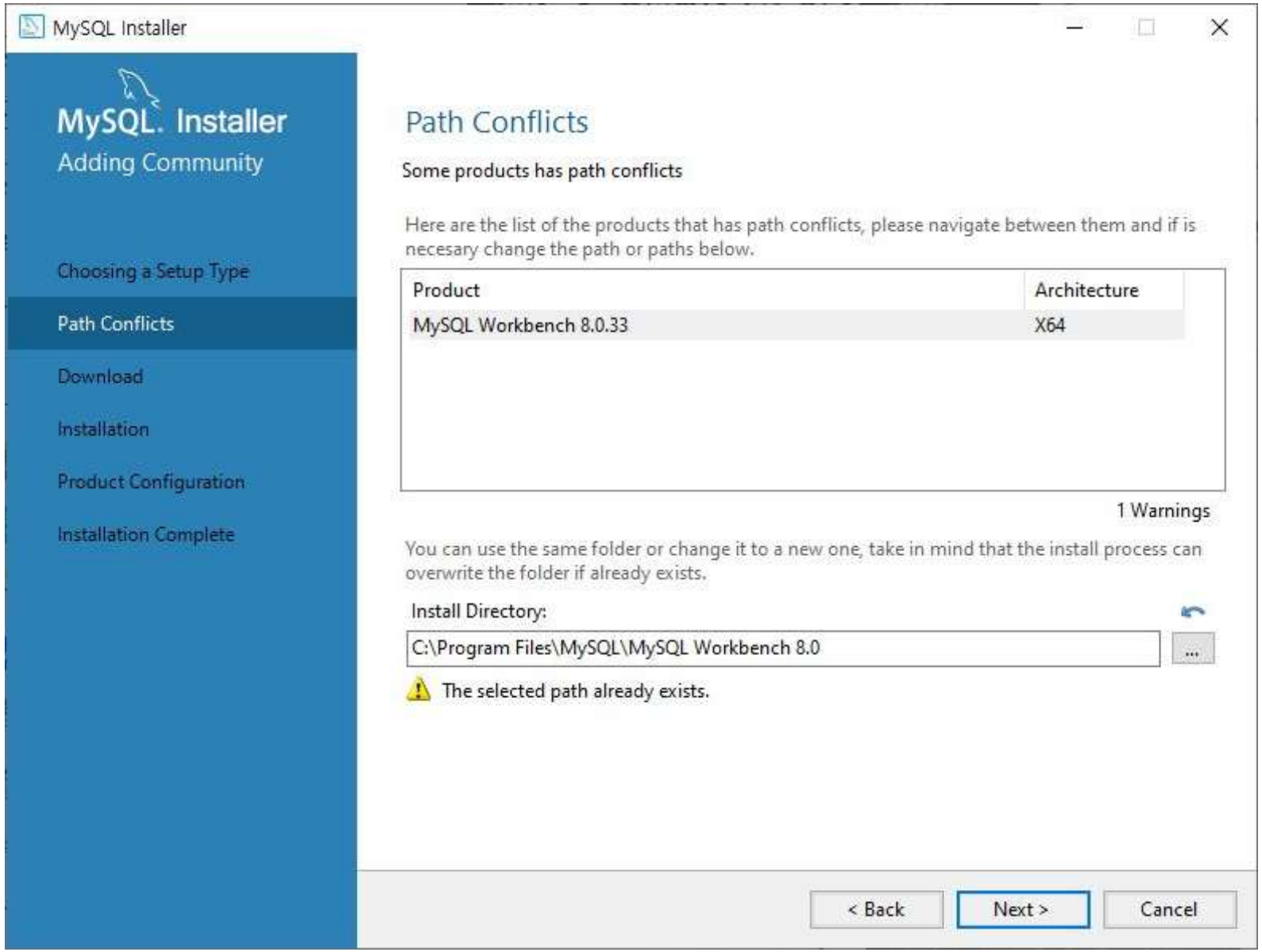
설치 5.7

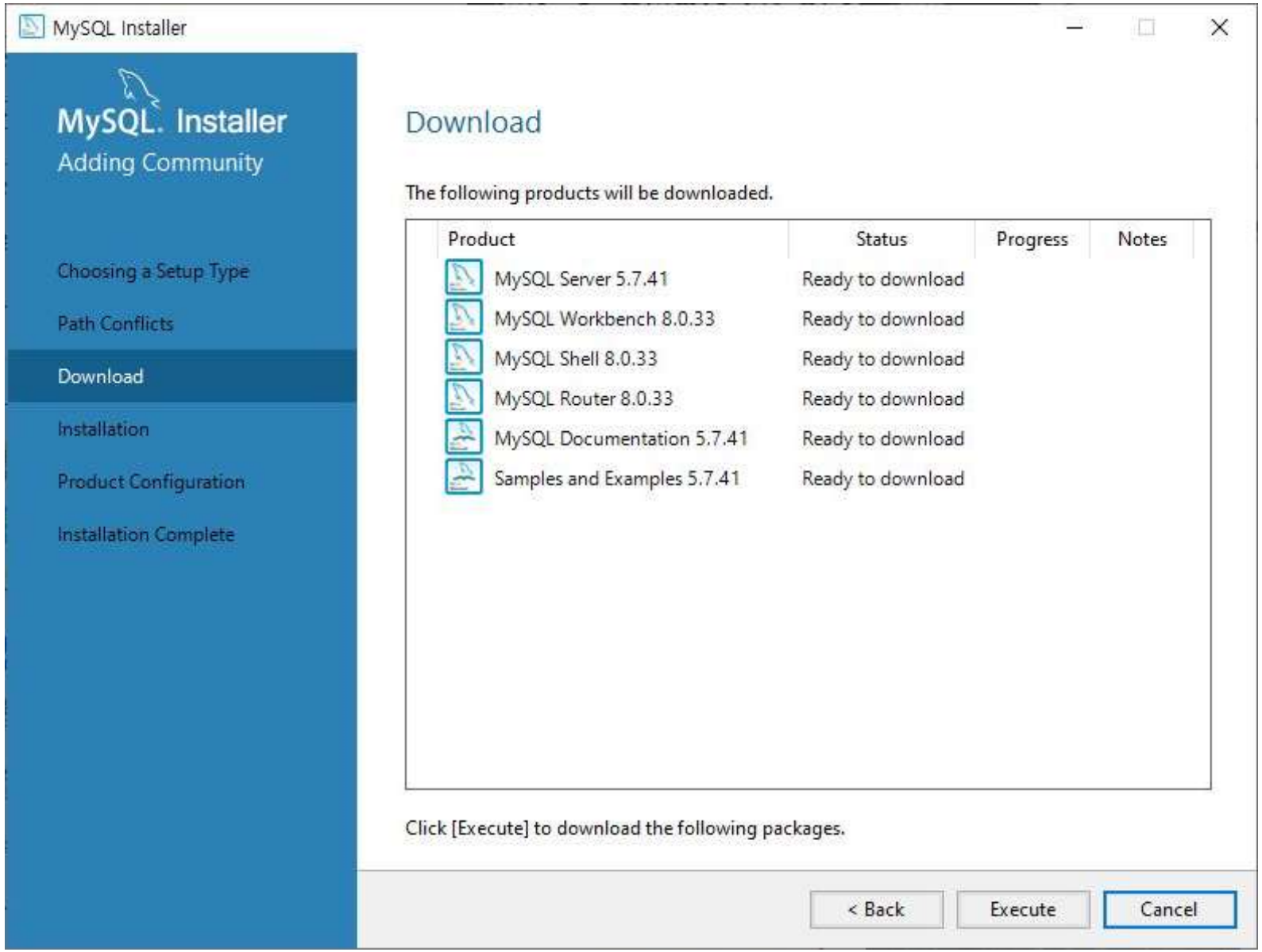
mysql.com >> downloads >> MySQL Community (GPL) Downloads >>

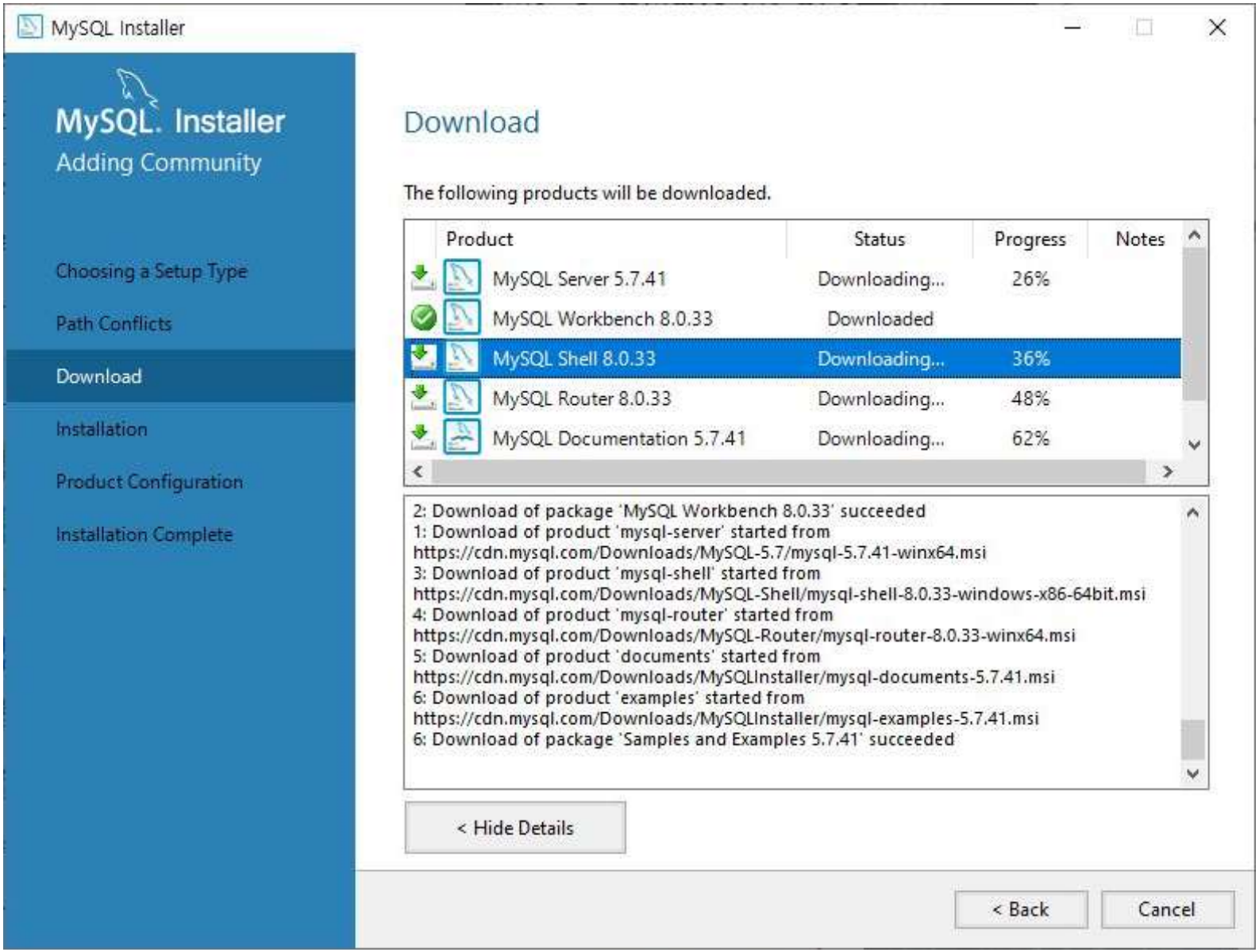
MySQL Installer for Windows >> Archives >> 5.7.X >> Download

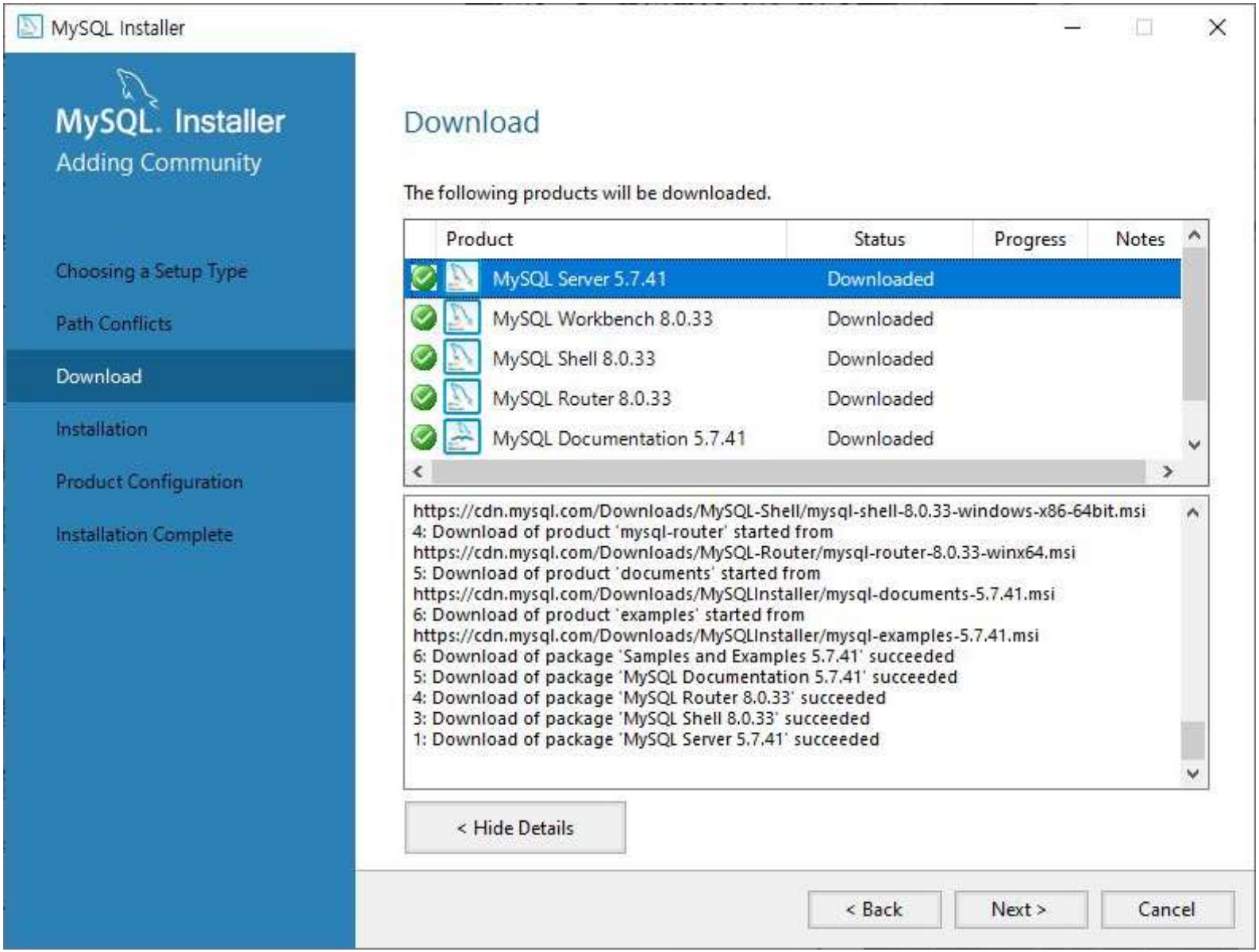
실행 >> Developer Default


MySQL Installer
MySQL. Installer
Adding Community
Choosing a Setup Type
Path Conflicts
Download
Installation
Product Configuration
Installation Complete
Choosing a Setup Type
Please select the Setup Type that suits your use case.
Developer Default
Installs all products needed for MySQL development purposes.
Server only
Installs only the MySQL Server product.
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.
Setup Type Description
The GUI application to develop for and manage the server.
* MySQL for Visual Studio
To work with the MySQL Server from VS.
* MySQL Connectors
Connector/Net, Java, C/C++, OBDC and others.
* Examples and tutorials
To help you get started with your development.
* Documentation
Allows you to read the documentation offline.
Next >
Cancel


MySQL Installer
MySQL. Installer
Adding Community
Choosing a Setup Type
Path Conflicts
Download
Installation
Product Configuration
Installation Complete
Path Conflicts
Some products has path conflicts
Here are the list of the products that has path conflicts, please navigate between them and if is necesary change the path or paths below.
Product
Architecture
MySQL Workbench 8.0.33
X64
1 Warnings
You can use the same folder or change it to a new one, take in mind that the install process can overwrite the folder if already exists.
Install Directory:
C:\Program Files\MySQL\MySQL Workbench 8.0
...
The selected path already exists.
< Back
Next >
Cancel


MySQL Installer
MySQL. Installer
Adding Community
Choosing a Setup Type
Path Conflicts
Download
Installation
Product Configuration
Installation Complete
Download
The following products will be downloaded.
Product
Status
Progress
Notes
MySQL Server 5.7.41
Ready to download
MySQL Workbench 8.0.33
Ready to download
MySQL Shell 8.0.33
Ready to download
MySQL Router 8.0.33
Ready to download
MySQL Documentation 5.7.41
Ready to download
Samples and Examples 5.7.41
Ready to download
Click [Execute] to download the following packages.
< Back
Execute
Cancel


