

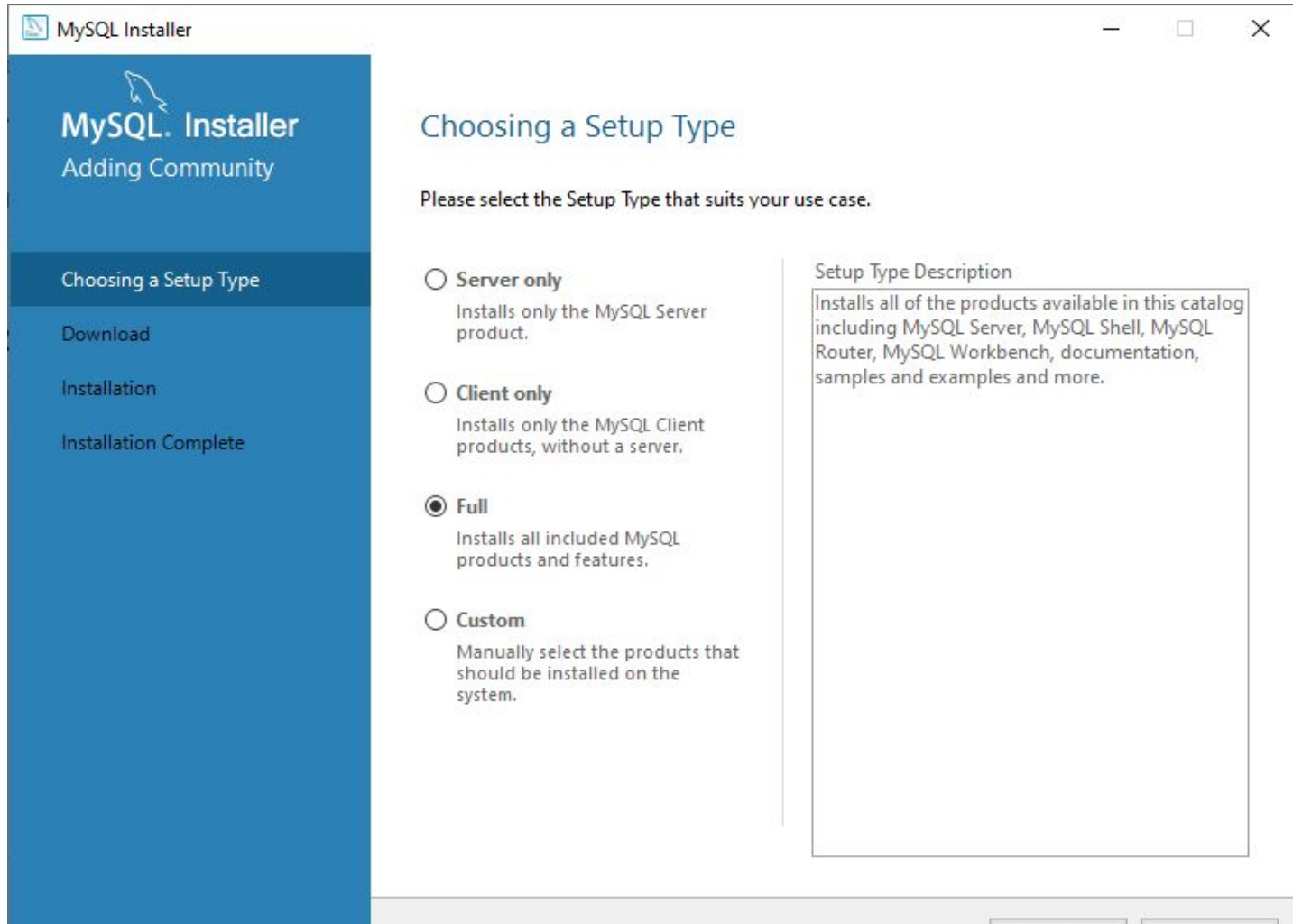
Week 1 Lab

Step by step

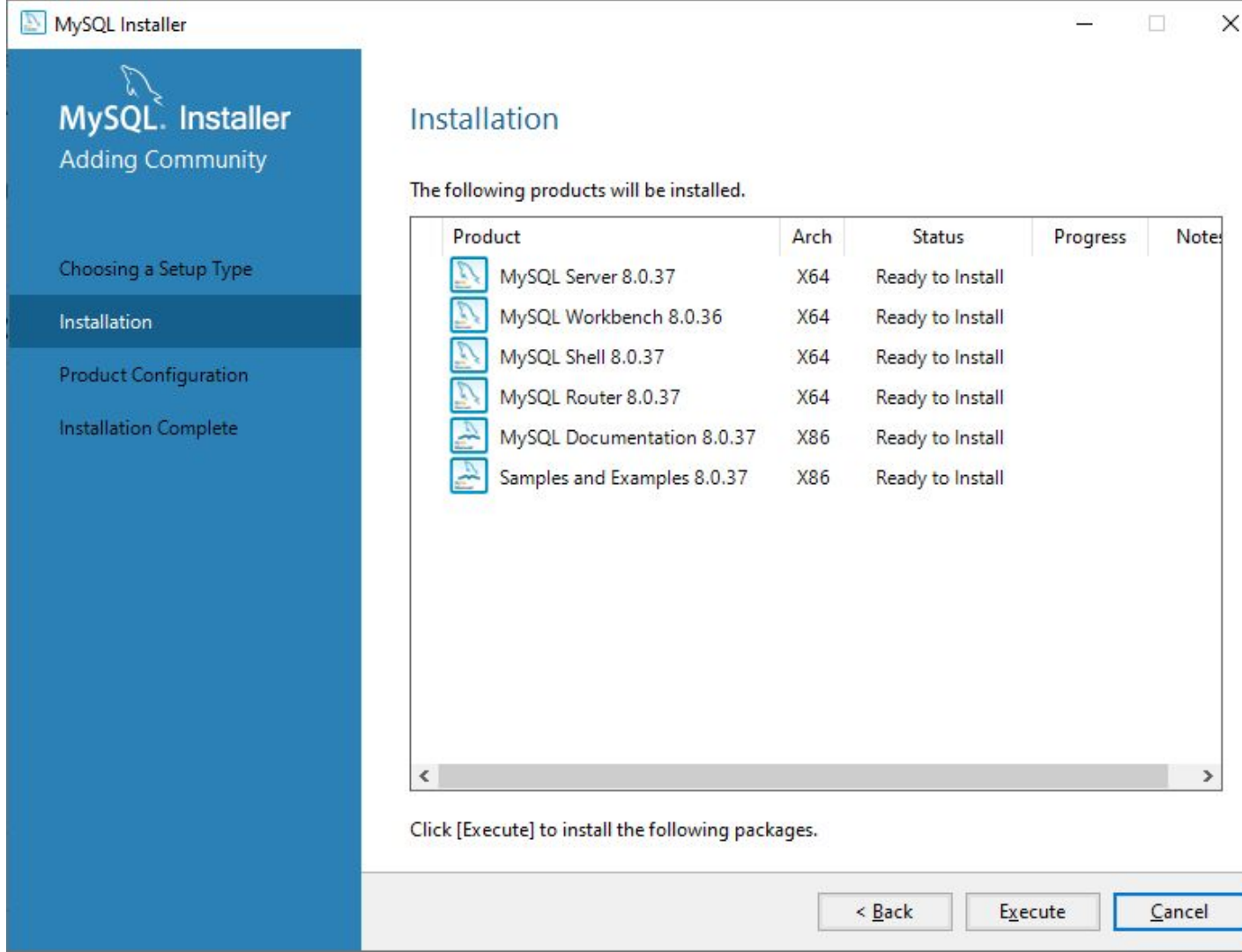
ACIT 1630

Begin your
installation with
some
configuration
options

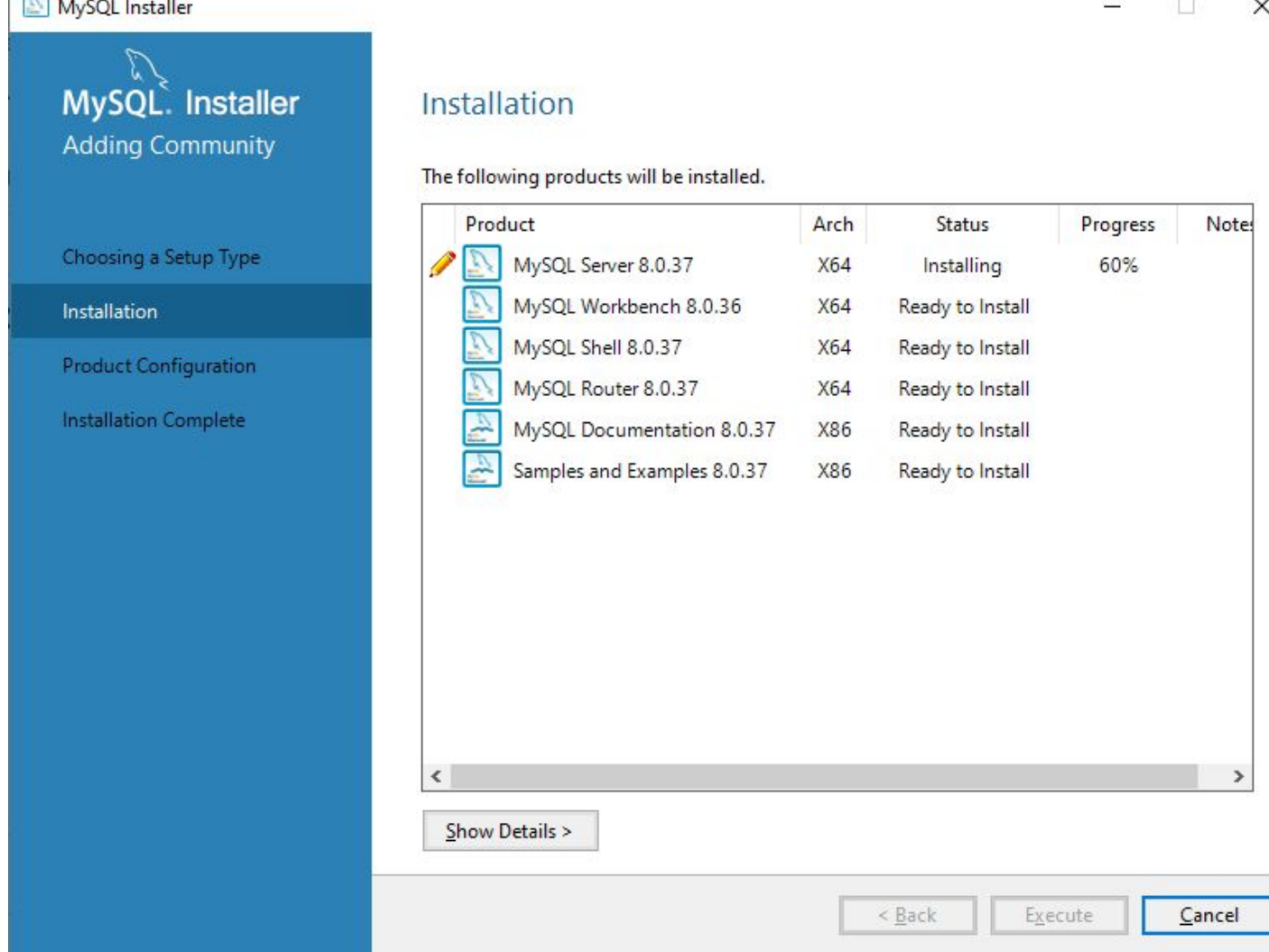
Start with a full
installation



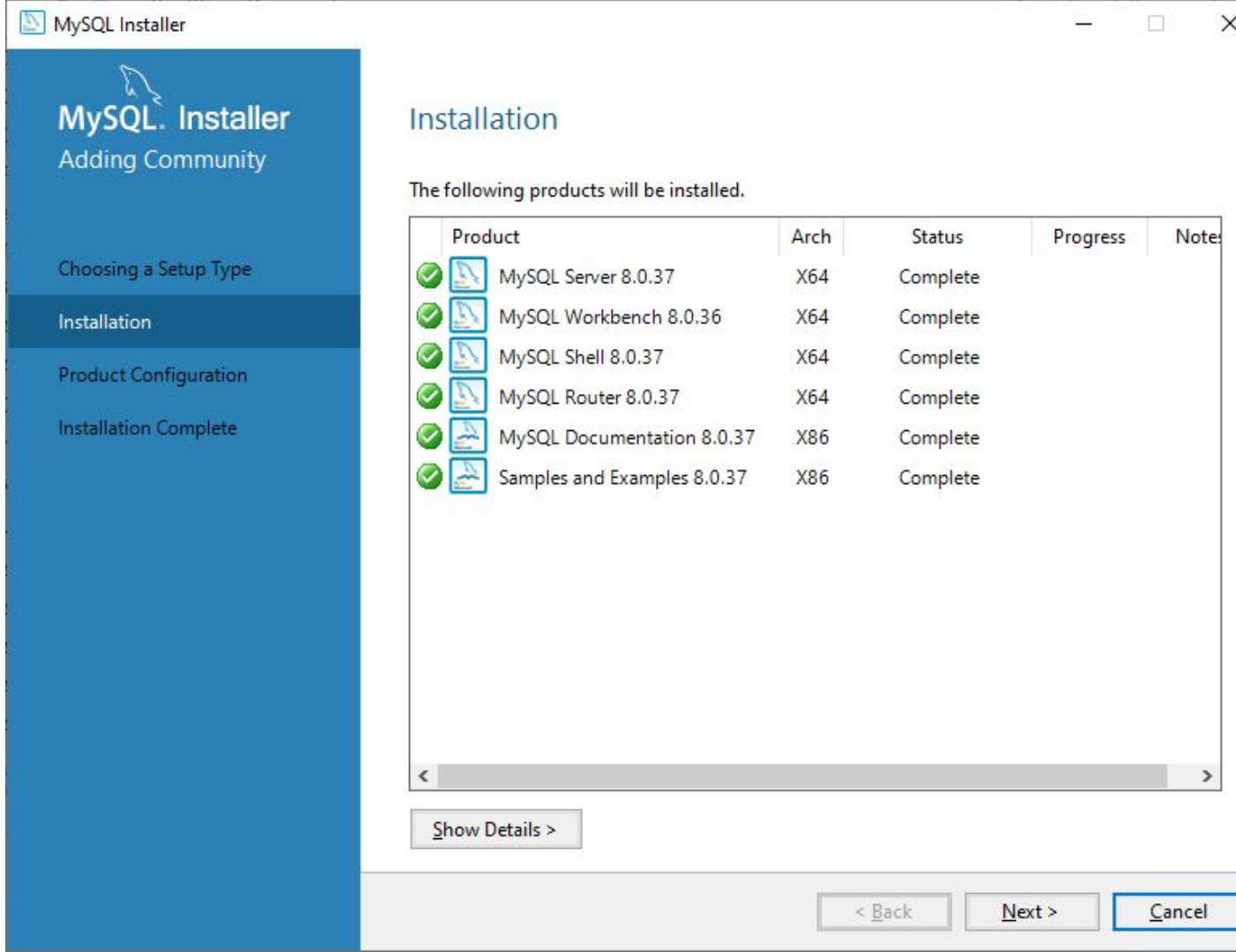
Install all
components



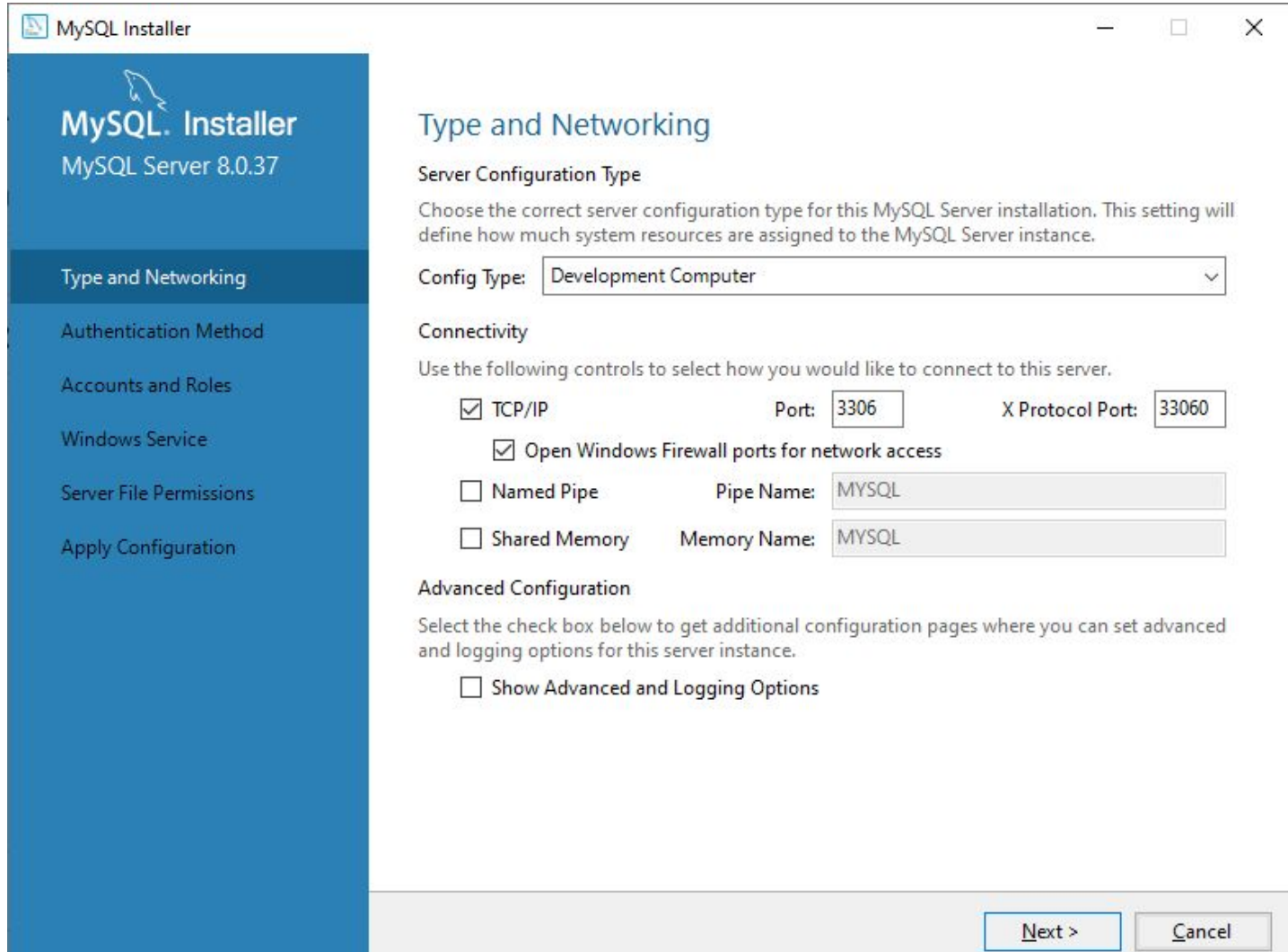
Execute



Watch



Choose the
Development
computer config
type



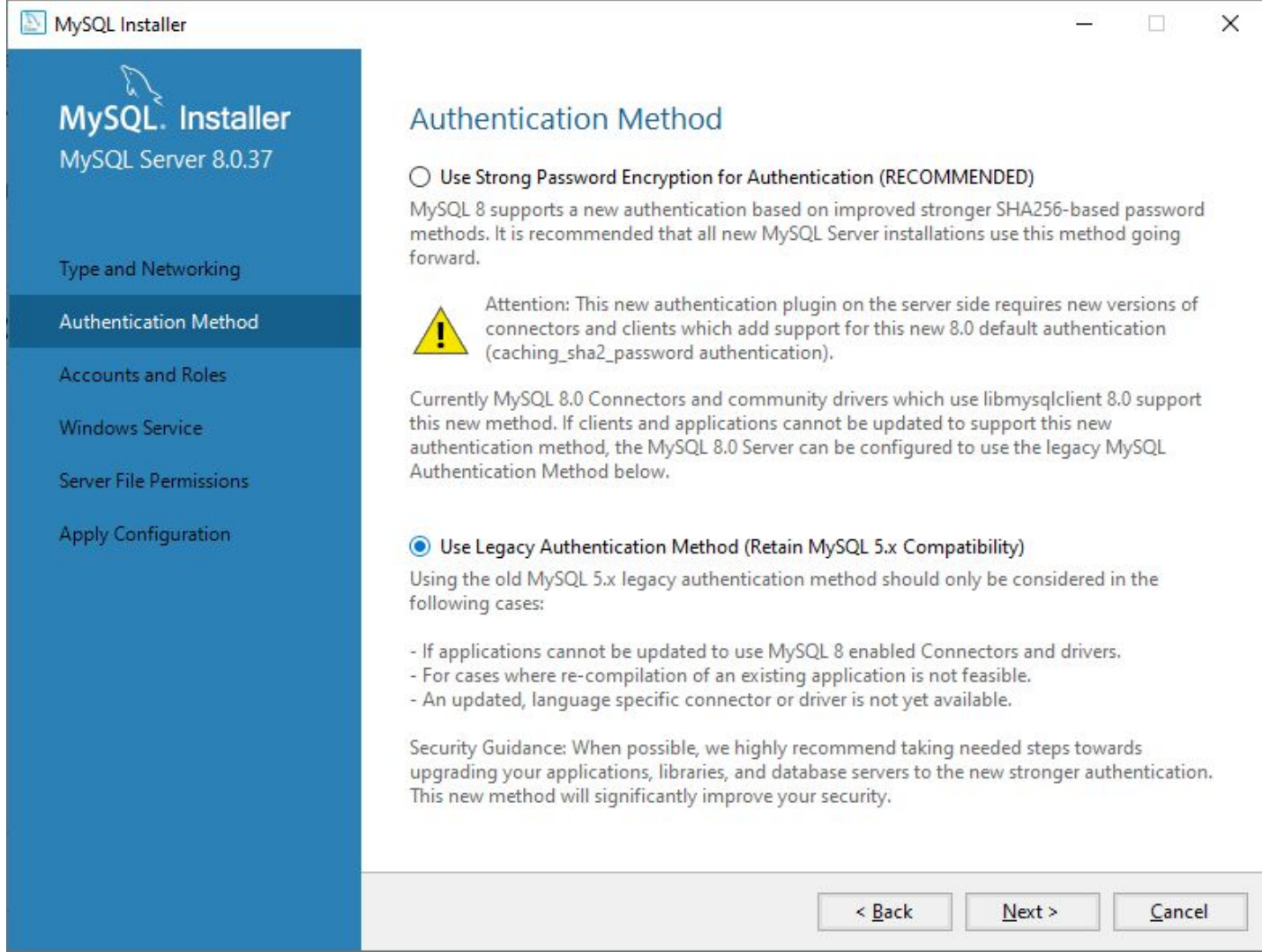
The screenshot shows the MySQL Installer window for MySQL Server 8.0.37. The left sidebar contains a list of configuration steps: 'Type and Networking' (selected), 'Authentication Method', 'Accounts and Roles', 'Windows Service', 'Server File Permissions', and 'Apply Configuration'. The main area is titled 'Type and Networking' and contains the following sections:

- Server Configuration Type**: A dropdown menu set to 'Development Computer'. Below it is a descriptive text: '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.'
- Connectivity**: A section with the text 'Use the following controls to select how you would like to connect to this server.' It includes:
 - ☒ 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**: A section with the text 'Select the check box below to get additional configuration pages where you can set advanced and logging options for this server instance.' It includes:
 - ☐ Show Advanced and Logging Options

At the bottom right, there are 'Next >' and 'Cancel' buttons.