MySQL Installer
MySQL. Installer
Adding Community
Choosing a Setup Type
Path Conflicts
Download
Installation
Product Configuration
Installation Complete
Download
The following products will be downloaded.
Product
Status
Progress
Notes
MySQL Server 5.7.41
Downloading...
26%
MySQL Workbench 8.0.33
Downloaded
MySQL Shell 8.0.33
Downloading...
36%
MySQL Router 8.0.33
Downloading...
48%
MySQL Documentation 5.7.41
Downloading...
62%
2: Download of package 'MySQL Workbench 8.0.33' succeeded
1: Download of product 'mysql-server' started from
https://cdn.mysql.com/Downloads/MySQL-5.7/mysql-5.7.41-winx64.msi
3: Download of product 'mysql-shell' started from
https://cdn.mysql.com/Downloads/MySQL-Shell/mysql-shell-8.0.33-windows-x86-64bit.msi
4: Download of product 'mysql-router' started from
https://cdn.mysql.com/Downloads/MySQL-Router/mysql-router-8.0.33-winx64.msi
5: Download of product 'documents' started from
https://cdn.mysql.com/Downloads/MySQLInstaller/mysql-documents-5.7.41.msi
6: Download of product 'examples' started from
https://cdn.mysql.com/Downloads/MySQLInstaller/mysql-examples-5.7.41.msi
6: Download of package 'Samples and Examples 5.7.41' succeeded
< Hide Details
< Back
Cancel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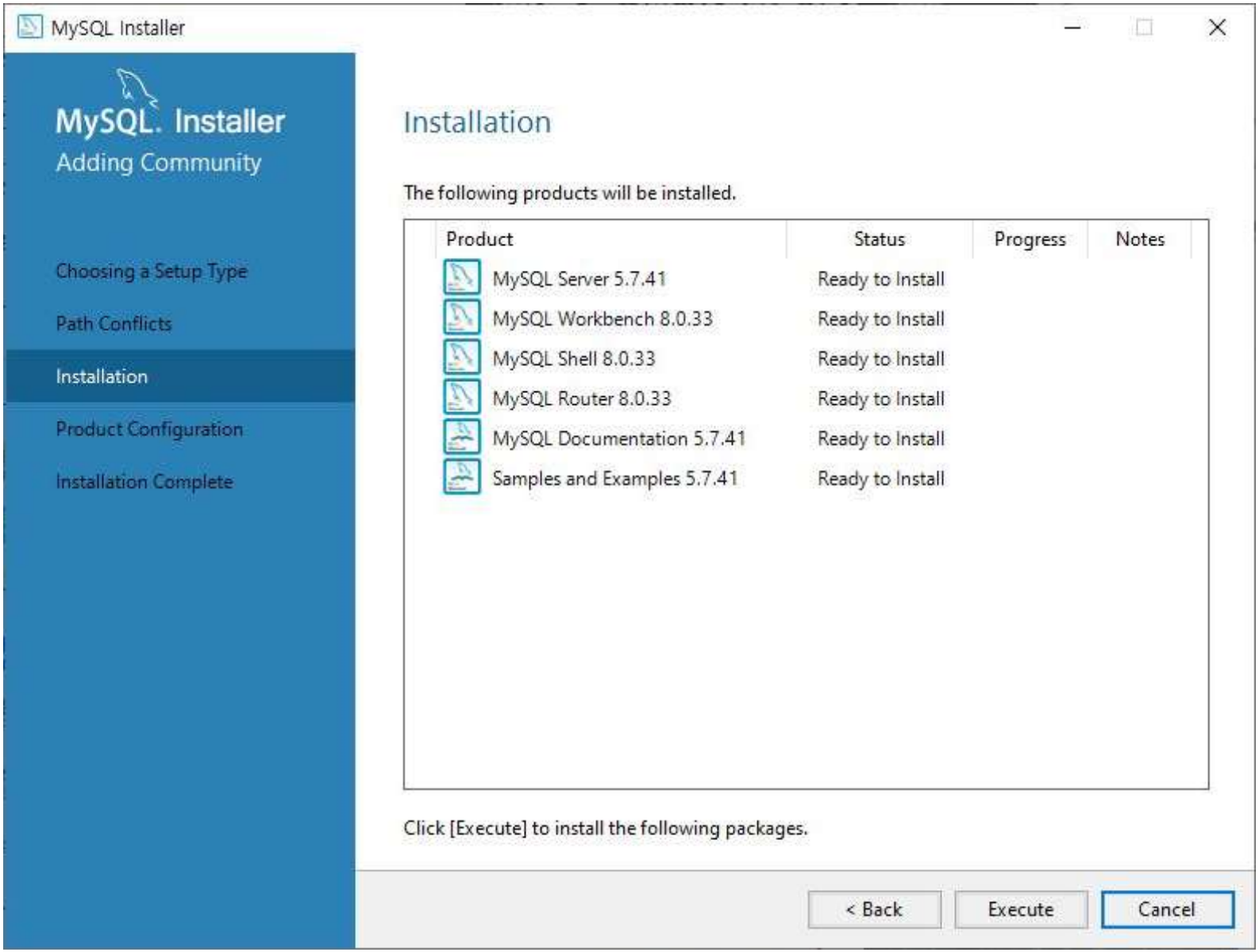
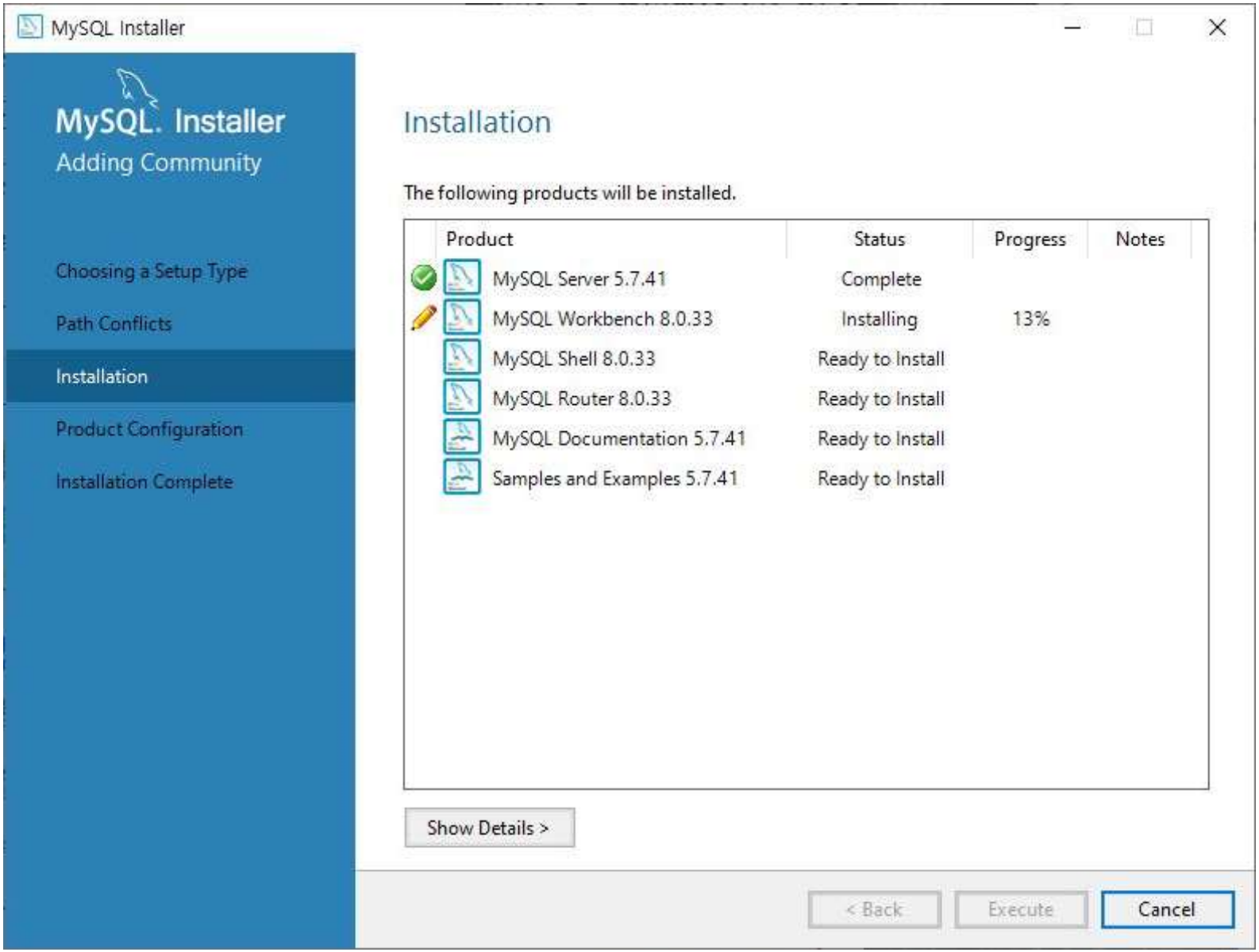
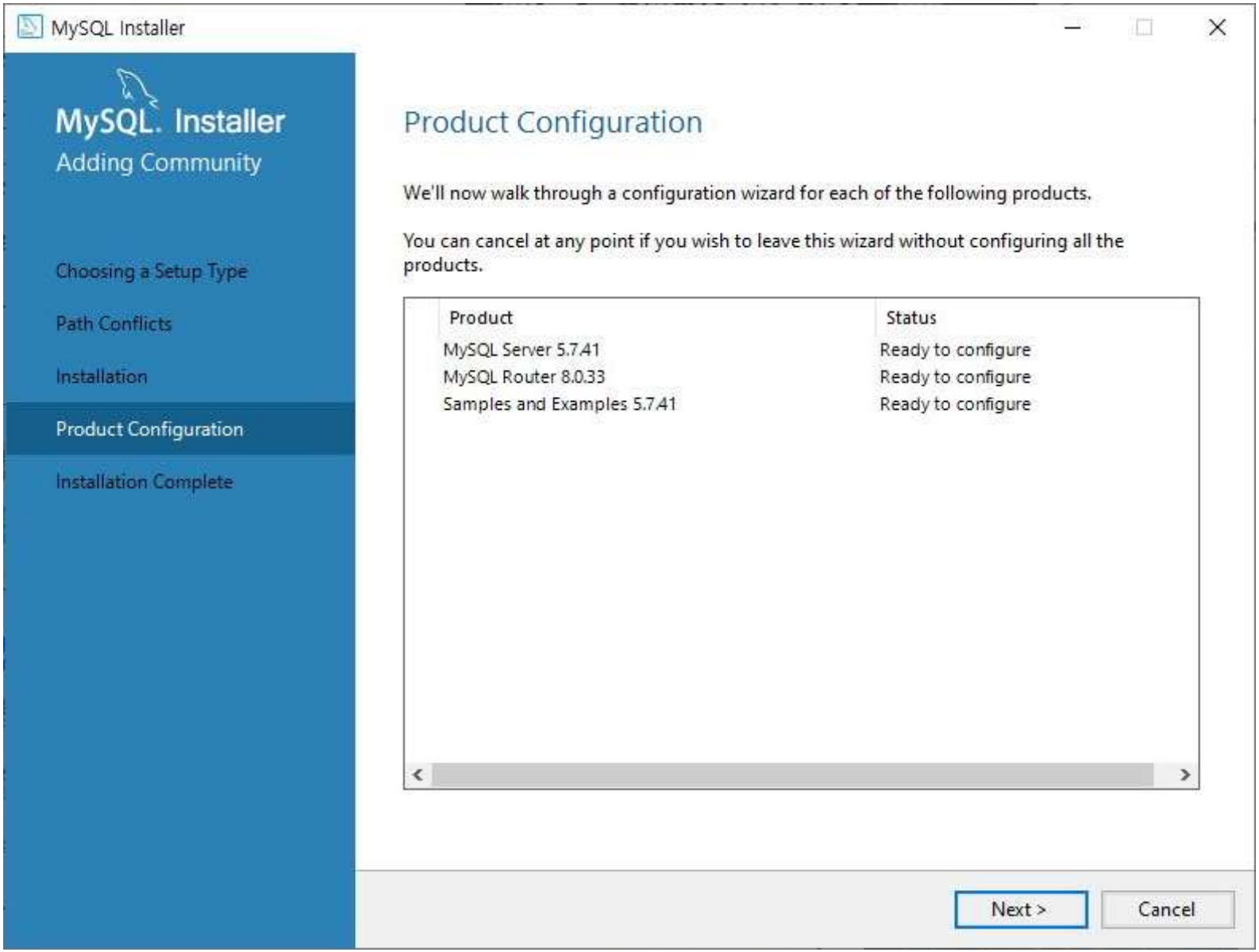
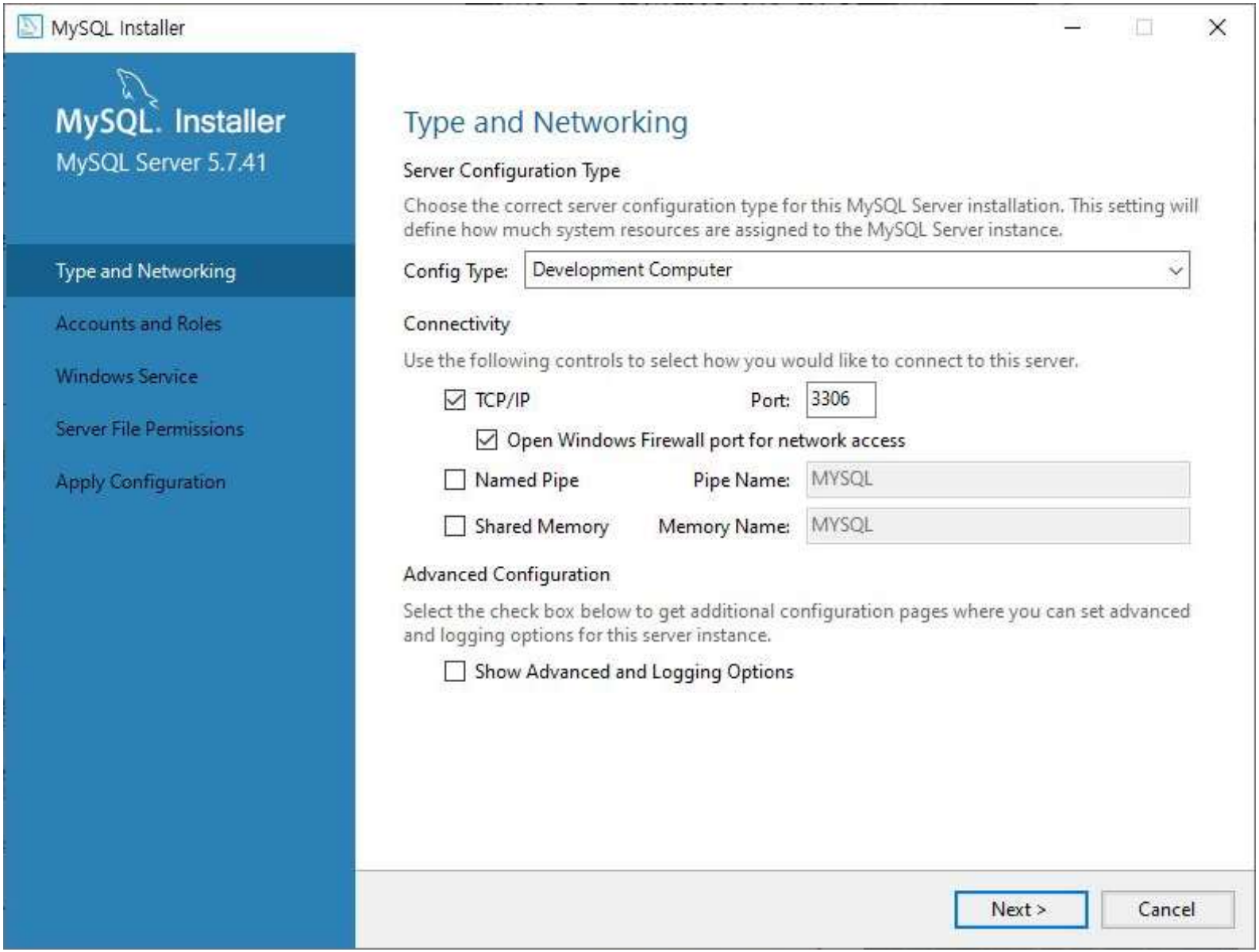
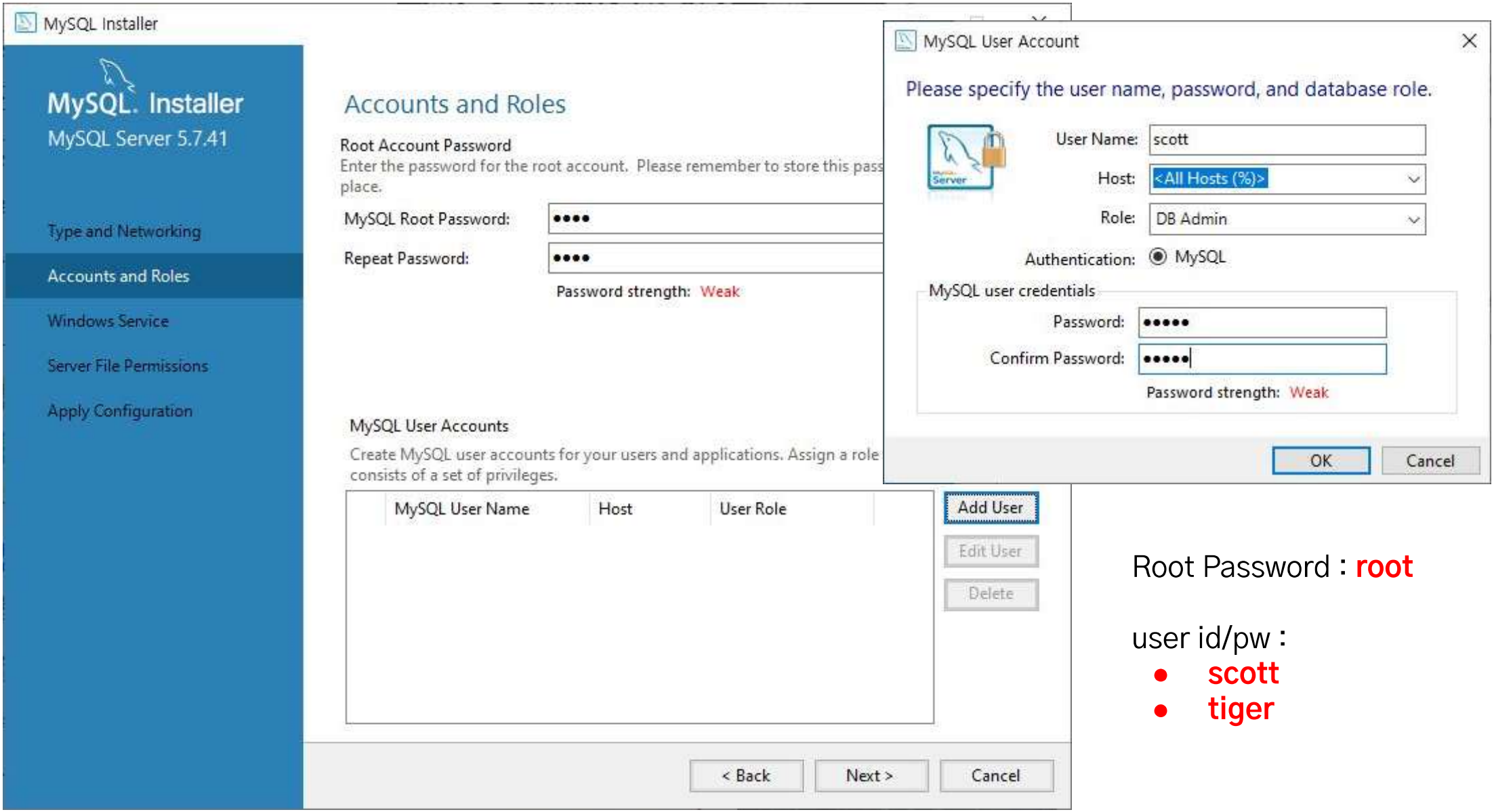
MySQL Workbench 8.0.33
Downloaded
MySQL Shell 8.0.33
Downloaded
MySQL Router 8.0.33
Downloaded
MySQL Documentation 5.7.41
Downloaded
https://cdn.mysql.com/Downloads/MySQL-Shell/mysql-shell-8.0.33-windows-x86-64bit.msi
4: Download of product 'mysql-router' started from
https://cdn.mysql.com/Downloads/MySQL-Router/mysql-router-8.0.33-winx64.msi
5: Download of product 'documents' started from
https://cdn.mysql.com/Downloads/MySQLInstaller/mysql-documents-5.7.41.msi
6: Download of product 'examples' started from
https://cdn.mysql.com/Downloads/MySQLInstaller/mysql-examples-5.7.41.msi
6: Download of package 'Samples and Examples 5.7.41' succeeded
5: Download of package 'MySQL Documentation 5.7.41' succeeded
4: Download of package 'MySQL Router 8.0.33' succeeded
3: Download of package 'MySQL Shell 8.0.33' succeeded
1: Download of package 'MySQL Server 5.7.41' succeeded
< Hide Details
< Back
Next >
Cancel


MySQL Installer
MySQL. Installer
Adding Community
Choosing a Setup Type
Path Conflicts
Installation
Product Configuration
Installation Complete
Installation
The following products will be installed.
Product
Status
Progress
Notes
MySQL Server 5.7.41
Ready to Install
MySQL Workbench 8.0.33
Ready to Install
MySQL Shell 8.0.33
Ready to Install
MySQL Router 8.0.33
Ready to Install
MySQL Documentation 5.7.41
Ready to Install
Samples and Examples 5.7.41
Ready to Install
Click [Execute] to install the following packages.
< Back
Execute
Cancel


MySQL Installer
MySQL. Installer
Adding Community
Choosing a Setup Type
Path Conflicts
Installation
Product Configuration
Installation Complete
Installation
The following products will be installed.
Product
Status
Progress
Notes
MySQL Server 5.7.41
Complete
MySQL Workbench 8.0.33
Installing
13%
MySQL Shell 8.0.33
Ready to Install
MySQL Router 8.0.33
Ready to Install
MySQL Documentation 5.7.41
Ready to Install
Samples and Examples 5.7.41
Ready to Install
Show Details >
< Back
Execute
Cancel


MySQL Installer
MySQL. Installer
Adding Community
Choosing a Setup Type
Path Conflicts
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 5.7.41
Ready to configure
MySQL Router 8.0.33
Ready to configure
Samples and Examples 5.7.41
Ready to configure
Next >
Cancel

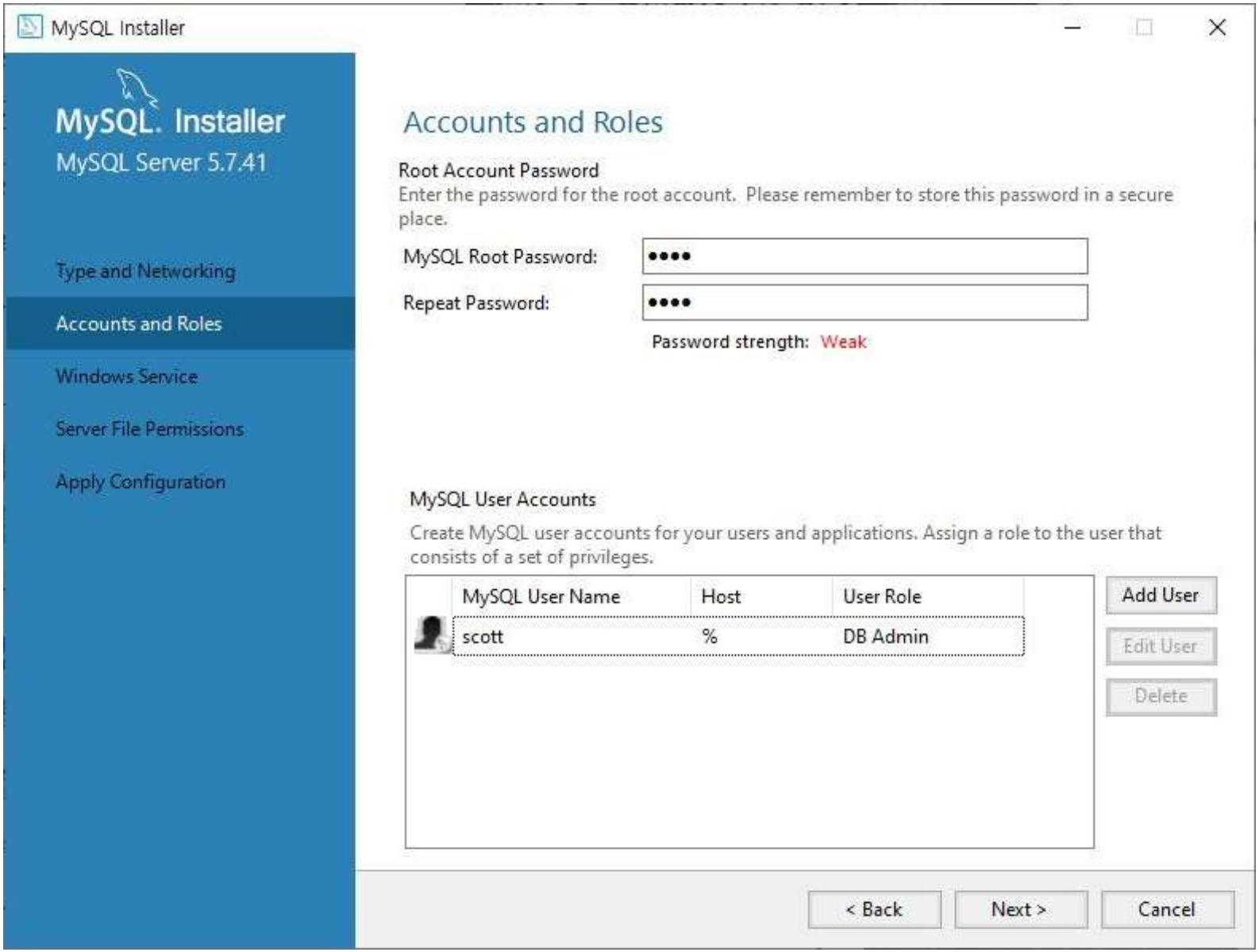

MySQL Installer
MySQL. Installer
MySQL Server 5.7.41
Type and Networking
Accounts and Roles
Windows Service
Server File Permissions
Apply Configuration
Type and Networking
Server Configuration Type
Choose the correct server configuration type for this MySQL Server installation. This setting will define 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
Open Windows Firewall port 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

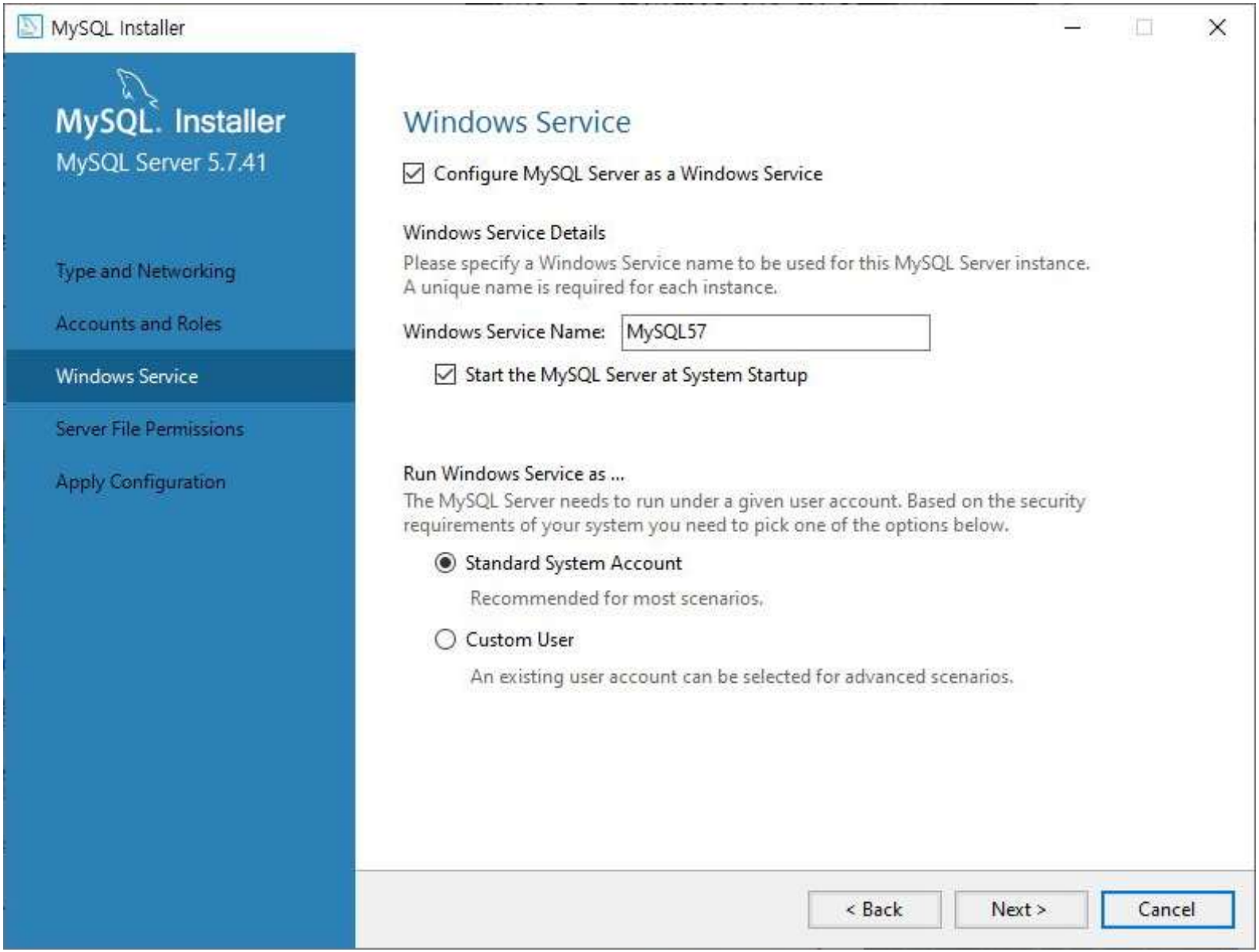


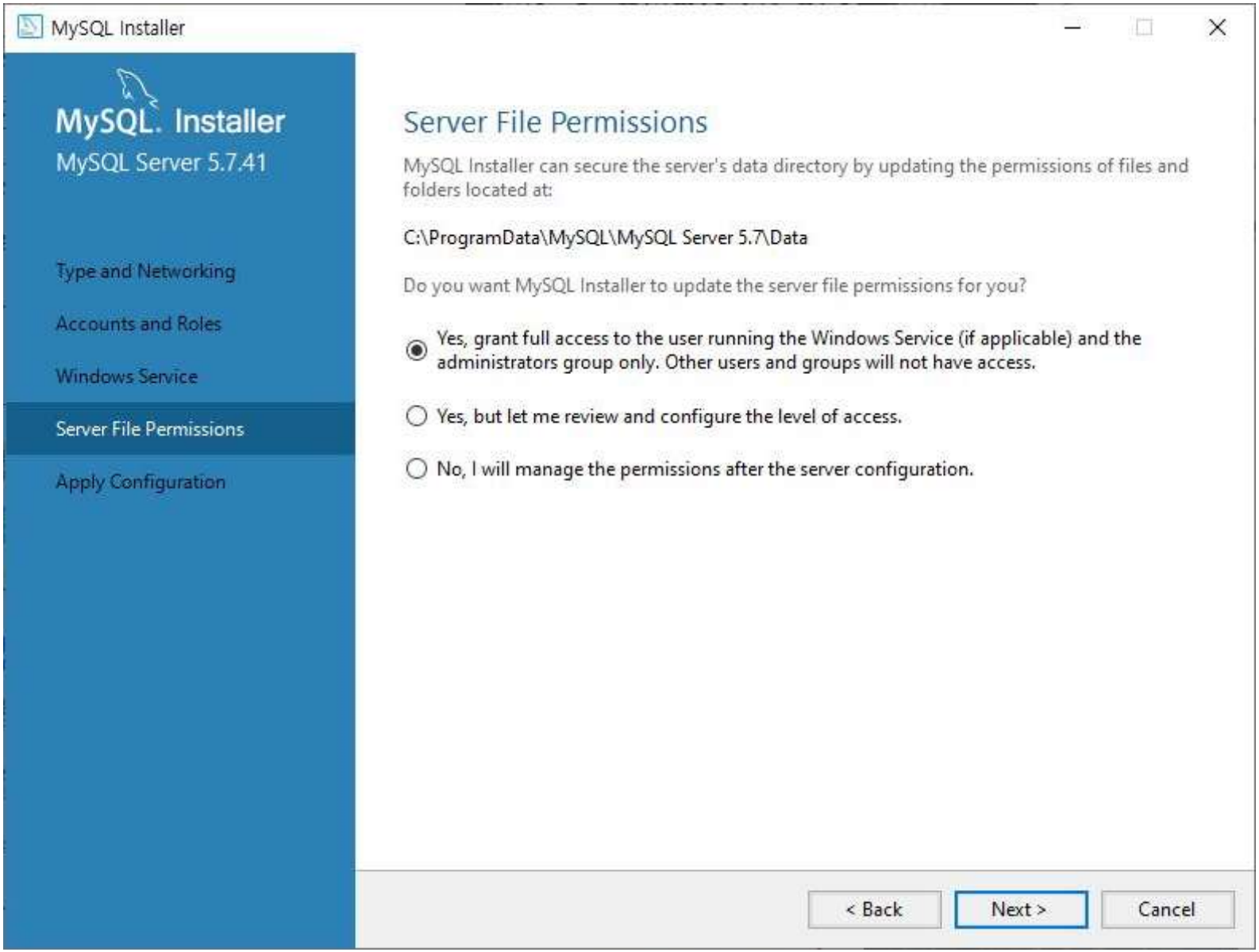

Root Password : **root**

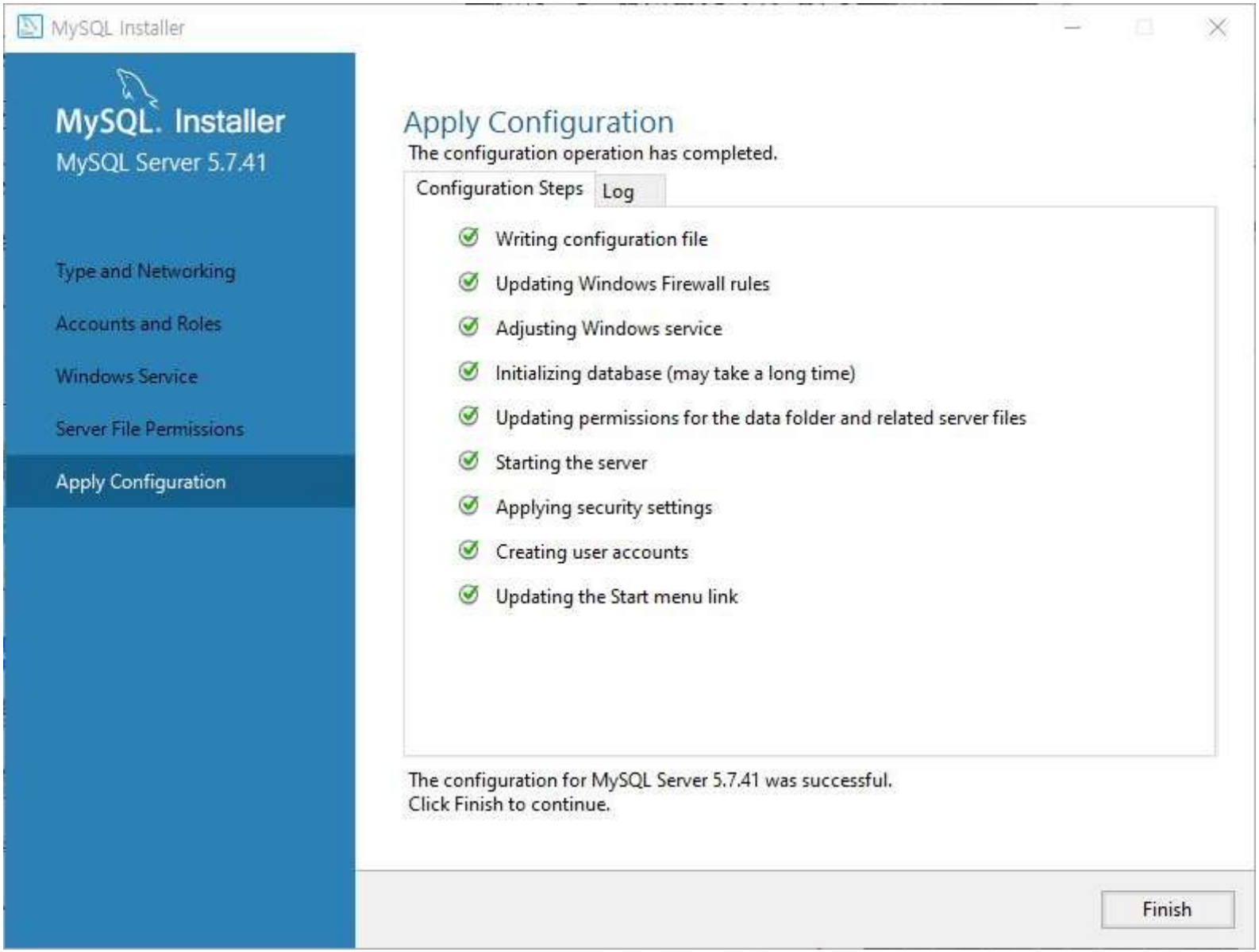
user id/pw :