Choose legacy authentication

It will save some headaches later



Record your password somewhere you are certain to find it again, or it will all end in tears.

Many, many tears.

The screenshot shows the MySQL Installer window for MySQL Server 8.0.37. The left sidebar contains a list of steps: Type and Networking, Authentication Method, Accounts and Roles (which is highlighted), Windows Service, Server File Permissions, and Apply Configuration. The main area is titled 'Accounts and Roles' and contains the following sections:

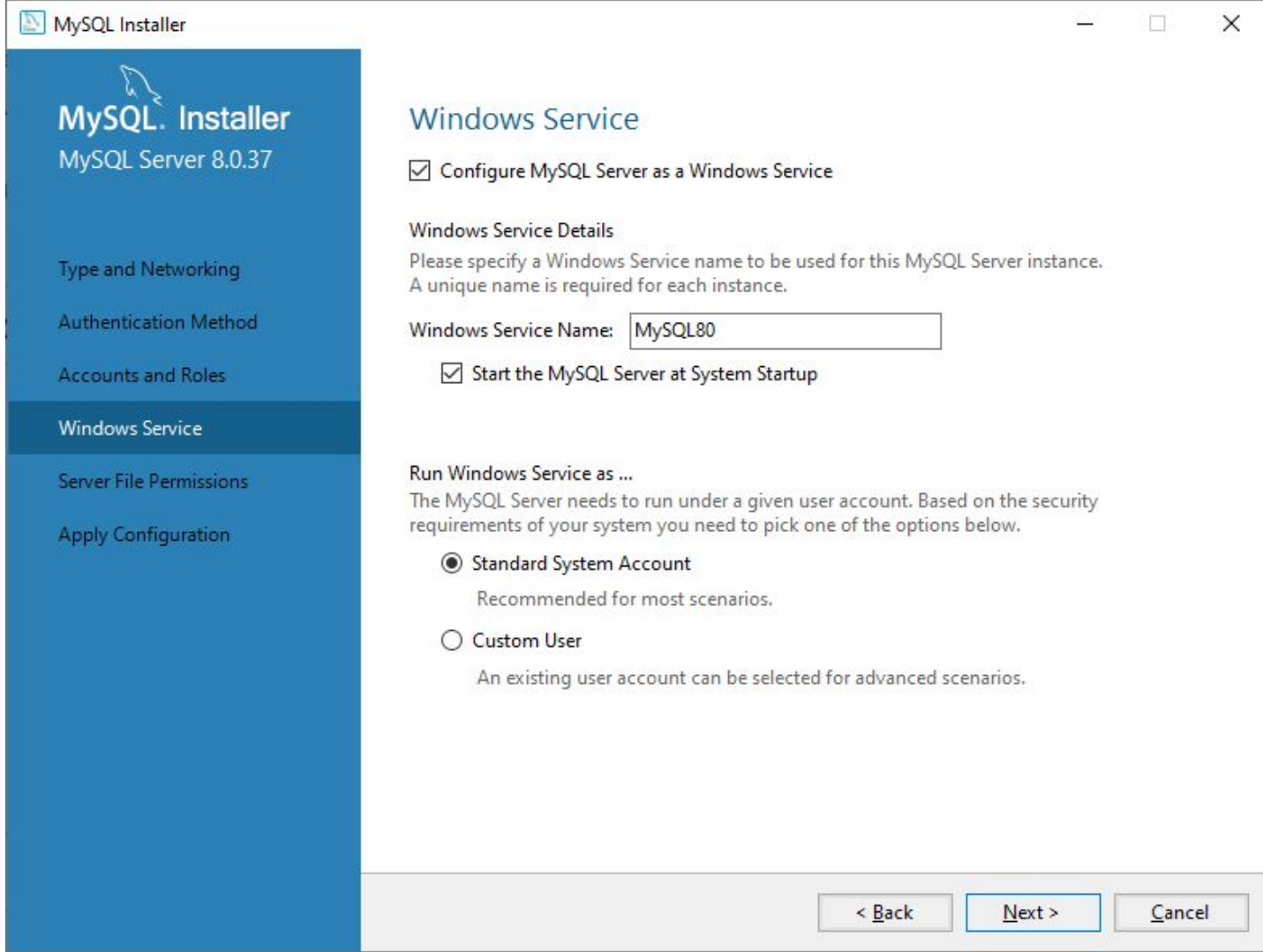
- Root Account Password**: A text box for the root password and a 'Repeat Password' text box. The password strength is indicated as 'Weak' in red text.
- MySQL User Accounts**: A section with instructions to create MySQL user accounts and assign roles. Below the instructions is a table with columns for 'MySQL User Name', 'Host', and 'User Role'. To the right of the table are buttons for 'Add User', 'Edit User', and 'Delete'.

At the bottom of the window are navigation buttons: '< Back', 'Next >', and 'Cancel'.

MySQL User Name	Host	User Role
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Set the server
up to start as a
windows service

It will start up
when you start
Windows



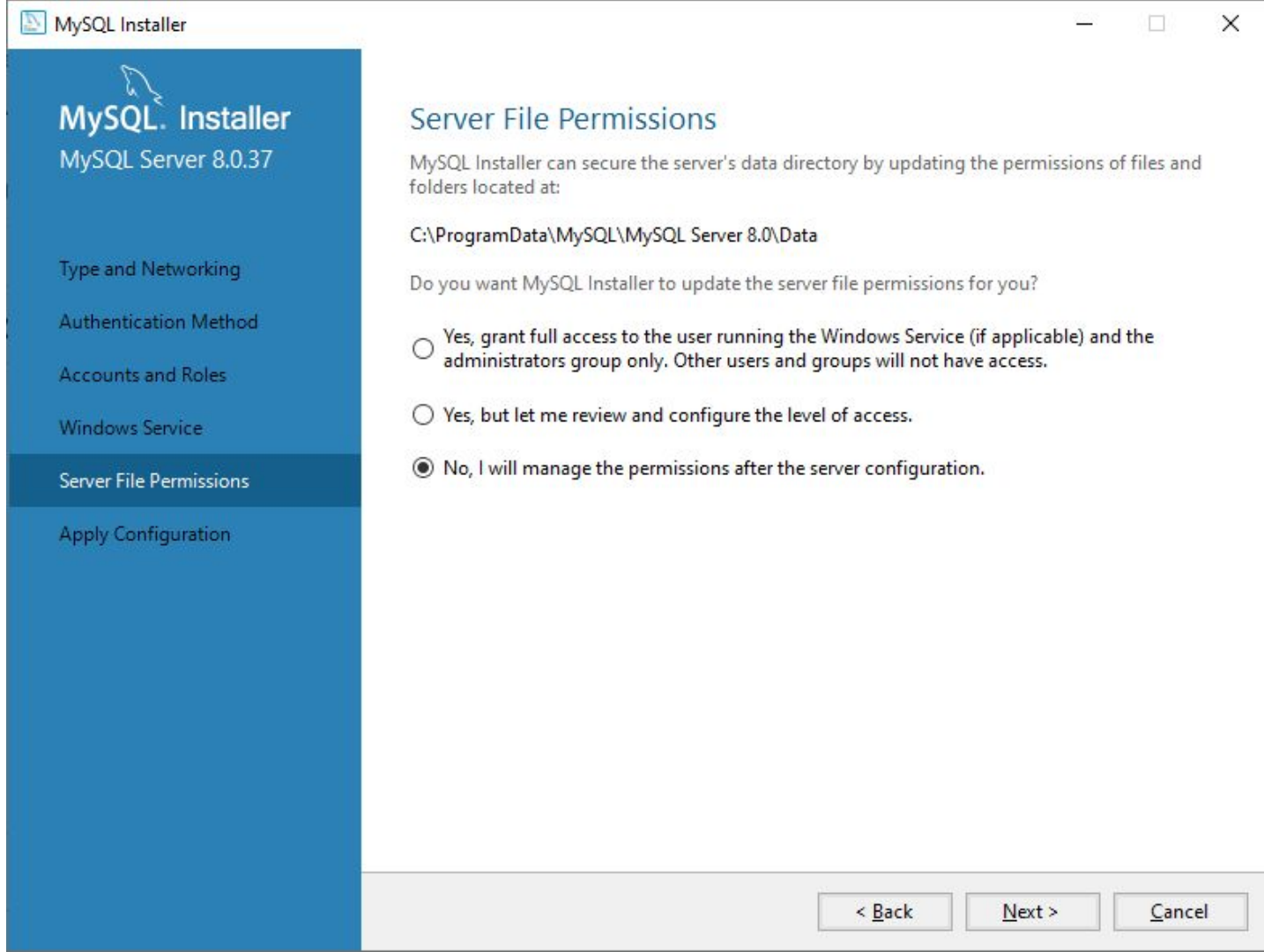
The screenshot shows the 'MySQL Installer' window for 'MySQL Server 8.0.37'. The left sidebar contains a list of configuration steps: 'Type and Networking', 'Authentication Method', 'Accounts and Roles', 'Windows Service' (which is highlighted), 'Server File Permissions', and 'Apply Configuration'. The 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.