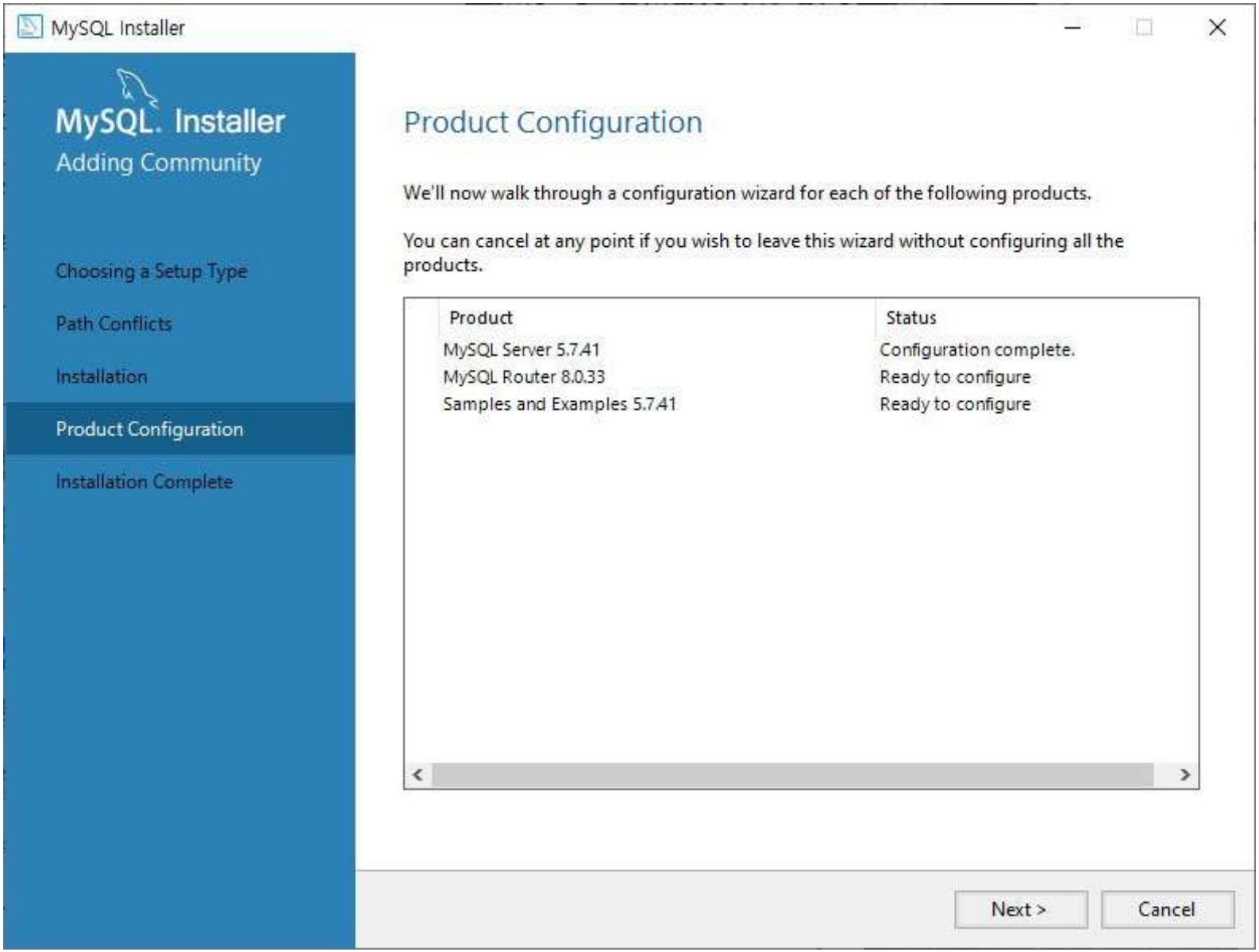
- **scott**
- **tiger**

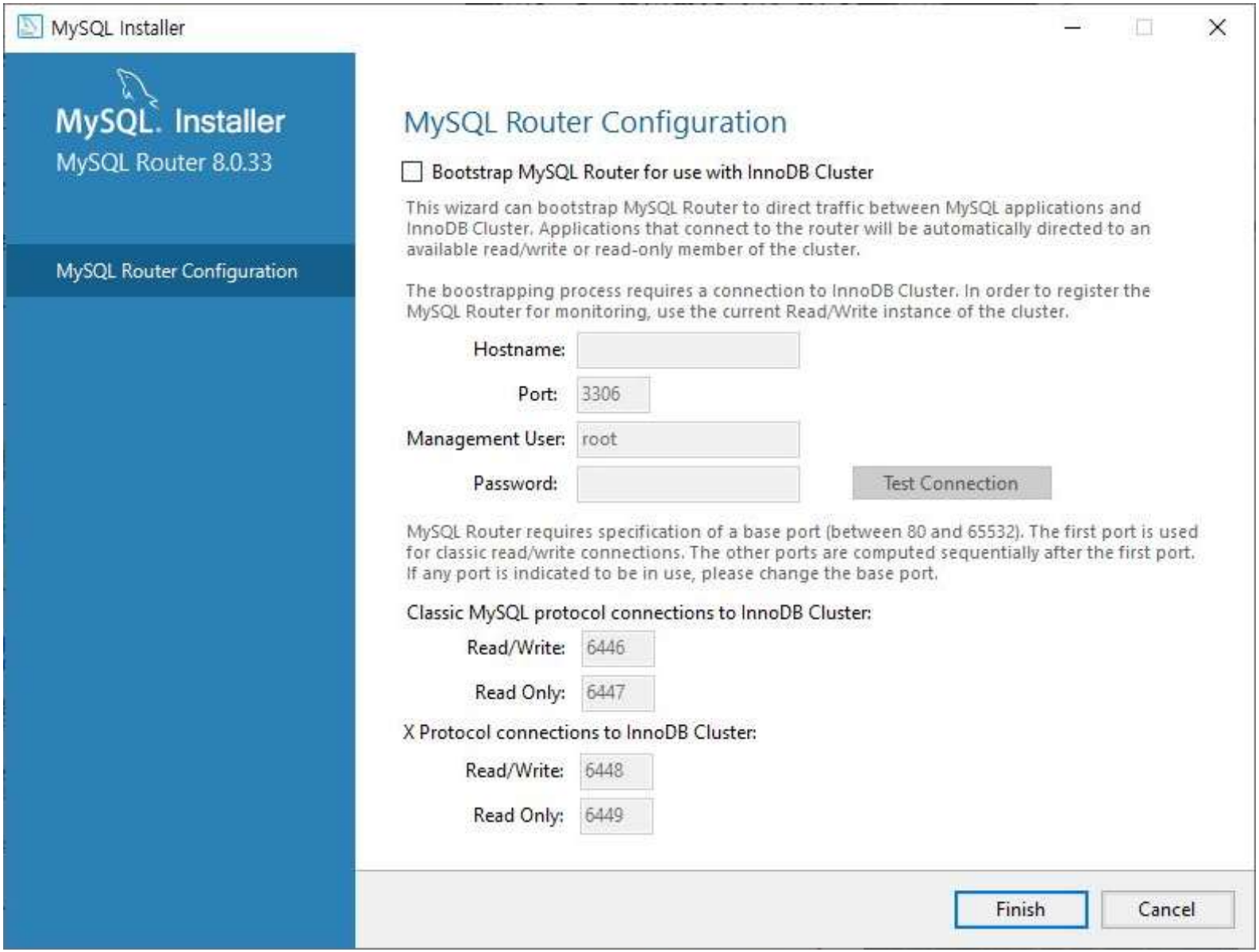

MySQL Installer
MySQL. Installer
MySQL Server 5.7.41
Type and Networking
Accounts and Roles
Windows Service
Server File Permissions
Apply Configuration
Accounts and Roles
Root Account Password
Enter the password for the root account. Please remember to store this password in a secure place.
MySQL Root Password:
Repeat Password:
Password strength: Weak
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
scott
%
DB Admin
Add User
Edit User
Delete
< Back
Next >
Cancel

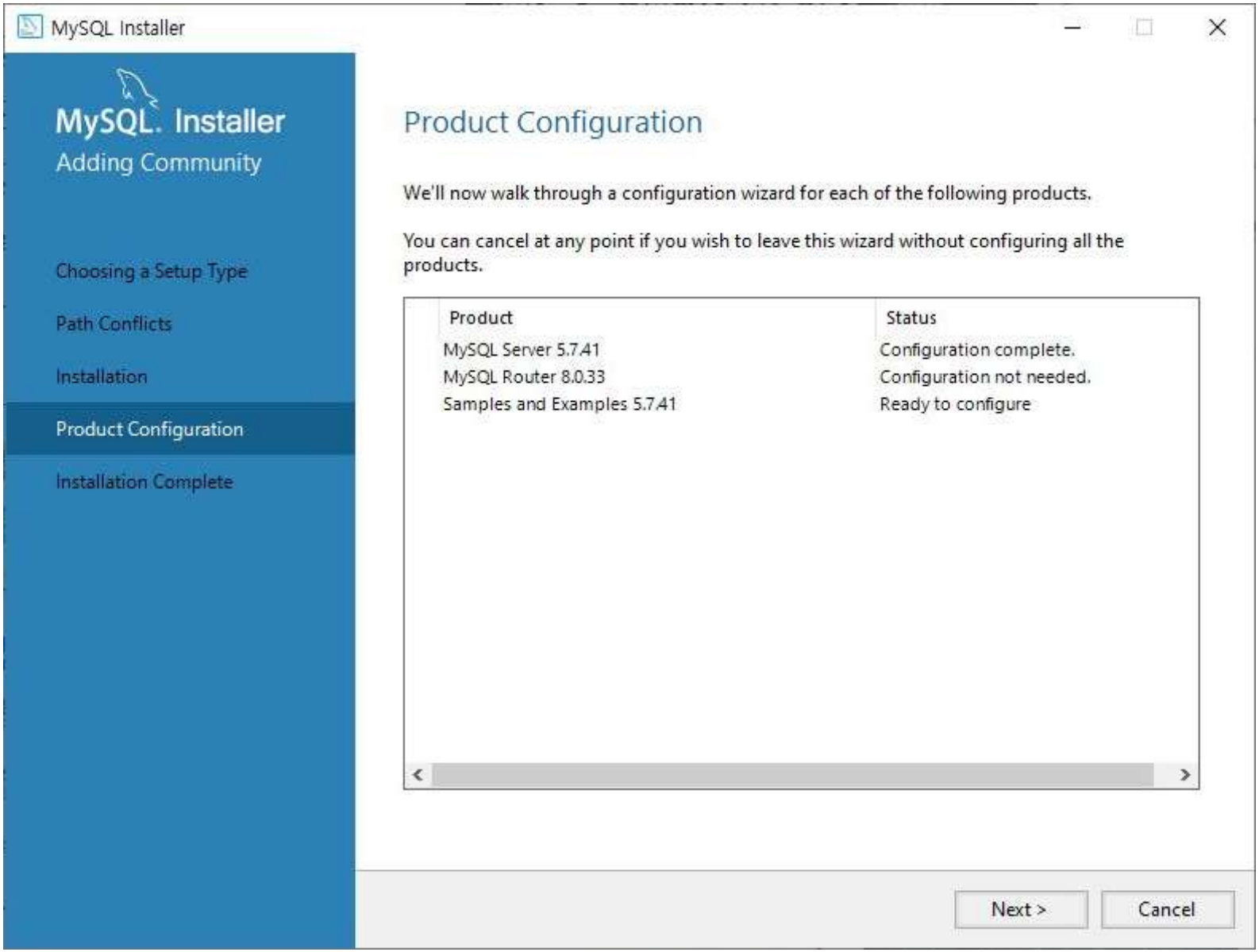

MySQL Installer
MySQL. Installer
MySQL Server 5.7.41
Type and Networking
Accounts and Roles
Windows Service
Server File Permissions
Apply Configuration
Windows Service
Configure MySQL Server as a Windows Service
Windows Service Details
Please specify a Windows Service name to be used for this MySQL Server instance.
A unique name is required for each instance.
Windows Service Name:
MySQL57
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

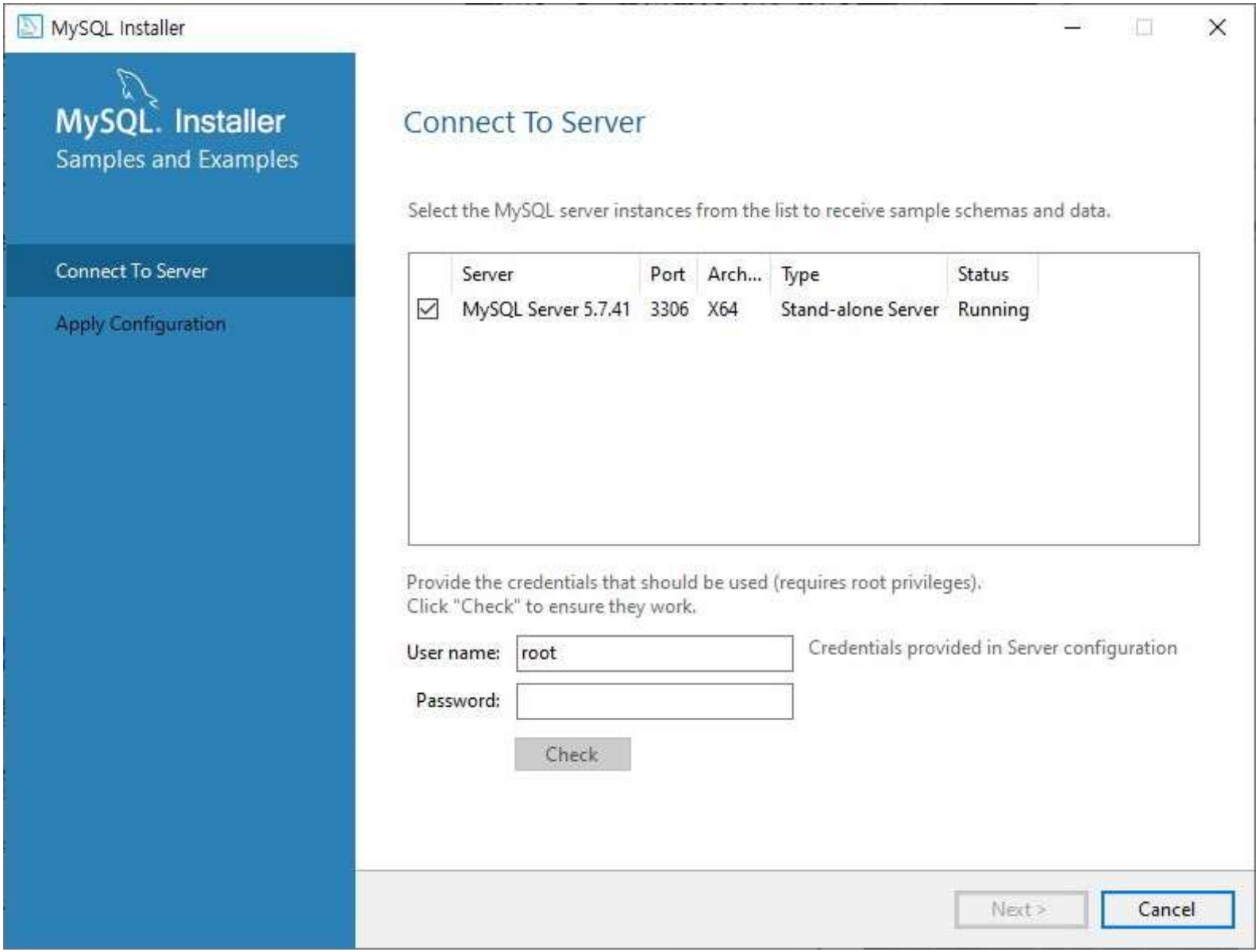

MySQL Installer
MySQL. Installer
MySQL Server 5.7.41
Type and Networking
Accounts and Roles
Windows Service
Server File Permissions
Apply Configuration
Server File Permissions
MySQL Installer can secure the server's data directory by updating the permissions of files and folders located at:
C:\ProgramData\MySQL\MySQL Server 5.7\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

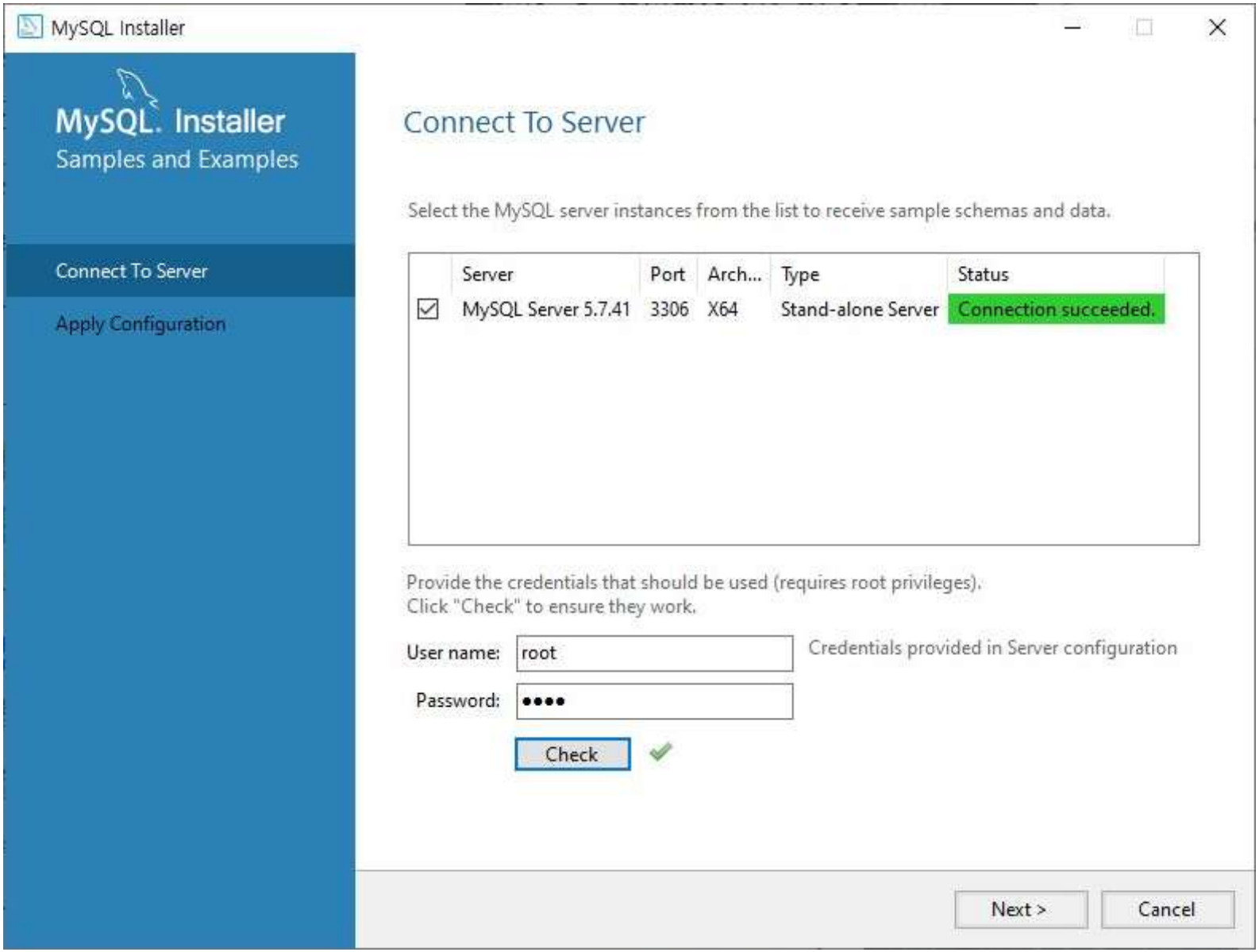

MySQL Installer
MySQL. Installer
MySQL Server 5.7.41
Type and Networking
Accounts and Roles
Windows Service
Server File Permissions
Apply Configuration
Apply Configuration
The configuration operation has completed.
Configuration Steps
Log
Writing configuration file
Updating Windows Firewall rules
Adjusting 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
Creating user accounts
Updating the Start menu link
The configuration for MySQL Server 5.7.41 was successful.
Click Finish to continue.
Finish

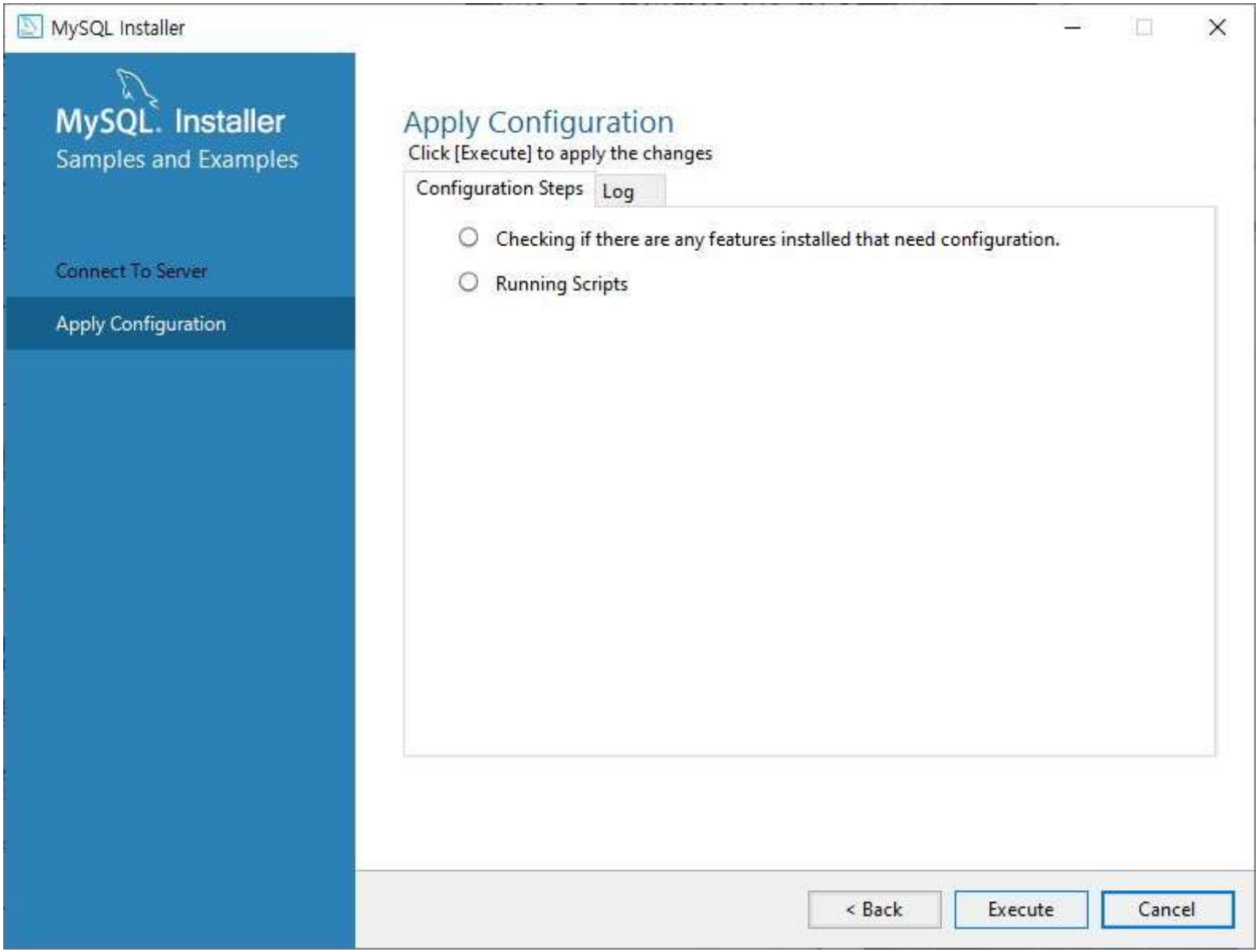

MySQL Installer
MySQL. Installer
Adding Community
Choosing a Setup Type
Path Conflicts
Installation
Product Configuration
Installation Complete
Product Configuration
We'll now walk through a configuration wizard for each of the following products.
You can cancel at any point if you wish to leave this wizard without configuring all the products.
Product
Status
MySQL Server 5.7.41
Configuration complete.
MySQL Router 8.0.33
Ready to configure
Samples and Examples 5.7.41
Ready to configure
Next >
Cancel

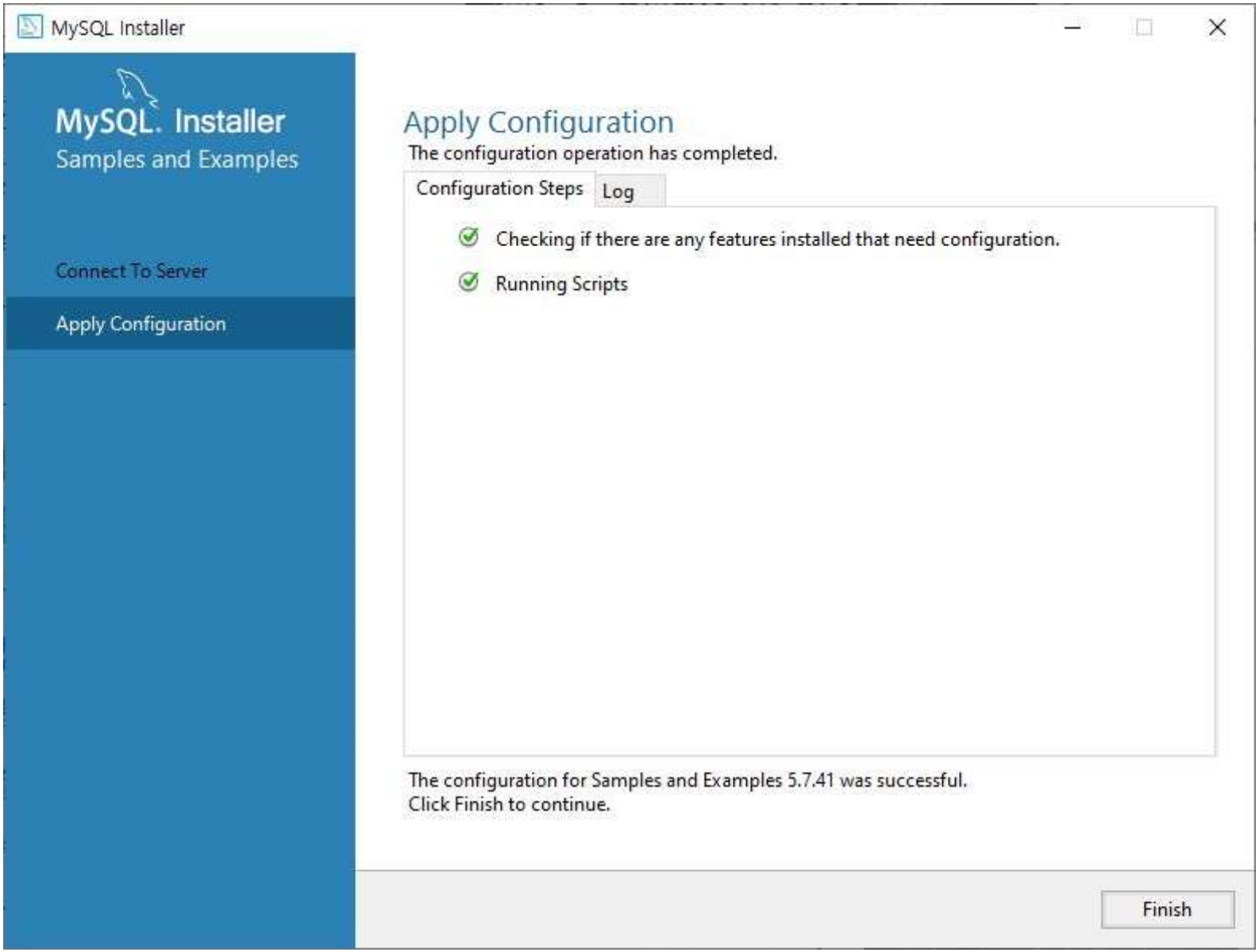

MySQL Installer
MySQL. Installer
MySQL Router 8.0.33
MySQL Router Configuration
MySQL Router Configuration
Bootstrap MySQL Router for use with InnoDB Cluster
This wizard can bootstrap MySQL Router to direct traffic between MySQL applications and InnoDB Cluster. Applications that connect to the router 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

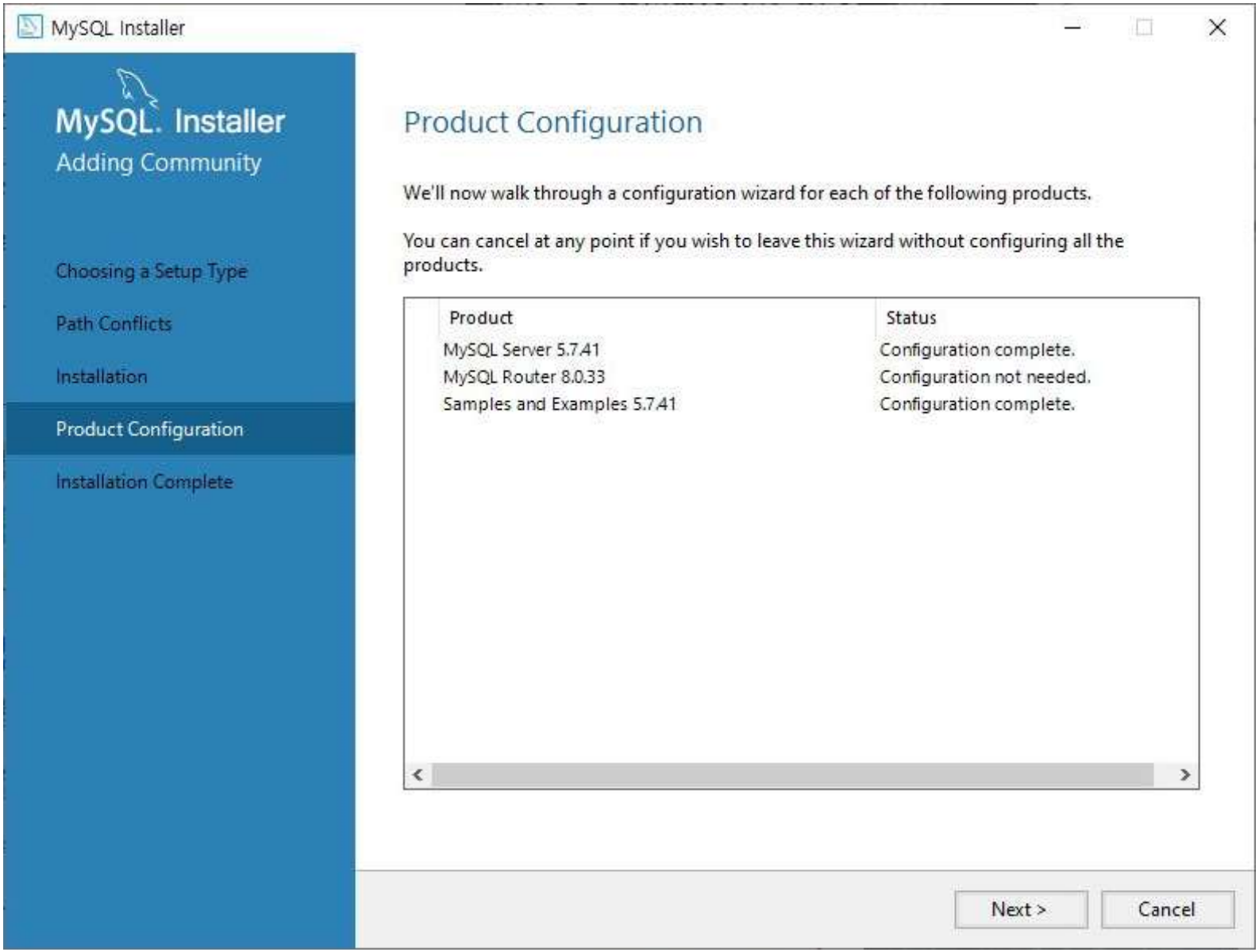

MySQL Installer
MySQL. Installer
Adding Community
Choosing a Setup Type
Path Conflicts
Installation
Product Configuration
Installation Complete
Product Configuration
We'll now walk through a configuration wizard for each of the following products.
You can cancel at any point if you wish to leave this wizard without configuring all the products.
Product
Status
MySQL Server 5.7.41
Configuration complete.
MySQL Router 8.0.33
Configuration not needed.
Samples and Examples 5.7.41
Ready to configure
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 5.7.41
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
Credentials provided in Server configuration
Password:
Check
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 5.7.41
3306
X64
Stand-alone Server
Connection succeeded.
Provide the credentials that should be used (requires root privileges).
Click "Check" to ensure they work.
User name:
root
Credentials provided in Server configuration
Password:
Check
Next >
Cancel


MySQL Installer
MySQL. Installer
Samples and Examples
Connect To Server
Apply Configuration
Apply Configuration
Click [Execute] to apply the changes
Configuration Steps
Log
Checking if there are any features installed that need configuration.
Running Scripts
< Back
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 5.7.41 was successful.
Click Finish to continue.
Finish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Product Configuration
Installation Complete
Product Configuration
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Product
Status
MySQL Server 5.7.41
Configuration complete.
MySQL Router 8.0.33
Configuration not needed.
Samples and Examples 5.7.41
Configuration complete.
Next >
Cancel

MySQL Installer

MySQL. Installer
Adding Community

- Choosing a Setup Type
- Path Conflicts
- Installation
- Product Configuration
- Installation Complete

# Installation Complete

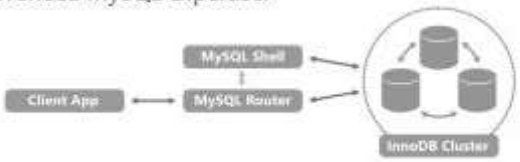
The installation procedure has been completed.

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

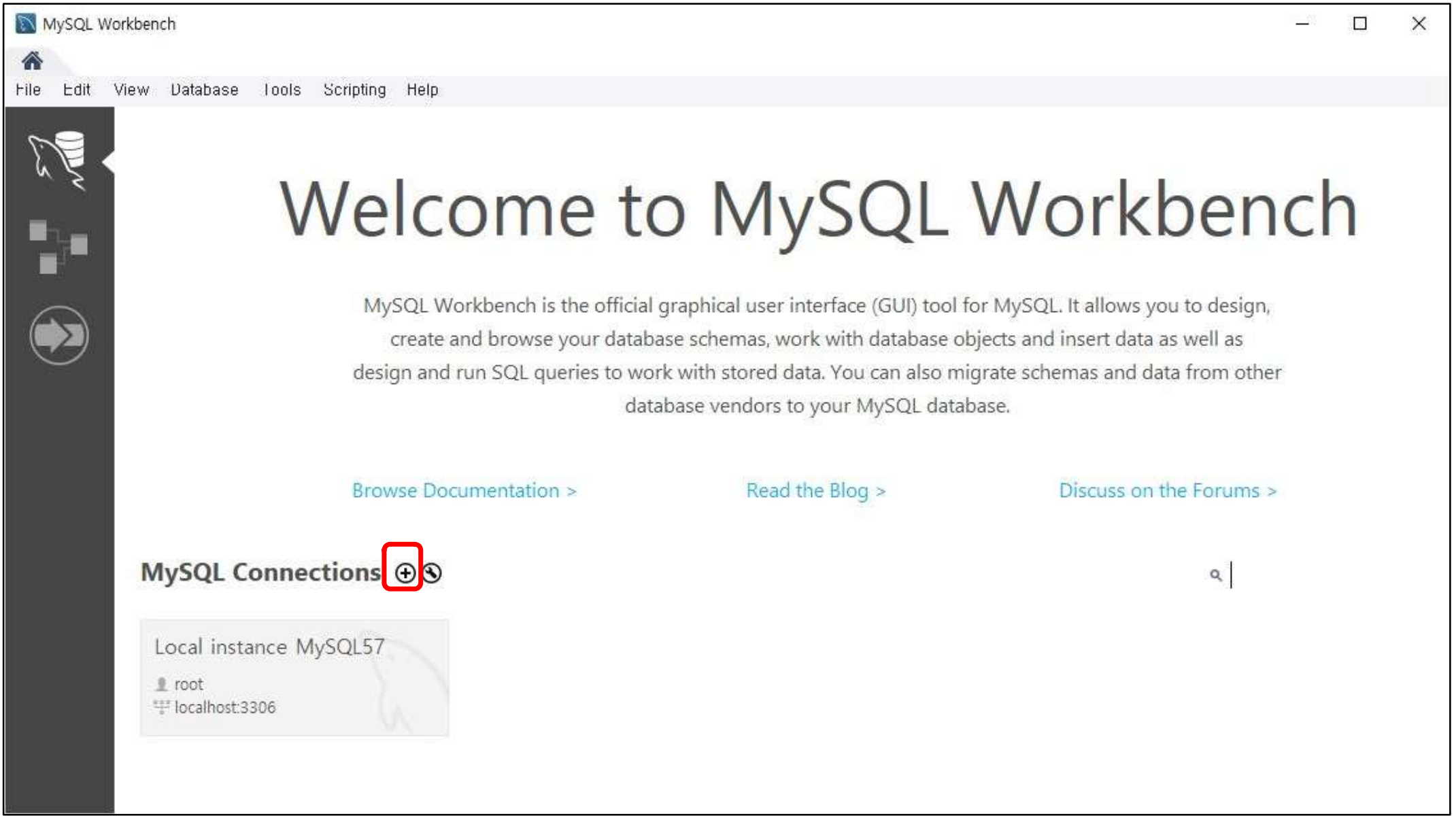
The All New MySQL InnoDB ReplicaSet Blog