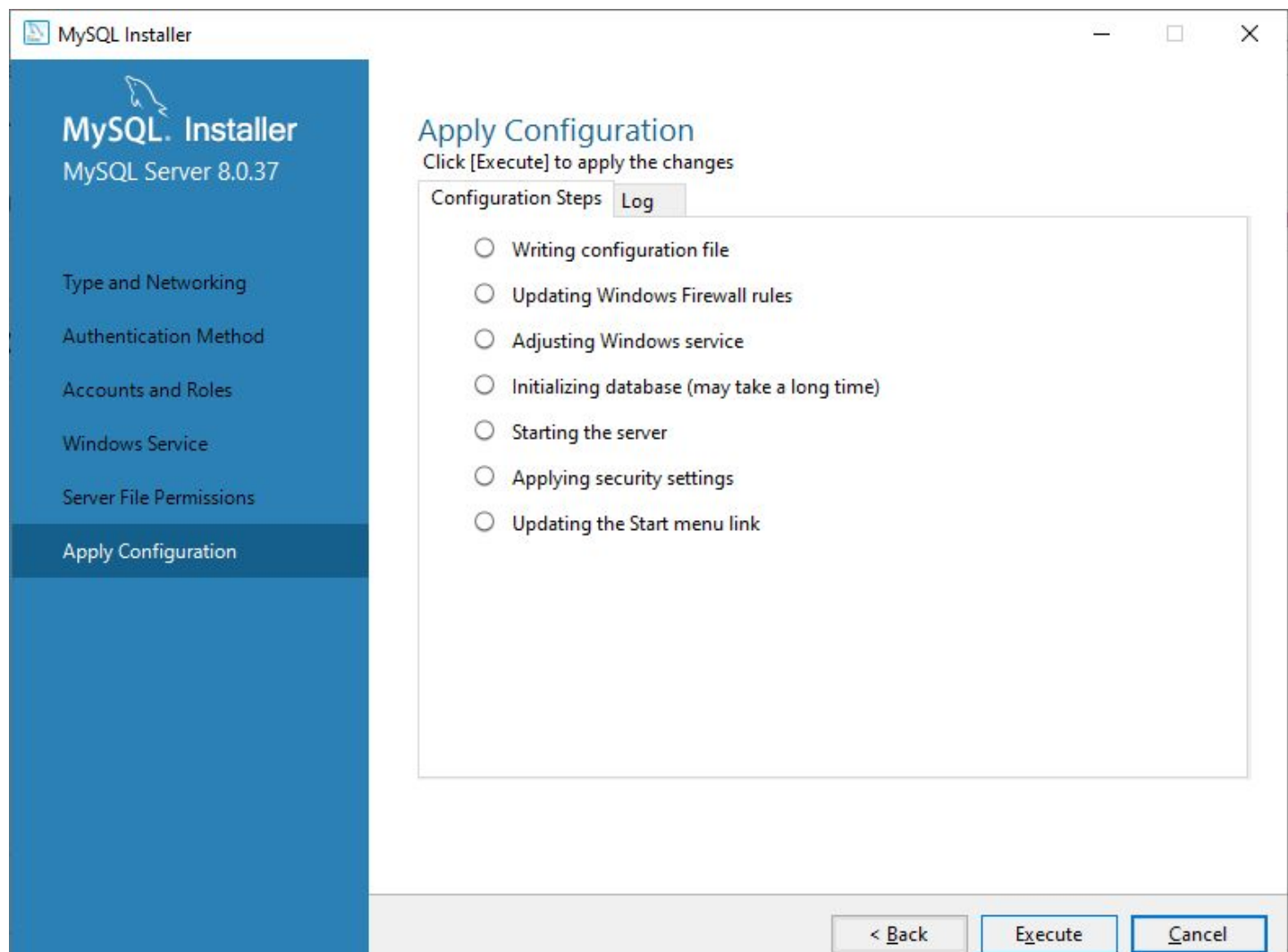
At the bottom right, there are three buttons: '< Back', 'Next >', and 'Cancel'.