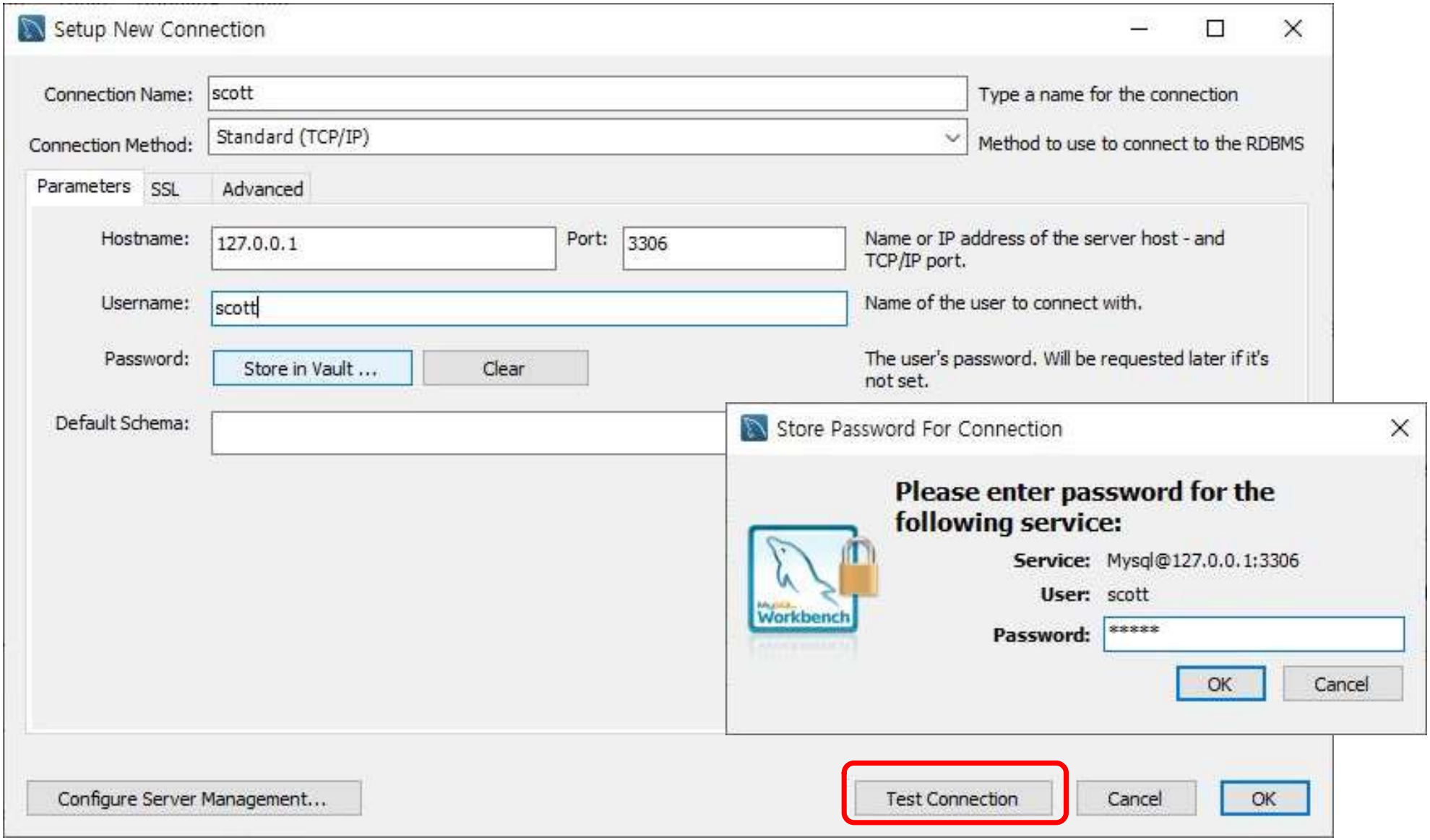
Changing Cluster Options Live Blog

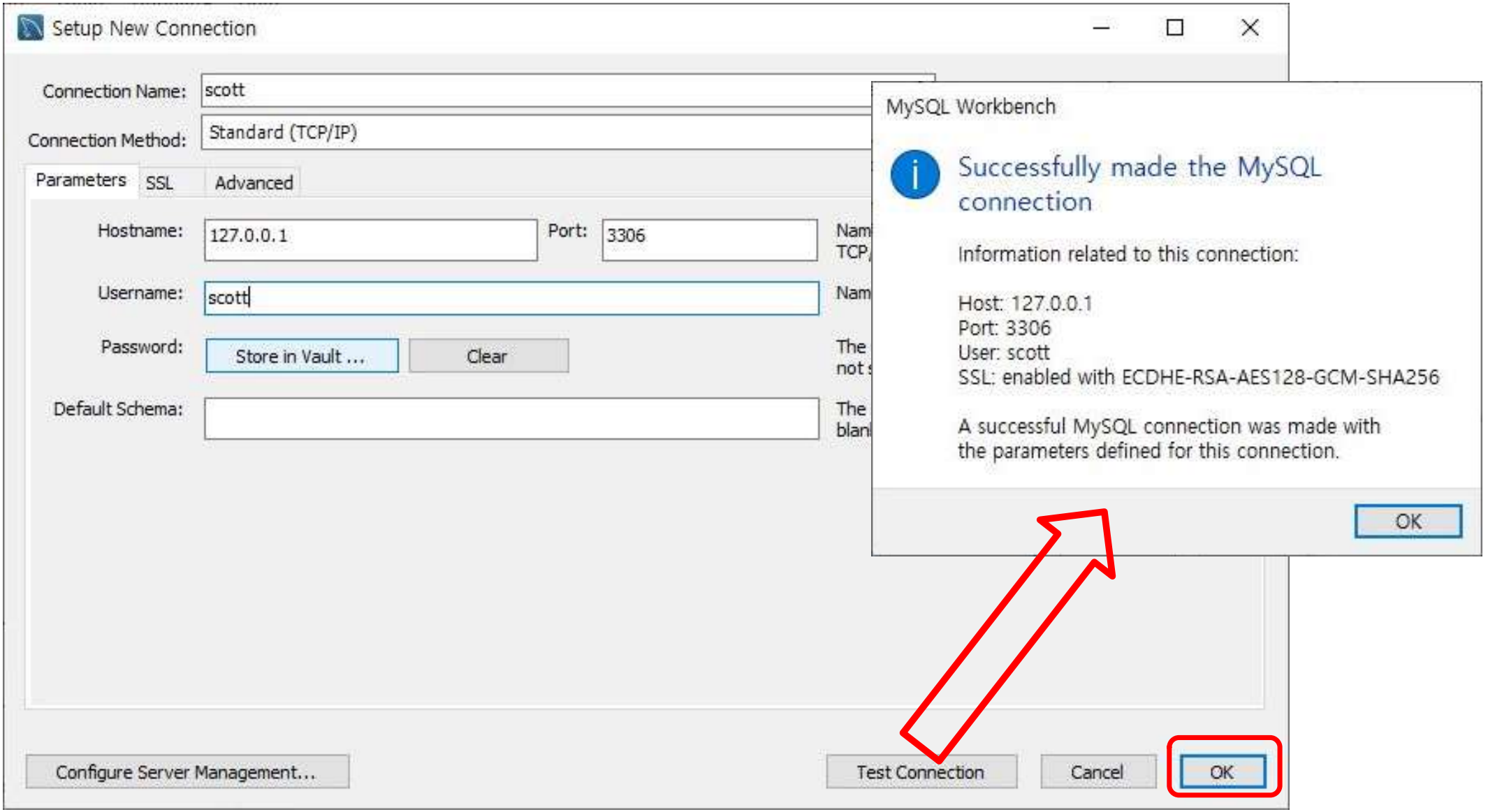
Finish

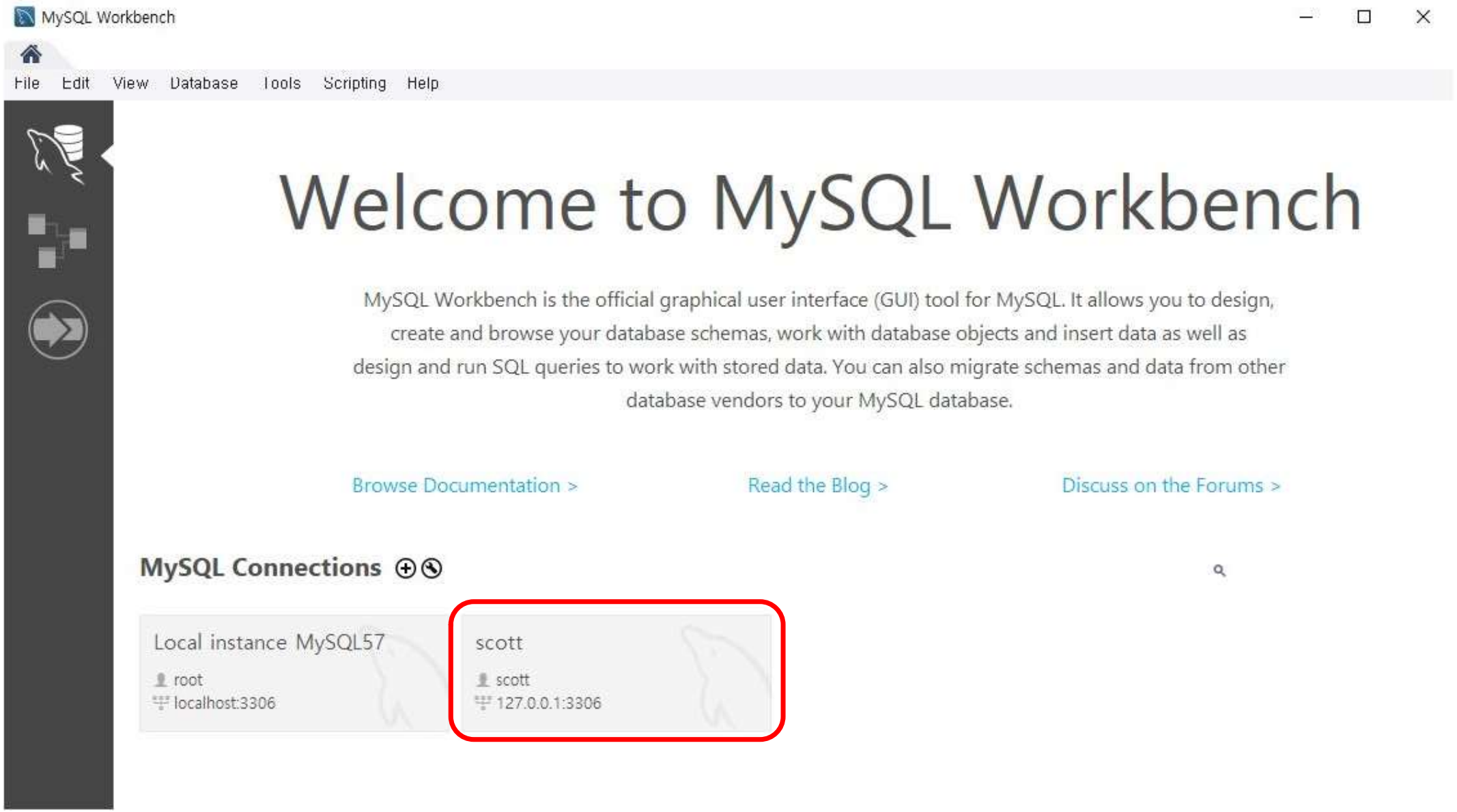
# 설치완료

MySQL 5.7 & Workbench 설치 완료


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
Local instance MySQL57
root
localhost:3306

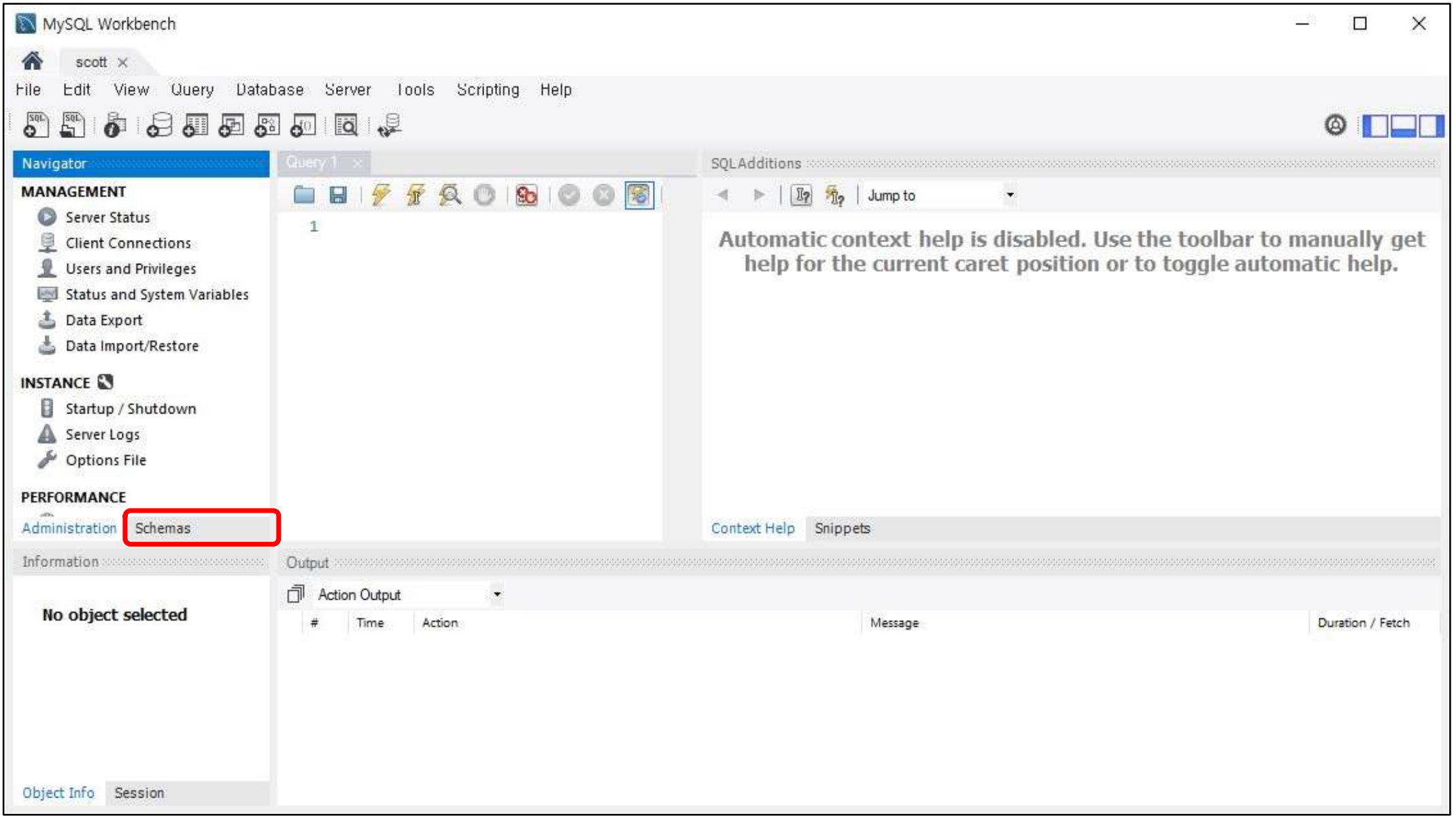

Setup New Connection
Connection Name:
scott
Type a name for the connection
Connection Method:
Standard (TCP/IP)
Method to use to connect to the RDBMS
Parameters
SSL
Advanced
Hostname:
127.0.0.1
Port:
3306
Name or IP address of the server host - and TCP/IP port.
Username:
scott
Name of the user to connect with.
Password:
Store in Vault ...
Clear
The user's password. Will be requested later if it's not set.
Default Schema:
Store Password For Connection
Please enter password for the following service:
Service:
Mysql@127.0.0.1:3306
User:
scott
Password:
*****
OK
Cancel
Workbench
Configure Server Management...
Test Connection
Cancel
OK

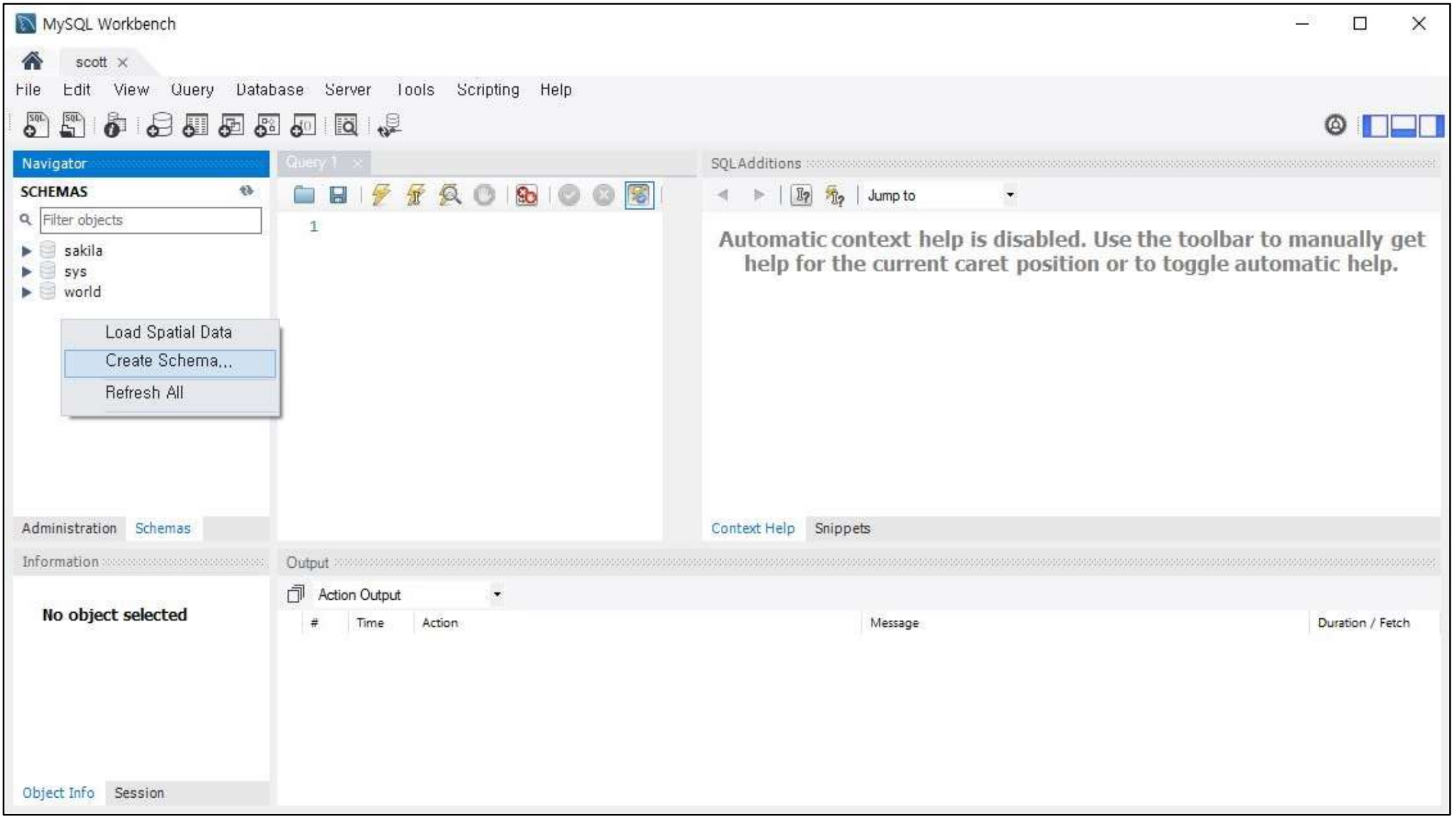

Setup New Connection
Connection Name:
scott
Connection Method:
Standard (TCP/IP)
Parameters
SSL
Advanced
Hostname:
127.0.0.1
Port:
3306
Username:
scott
Password:
Store in Vault ...
Clear
Default Schema:
Configure Server Management...
Test Connection
Cancel
OK
MySQL Workbench
Successfully made the MySQL connection
Information related to this connection:
Host: 127.0.0.1
Port: 3306
User: scott
SSL: enabled with ECDHE-RSA-AES128-GCM-SHA256
A successful MySQL connection was made with the parameters defined for this connection.
OK

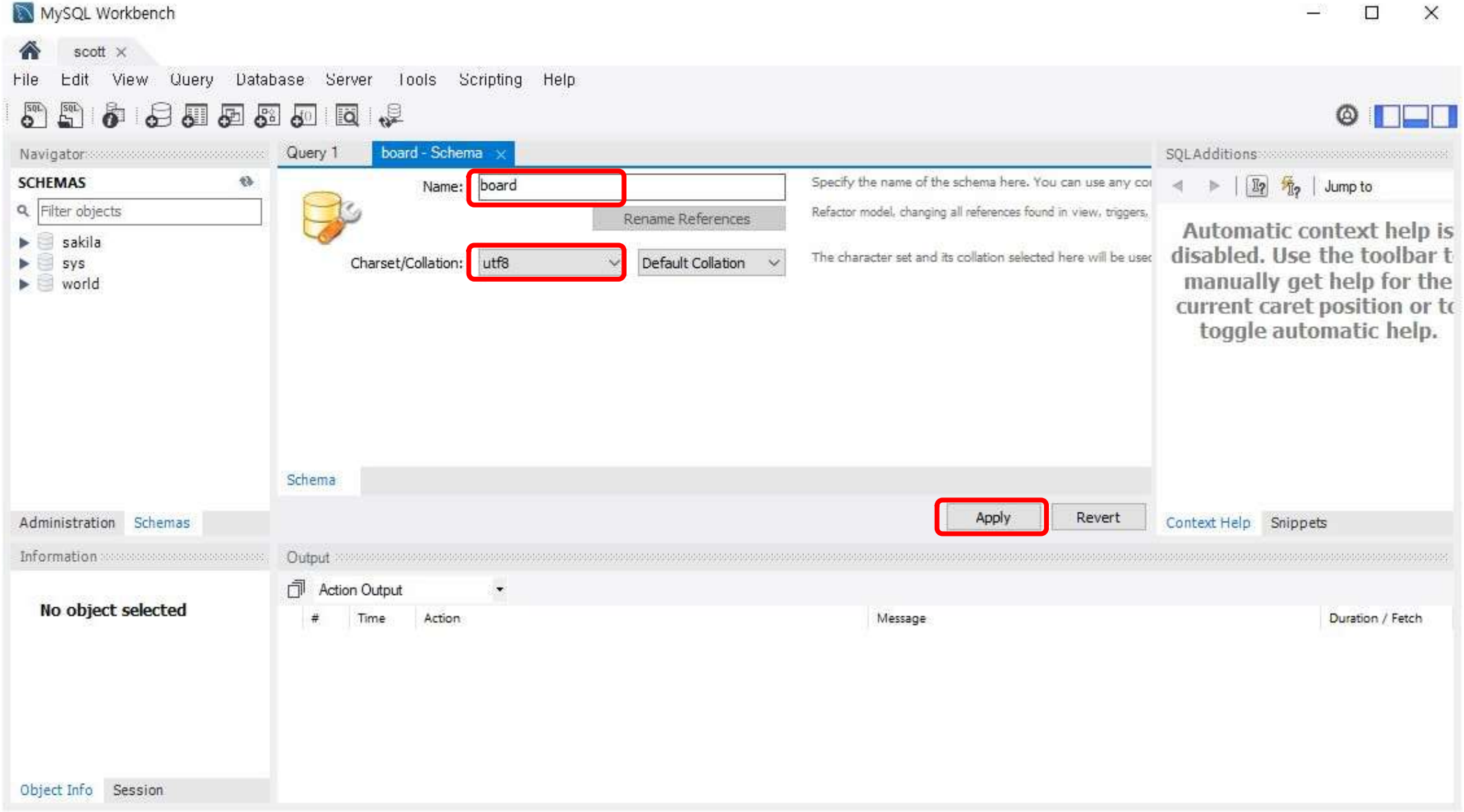

MySQL Workbench
File Edit View Database Tools Scripting Help
Welcome to MySQL Workbench
MySQL Workbench is the official graphical user interface (GUI) tool for MySQL. It allows you to design, create and browse your database schemas, work with database objects and insert data as well as design and run 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
Local instance MySQL57
root
localhost:3306
scott
scott
127.0.0.1:3306

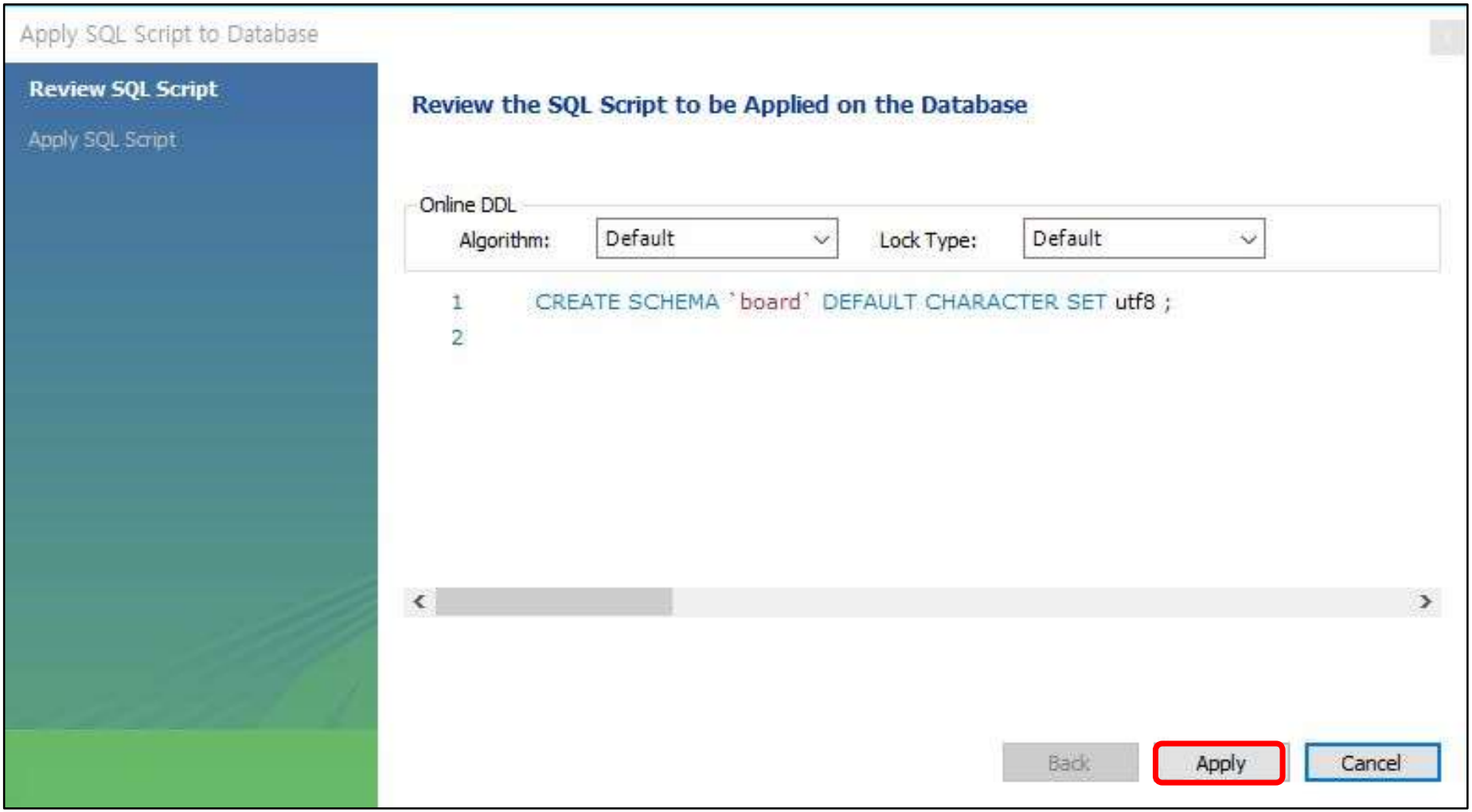
# MySQL 의 새로운 스키마 추가

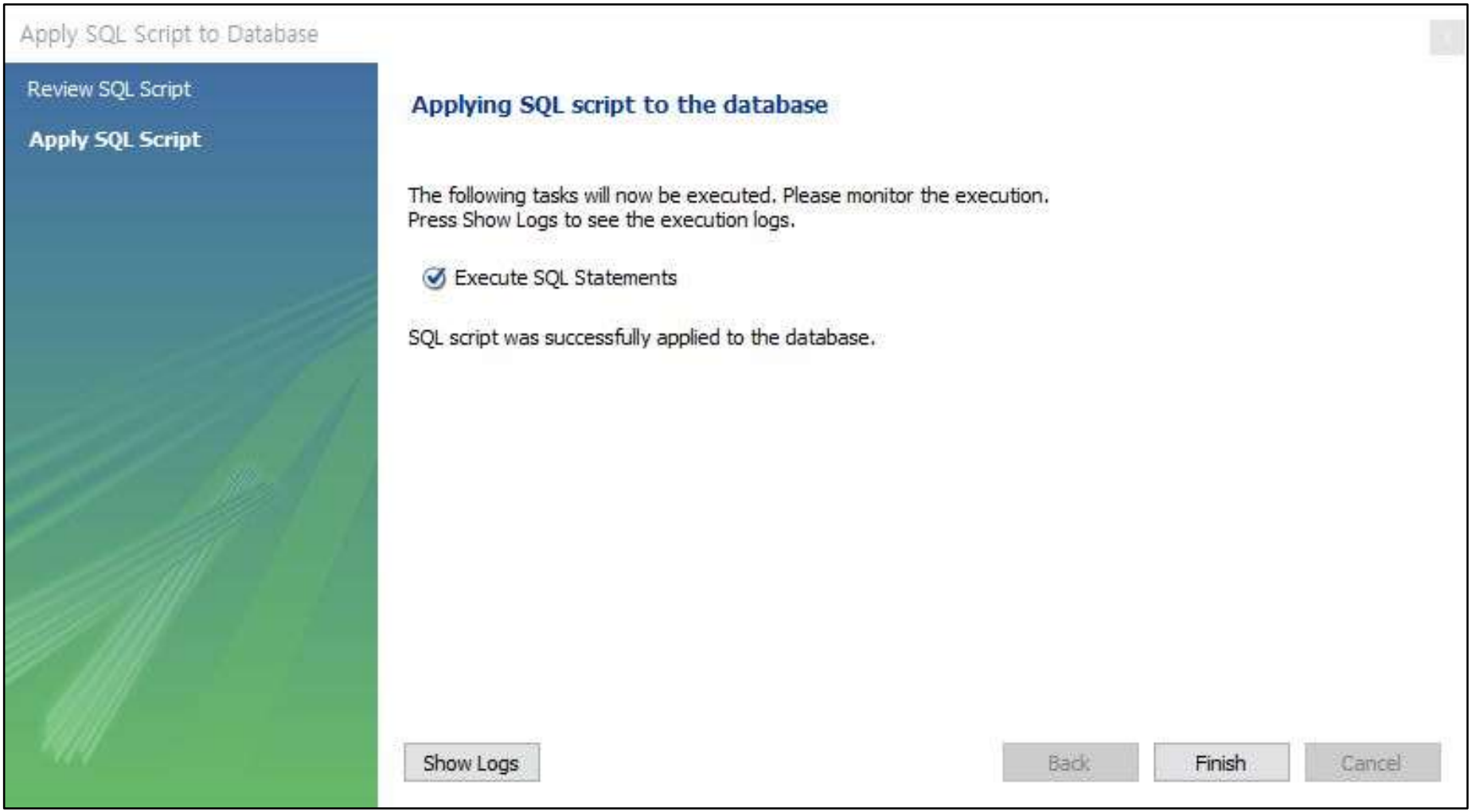
스키마 구성

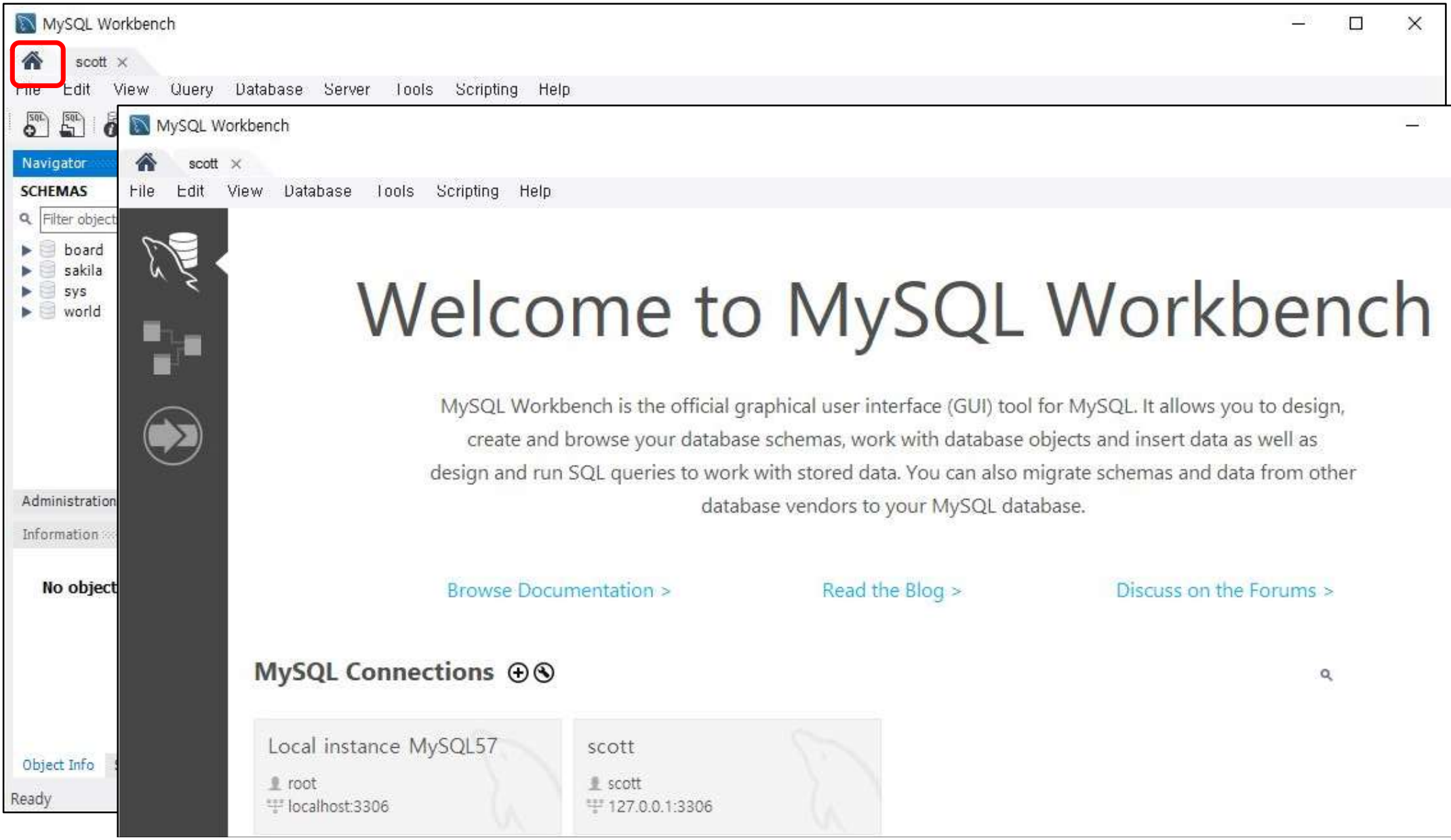

MySQL Workbench
scott
File Edit View Query Database Server Tools Scripting Help
Navigator
MANAGEMENT
Server Status
Client Connections
Users and Privileges
Status and System Variables
Data Export
Data Import/Restore
INSTANCE
Startup / Shutdown
Server Logs
Options File
PERFORMANCE
Administration Schemas
Information
No object selected
Object Info Session
Query 1
1
SQLAdditions
Jump to
Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.
Context Help Snippets
Output
Action Output
# Time Action Message Duration / Fetch


MySQL Workbench
scott
File Edit View Query Database Server Tools Scripting Help
Navigator
SCHEMAS
Filter objects
sakila
sys
world
Load Spatial Data
Create Schema...
Refresh All
Administration Schemas
Information
No object selected
Object Info Session
Query 1
1
SQLAdditions
Jump to
Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.
Context Help Snippets
Output
Action Output
# Time Action Message Duration / Fetch


MySQL Workbench
scott
File Edit View Query Database Server Tools Scripting Help
Navigator
SCHEMAS
Filter objects
sakila
sys
world
Administration Schemas
Information
No object selected
Object Info Session
Query 1
board - Schema
Name: board
Rename References
Specify the name of the schema here. You can use any co
Refactor model, changing all references found in view, triggers,
Charset/Collation: utf8
Default Collation
The character set and its collation selected here will be use
Schema
Apply
Revert
SQLAdditions
Jump to
Automatic context help is disabled. Use the toolbar t manually get help for the current caret position or t toggle automatic help.
Context Help Snippets
Output
Action Output
# Time Action Message Duration / Fetch


Apply SQL Script to Database
Review SQL Script
Apply SQL Script
Review the SQL Script to be Applied on the Database
Online DDL
Algorithm:
Default
Lock Type:
Default
1 CREATE SCHEMA `board` DEFAULT CHARACTER SET utf8 ;
2
Back
Apply
Cancel


Apply SQL Script to Database
Review SQL Script
Apply SQL Script
Applying SQL script to the database
The following tasks will now be executed. Please monitor the execution.
Press Show Logs to see the execution logs.
Execute SQL Statements
SQL script was successfully applied to the database.
Show Logs
Back
Finish
Cancel


MySQL Workbench
scott
File Edit View Query Database Server Tools Scripting Help
Navigator
SCHEMAS
Filter object
board
sakila
sys
world
Administration
Information
No object
Object Info
Ready
MySQL Workbench
scott
File Edit View Database Tools Scripting Help
Welcome to MySQL Workbench
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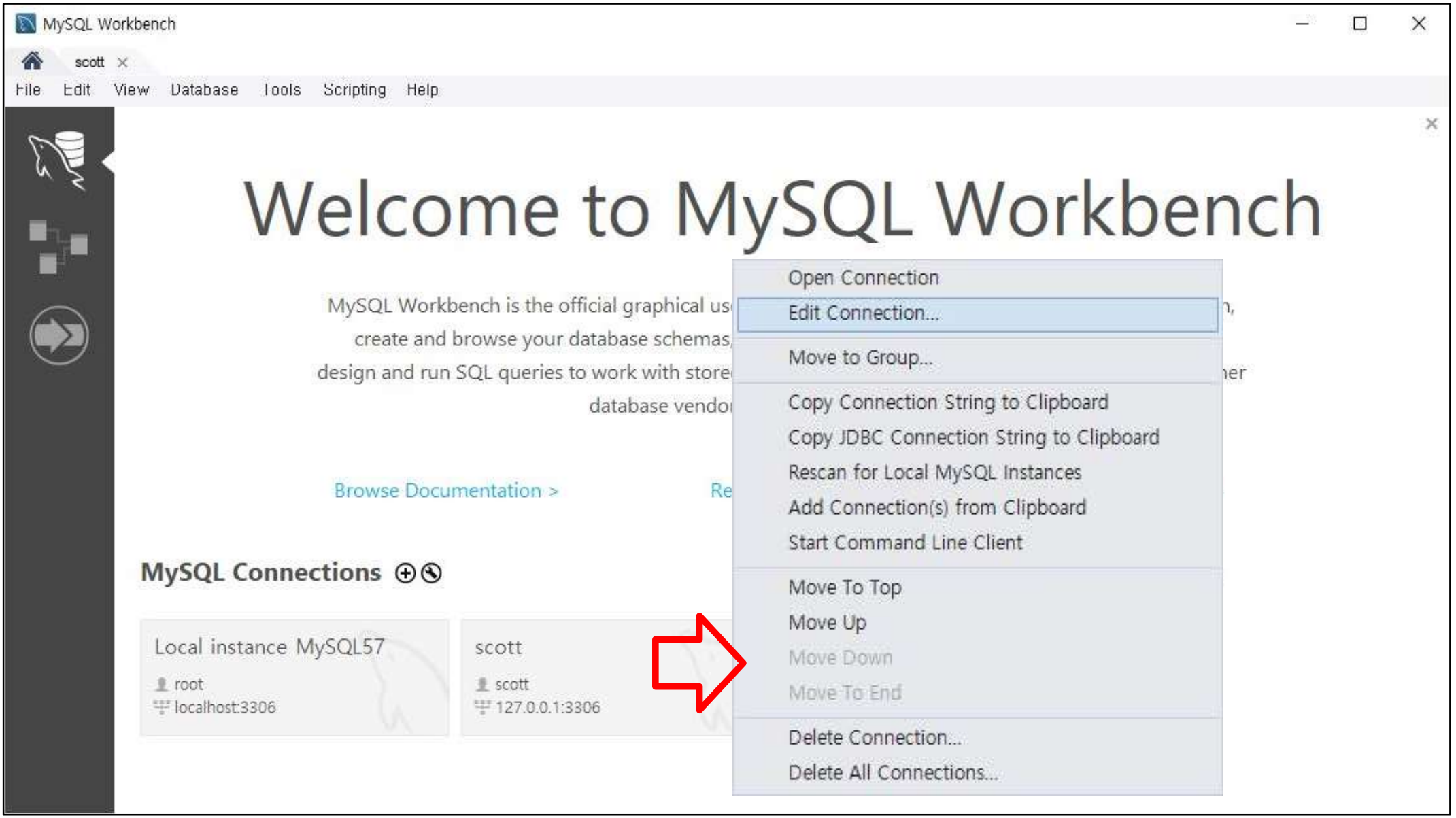
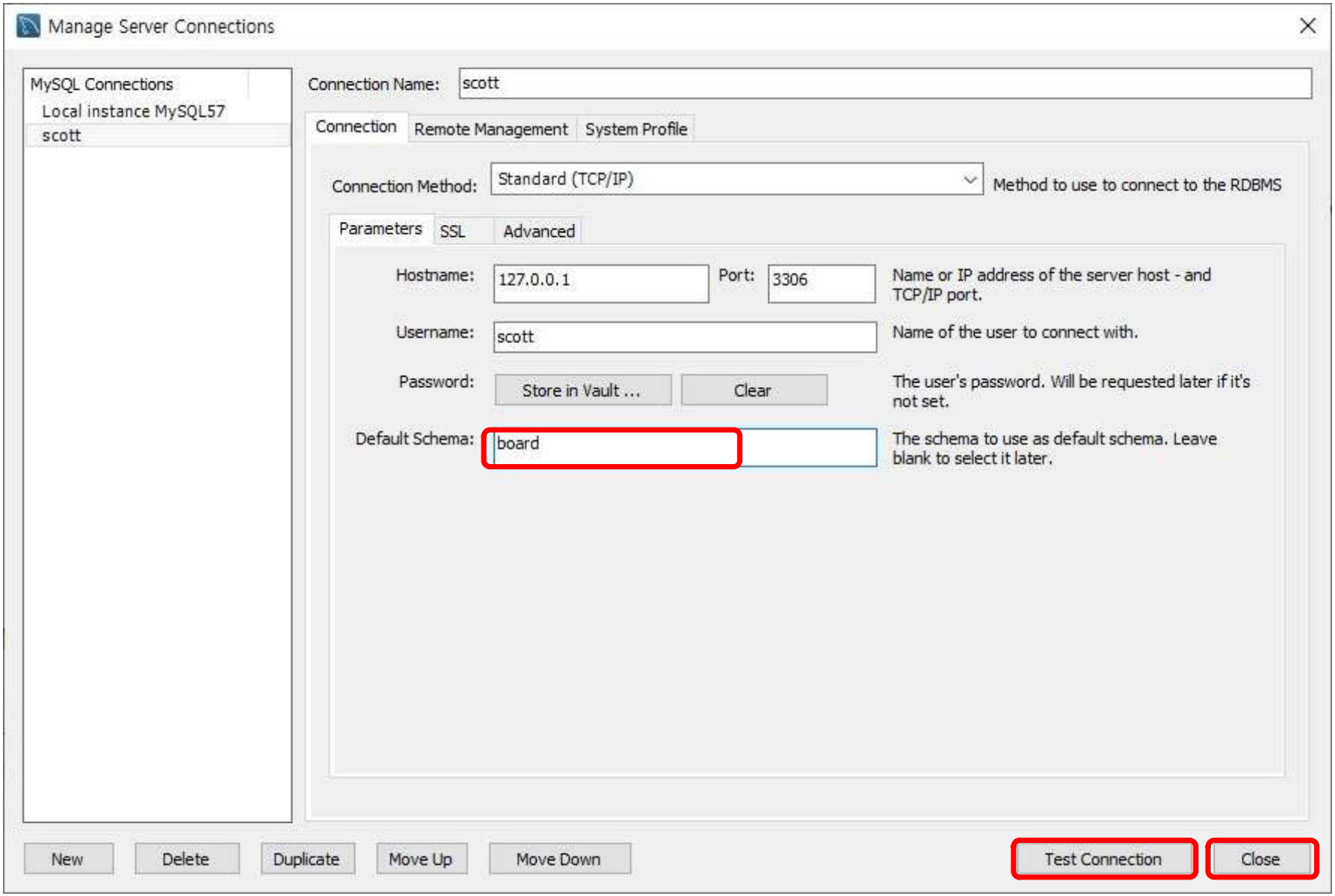
Browse Documentation >
Read the Blog >
Discuss on the Forums >
MySQL Connections
Local instance MySQL57
root
localhost:3306
scott
scott
127.0.0.1:3306


MySQL Workbench
scott
File Edit View Database Tools Scripting Help
Welcome to MySQL Workbench
MySQL Workbench is the official graphical us
create and browse your database schemas,
design and run SQL queries to work with store
database vendo
Browse Documentation >
Re
MySQL Connections
Local instance MySQL57
root
localhost:3306
scott
scott
127.0.0.1:3306
Open Connection
Edit Connection...
Move to Group...
Copy Connection String to Clipboard
Copy JDBC Connection String to Clipboard
Rescan for Local MySQL Instances
Add Connection(s) from Clipboard
Start Command Line Client
Move To Top
Move Up
Move Down
Move To End
Delete Connection...
Delete All Connections...


Manage Server Connections
MySQL Connections
Local instance MySQL57
scott
Connection Name:
scott
Connection
Remote Management
System Profile
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:
scott
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:
board
The schema to use as default schema. Leave blank to select it later.
New
Delete
Duplicate
Move Up
Move Down
Test Connection
Close

# 기본 설치외 추가 설치

MySQL Connector/J
– pom.xml 사용

mvnrepository.com >> mysql >> MySQL …

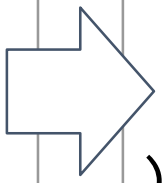
```
<dependency>
    <groupId>com.mysql</groupId>
    <artifactId>mysql-connector-j</artifactId>
    <version>8.0.33</version>
</dependency>
```

# 계속...

```
<dependency>
	<groupId>org.springframework</groupId>
	<artifactId>spring-jdbc</artifactId>
	<version>${org.springframework-version}</version>
</dependency>

<dependency>
	<groupId>org.mybatis</groupId>
	<artifactId>mybatis</artifactId>
	<version>3.2.8</version>
</dependency>

<dependency>
	<groupId>org.mybatis</groupId>
	<artifactId>mybatis-spring</artifactId>
	<version>1.2.2</version>
</dependency>
```

# 오라클 DB 대신 MySQL

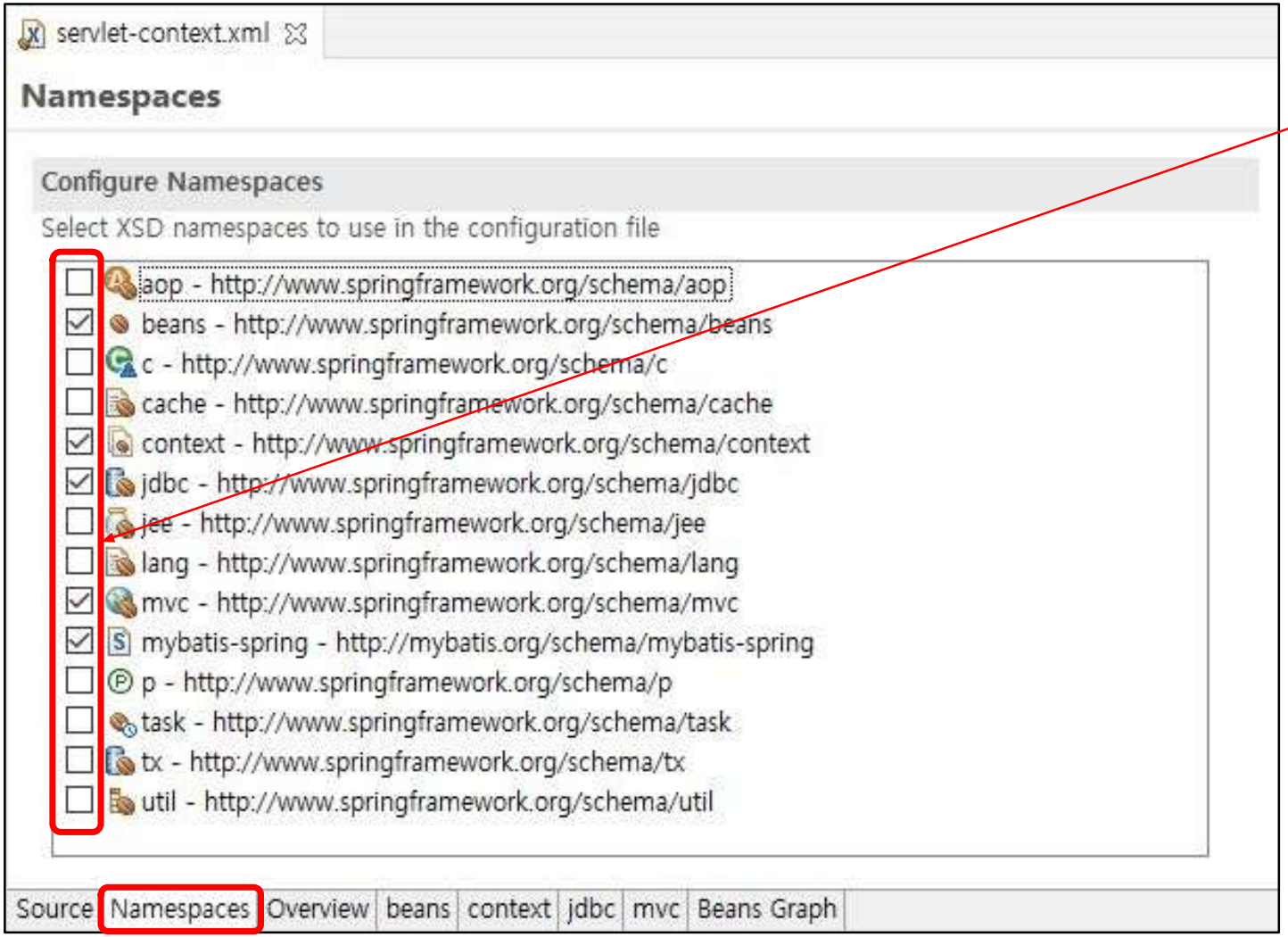
```
create sequence board_seq;
create table board (
    mId number(4) primary key,
    mWriter varchar2(100),
    mContent varchar2(300)
    );


# Oracle DB
```



```
DROP TABLE IF EXISTS `board`;
create table `BOARD` (
    `MID` INT(4) auto_increment ,
    `MWRITER` VARCHAR(100),
    `MCONTENT` VARCHAR(300),
    PRIMARY KEY(`MID`)
)ENGINE=innodb DEFAULT CHARSET=utf8;


# MySQL - No Sequence
```

# servlet-context.xml 수정

```
<!-- # MySQL dataSource -->
	<beans:bean name="dataSource" class="org.springframework.jdbc.datasource.DriverManagerDataSource" >
		<beans:property name="driverClassName" value="com.mysql.cj.jdbc.Driver" />
		<beans:property name="url" value="jdbc:mysql://127.0.0.1:3306/scott?characterEncoding=utf8" />
		<beans:property name="username" value="scott" />
		<beans:property name="password" value="tiger" />
	</beans:bean>

<!-- # mybatis SqlSessionFactoryBean # -->
	<beans:bean id="sqlSessionFactory" class="org.mybatis.spring.SqlSessionFactoryBean">
		<beans:property name="dataSource" ref="dataSource"/>
		<beans:property name="mapperLocations" value="classpath:com/spring/mybatis/dao/mapper/*.xml"/>
	</beans:bean>

	<beans:bean id="sqlSession" class="org.mybatis.spring.SqlSessionTemplate">
		<beans:constructor-arg index="0" ref="sqlSessionFactory"/>
	</beans:bean>
```




Namespaces 처리
왼쪽처럼 필요한 항목 체크

# web.xml 수정

```
<!-- 한글처리 -->
<filter>
  <filter-name>encoding</filter-name>
  <filter-class>org.springframework.web.filter.CharacterEncodingFilter</filter-class>
  <init-param>
    <param-name>encoding</param-name>
    <param-value>UTF-8</param-value>
  </init-param>
</filter>

<filter-mapping>
  <filter-name>encoding</filter-name>
  <url-pattern>/*</url-pattern>
</filter-mapping>
<!-- 한글처리 -->
```

com.spring.mybatis.dao.mapper

IDao.xml

```
<?xml version="1.0" encoding="UTF-8"?>

<!DOCTYPE mapper
    PUBLIC "-//mybatis.org//DTD Mapper 3.0//EN"
    "http://mybatis.org/dtd/mybatis-3-mapper.dtd">

<mapper namespace="com.spring.mybatis.dao.IDao">

    <select id="listDao" resultType="com.spring.mybatis.dto.ContentDto">
         SELECT * FROM BOARD ORDER BY MID DESC
     </select>

     <insert id="writeDao">
         INSERT INTO BOARD ( MWRITER, MCONTENT) VALUES (  #{param1}, #{param2})
     </insert>

     <delete id="deleteDao">
         DELETE FROM BOARD WHERE MID = #{param1}
     </delete>

</mapper>
```

# 파일 이름과 위치

com.spring.mybatis >> HomeController.java
com.spring.mybatis.dao >> IDao.java
com.spring.mybatis.dto >> ContentDto.java

com.spring.mybatis >> HomeController.java

```
package com.spring.mybatis;

import java.text.DateFormat;
import java.util.Date;
import java.util.Locale;

import javax.servlet.http.HttpServletRequest;

import org.apache.ibatis.session.SqlSession;
import org.slf4j.Logger;
import org.slf4j.LoggerFactory;
import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.stereotype.Controller;
import org.springframework.ui.Model;
import org.springframework.web.bind.annotation.RequestMapping;
import org.springframework.web.bind.annotation.RequestMethod;

import com.spring.mybatis.dao.IDao;

@Controller
public class HomeController {

	@Autowired
	private SqlSession sqlSession;

	private static final Logger logger = LoggerFactory.getLogger(HomeController.class);
```

# com.spring.mybatis >> HomeController.java

```
@RequestMapping(value = "/", method = RequestMethod.GET)
public String home(Locale locale, Model model) {
	logger.info("Welcome home! The client locale is {}.", locale);

	Date date = new Date();
	DateFormat dateFormat = DateFormat.getDateTimeInstance(DateFormat.LONG, DateFormat.LONG, locale);
	String formattedDate = dateFormat.format(date);
	model.addAttribute("serverTime", formattedDate );
	return "home";
}

@RequestMapping("/list")
public String list(Model model) {
	IDao dao = sqlSession.getMapper(IDao.class);
	model.addAttribute("list", dao.listDao());
	return "list";
}

@RequestMapping("/writeForm")
public String writeForm() {
	return "writeForm";
}
```

## com.spring.mybatis >> HomeController.java

```
	@RequestMapping("/write")
	public String write(HttpServletRequest request, Model model) {
		IDao dao = sqlSession.getMapper(IDao.class);
		dao.writeDao(request.getParameter("mWriter"), request.getParameter("mContent"));
		return "redirect:list";
	}

	@RequestMapping("/view")
	public String view() {
		return "view";
	}

	@RequestMapping("/delete")
	public String delete(HttpServletRequest request, Model model) {
		IDao dao = sqlSession.getMapper(IDao.class);
		dao.deleteDao(request.getParameter("mId"));
		return "redirect:list";
	}

}
```

# com.spring.mybatis.dao >> IDao.java

```
package com.spring.mybatis.dao;

import java.util.ArrayList;

import com.spring.mybatis.dto.ContentDto;

public interface IDao {

	public ArrayList<ContentDto> listDao();
	public void writeDao(String mWriter, String mContent);
	public ContentDto viewDao(String stdID);
	public void deleteDao(String bId);

}
```

com.spring.mybatis.dto >> ContentDto.java

```
package com.spring.mybatis.dto;

public class ContentDto {

	private int mId;
	private String mWriter;
	private String mContent;

	public ContentDto() { }

	public ContentDto(int mId, String mWriter, String mContent) {
		super();
		this.mId = mId;
		this.mWriter = mWriter;
		this.mContent = mContent;
	}

	public int getmId() { return mId; }
	public String getmWriter() {return mWriter;}
	public String getmContent() {return mContent;}
	public void setmId(int mId) {this.mId = mId;}
	public void setmWriter(String mWriter) {this.mWriter = mWriter;}
	public void setmContent(String mContent) {this.mContent = mContent;}
}
```

# 뷰어

jsp 파일 상단에 다음 내용 추가 (없으면)

```
<%@ page language="java" contentType="text/html; charset=UTF-8" pageEncoding="UTF-8"%>
```

작성

list.jsp

writeForm.jsp

# list.jsp

```
<%@ page language="java" contentType="text/html; charset=UTF-8" pageEncoding="UTF-8"%>
<%@ taglib prefix="c" uri="http://java.sun.com/jsp/jstl/core" %>
<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN" "http://www.w3.org/TR/html4/loose.dtd">
<html>
<head>
<meta http-equiv="Content-Type" content="text/html; charset=UTF-8">
<title>Insert title here</title>
</head>
<body>
<table width="500" cellpadding="0" cellspacing="0" border="1">
      <tr>
            <td>번호</td>
            <td>작성자</td>
            <td>내용</td>
            <td>삭제</td>
      <tr>
      <c:forEach items="${list}" var="dto">
      <tr>
            <td>${dto.mId}</td>
            <td>${dto.mWriter}</td>
            <td>${dto.mContent}</td>
            <td><a href="delete?mId=${dto.mId}">X</a></td>
      <tr>
      </c:forEach>
</table>
<p><a href="writeForm">글작성</a></p>
</body>
</html>
```

# writeForm.jsp

```
<%@ page language="java" contentType="text/html; charset=UTF-8" pageEncoding="UTF-8"%>
<!DOCTYPE html>
<html>
<head>
<meta charset="UTF-8">
<title>Insert title here</title>
</head>
<body>
<table width="500" cellpadding="10" cellspacing="0" border="1">
	<form action="write" method="post">
	<thead>
		<tr>
			<td > 작성자 </td>
			<td> <input type="text" name="mWriter" size = "50"> </td>
		</tr>
	</thead>
	<tbody>
		<tr>
			<td> 내용 </td>
			<td> <input type="text" name="mContent" size = "150" > </td>
		</tr>
		<tr >
			<td colspan="2"> <input type="submit" value="입력"><a href="list">목록보기</a></td>
		</tr>
	</tbody>
	</form>
</table>
</body>
</html>
```