We will set up
server
permissions
later

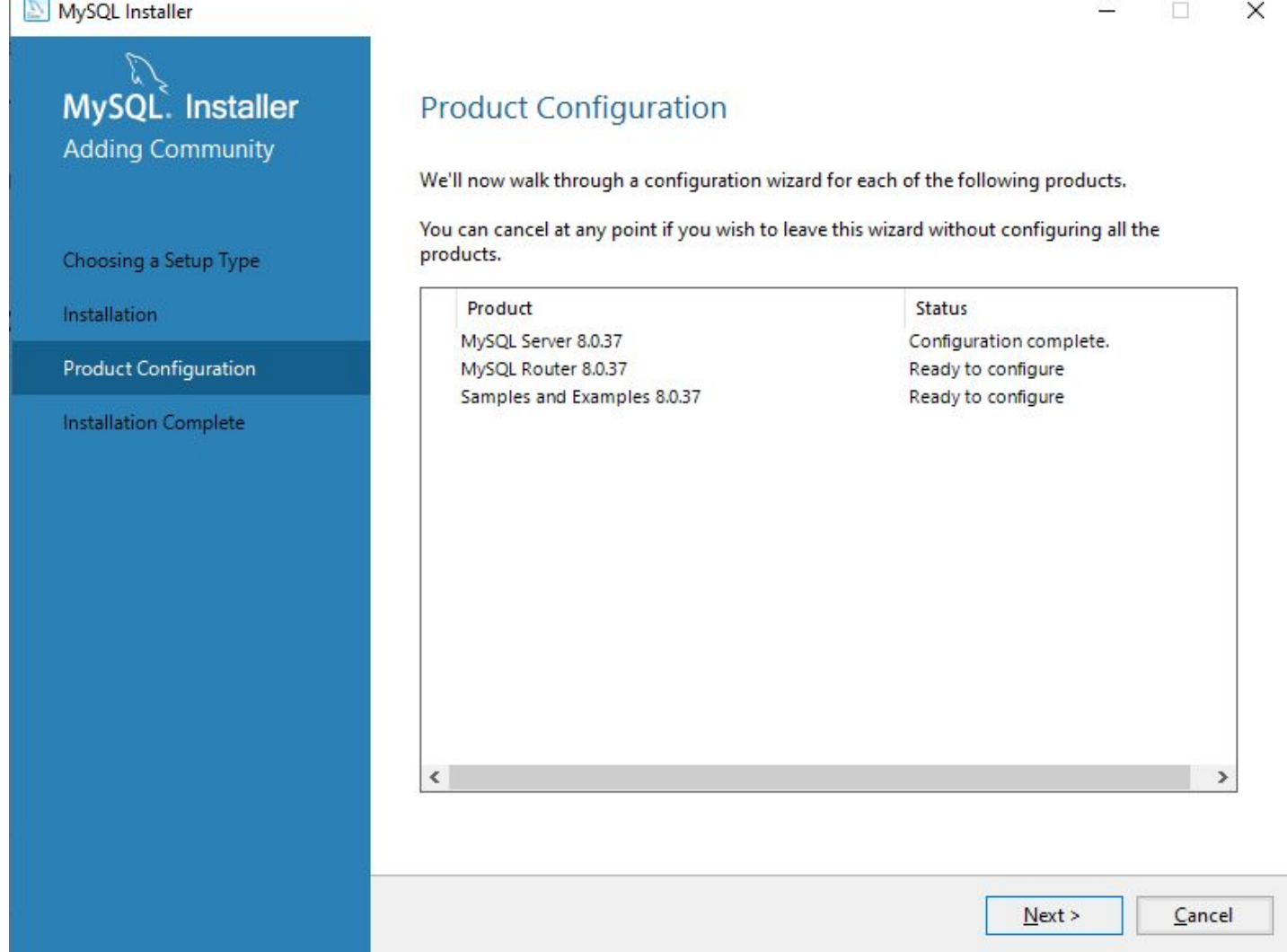
To avoid tears
now



Execute the
changes



Watch



No need to setup
router
configuration

Select Finish

The screenshot shows the 'MySQL Router Configuration' window of the MySQL Installer. The window has a blue sidebar on the left with the MySQL logo and the text 'MySQL Installer' and 'MySQL Router 8.0.37'. The main area is white and contains the following elements:

- MySQL Router Configuration** (Section Header)
- ☐ 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 bootstrapping 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:
- Management User:
- Password:
-
- 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:
- Read Only:
- X Protocol connections to InnoDB Cluster:
- Read/Write:
- Read Only:
-

Next

Connect to the
server when
prompted

If you forgot your
password look it
up

If you forgot
where you
recorded your
password, there
will be tears

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
<input checked="" type="checkbox"/>	MySQL Server 8.0.37	3306	X64	Stand-alone Server	Running

Provide the credentials that should be used (requires root privileges).
Click "Check" to ensure they work.

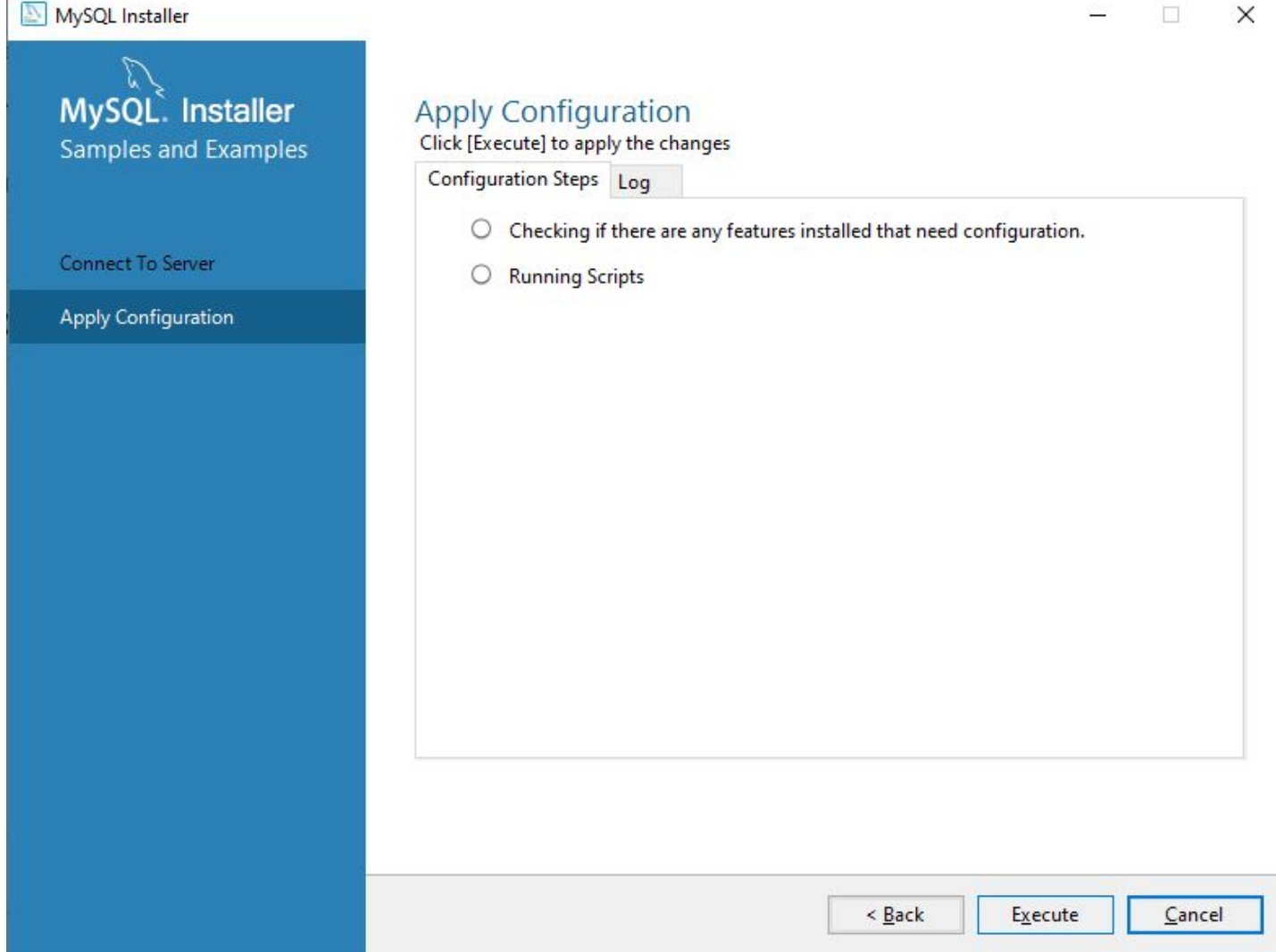
User name: Credentials provided in Server configuration

Password:

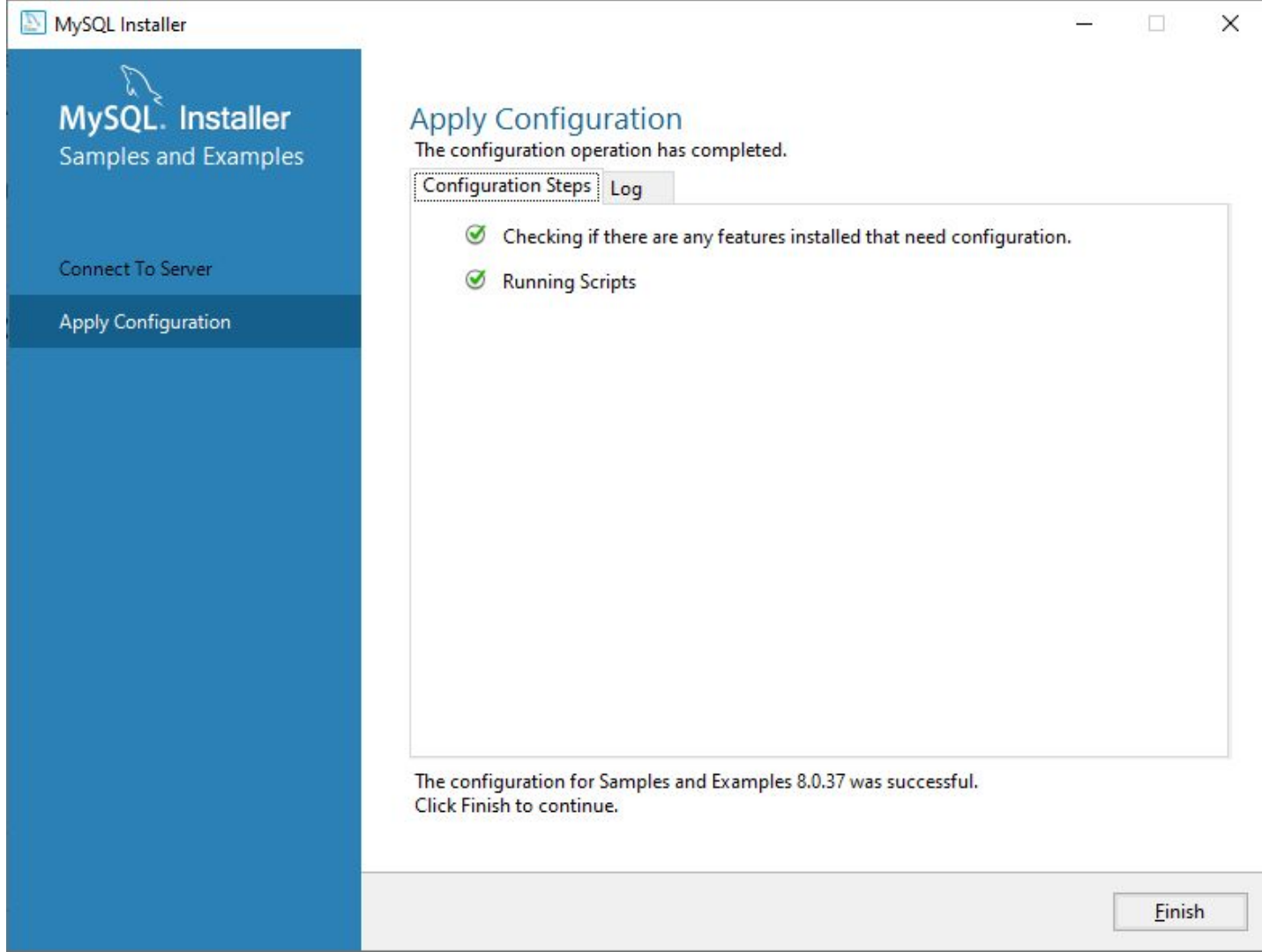
Check

Next > Cancel

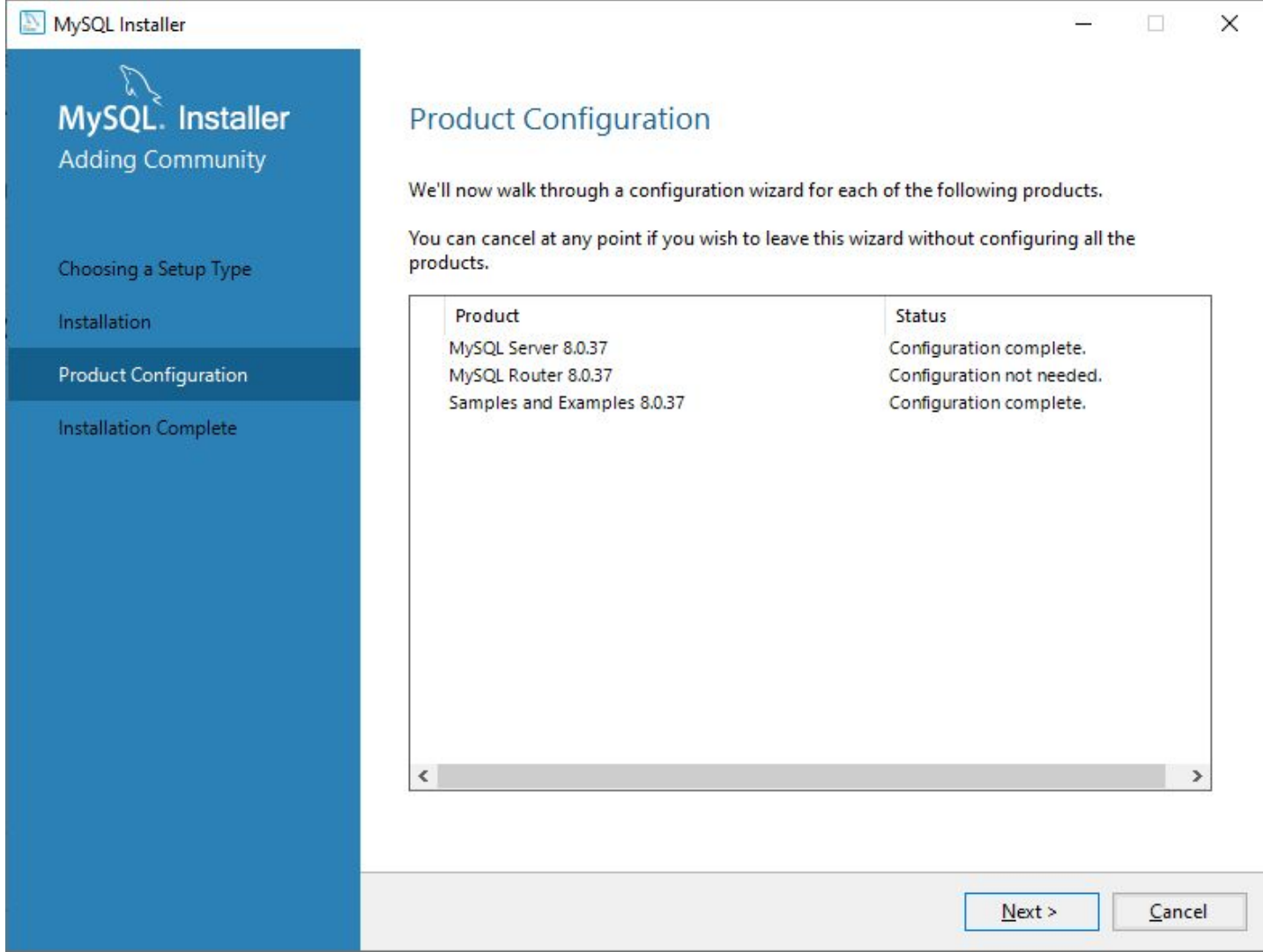
Apply the
configuration



watch

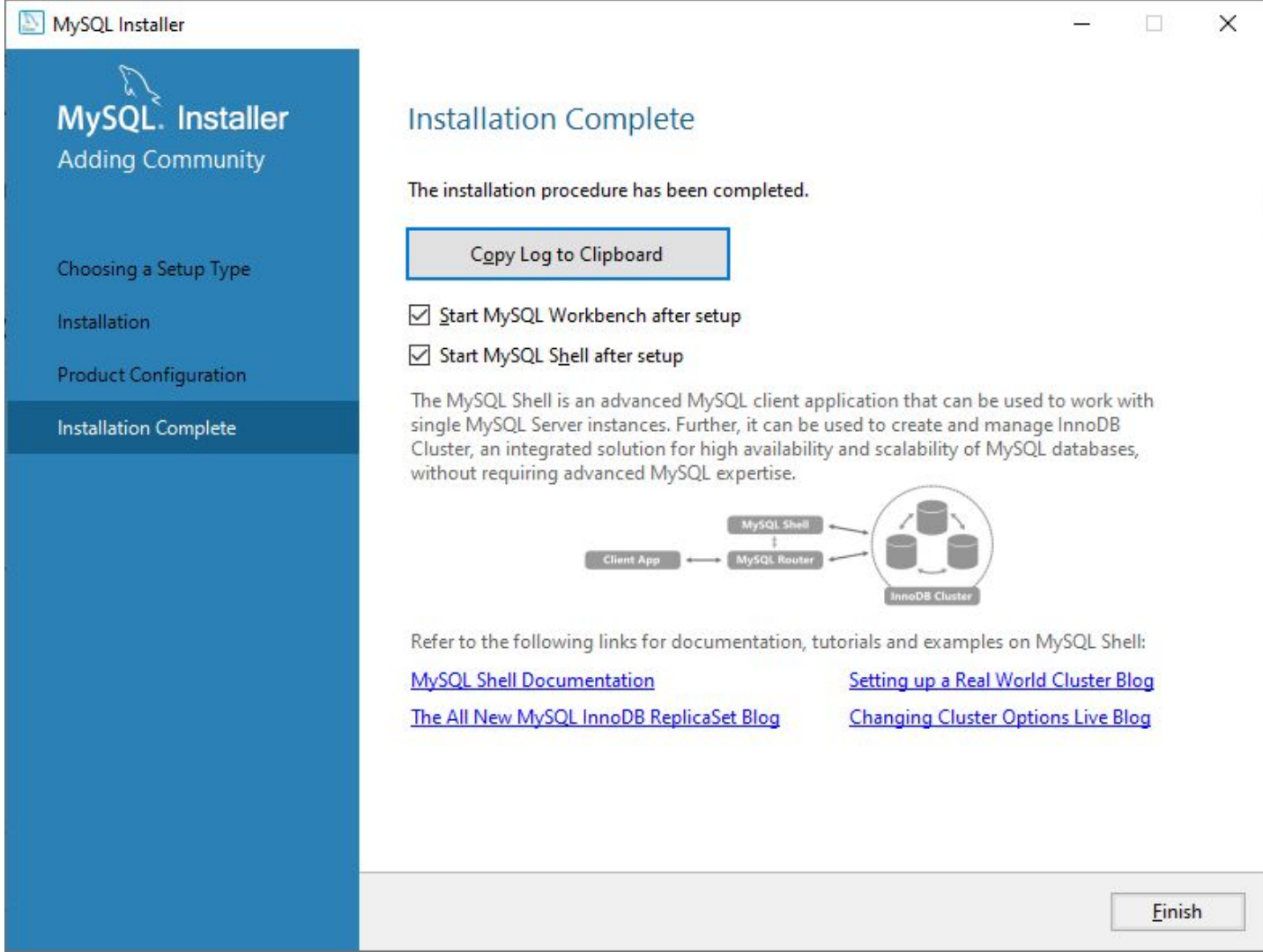


The configuration must complete without errors

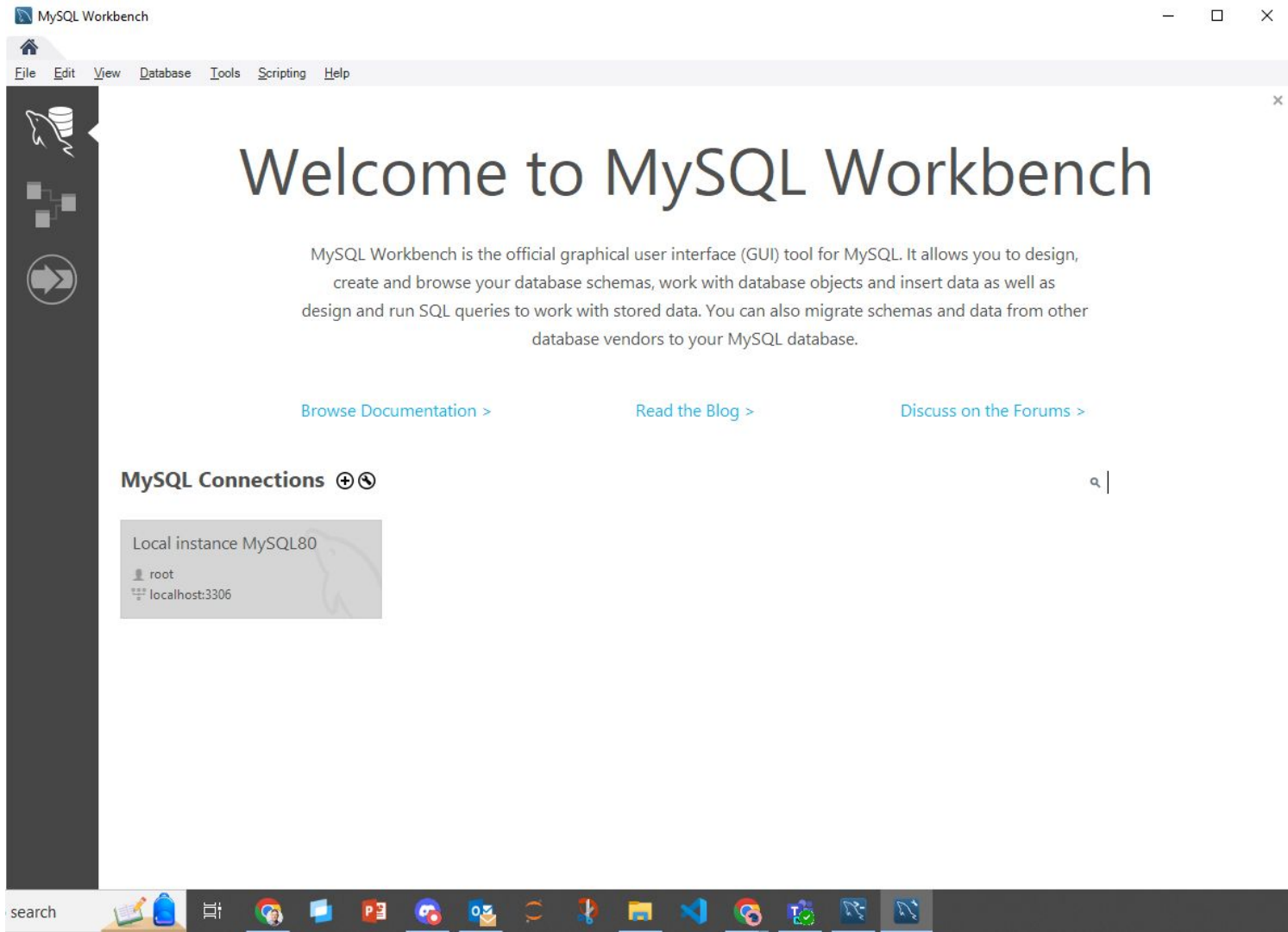


Choose to start
the Workbench


Starting the
shell is optional



Click on the local
instance
connection when
prompted



Enter your password



Connect to MySQL Server

Please enter password for the following service:

Service: Mysql@localhost:3306

User: root

Password:

☒ Save password in vault

Create a new schema by clicking on the highlighted icon

MySQL Workbench

Local instance MySQL80 x

File Edit View Query Database Server Tools Scripting Help

Navigator: Query 1 Administration - Server Status new_schema - Schema x

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

Administration Schemas

Information: No object selected

Create a new schema in the connected server

schema

Rename References

Charset/Collation: Default Charset Default Collation

Specify the name of

Refactor model, changing all references

The character set and

Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.

Schema

Apply Revert

Output

Action Output

#	Time	Action	Message	Duration / Fetch
---	------	--------	---------	------------------

Object Info Session

Context Help Snippets

Change the name to
simple_address_book

MySQL Workbench

Local instance MySQL80 x

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

Administration Schemas

Information: No object selected

Object Info Session

Query 1 Administration - Server Status Simple_Address_Book - Schema x

Name: Simple_Address_Book

Rename References

Charset/Collation: Default Charset Default Collation

Specify the name of

Refactor model, changing all references

The character set and

SQLAdditions

Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.

Schema

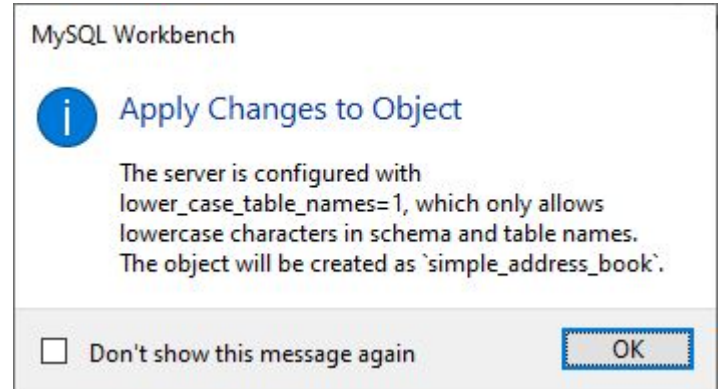
Apply Revert

Output

Action Output

#	Time	Action	Message	Duration / Fetch
---	------	--------	---------	------------------

By default MySQL wants lowercase schema and table names



Create the database
after reviewing the
sql code that
actually generates it

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 `simple_address_book` ;
2

<

>

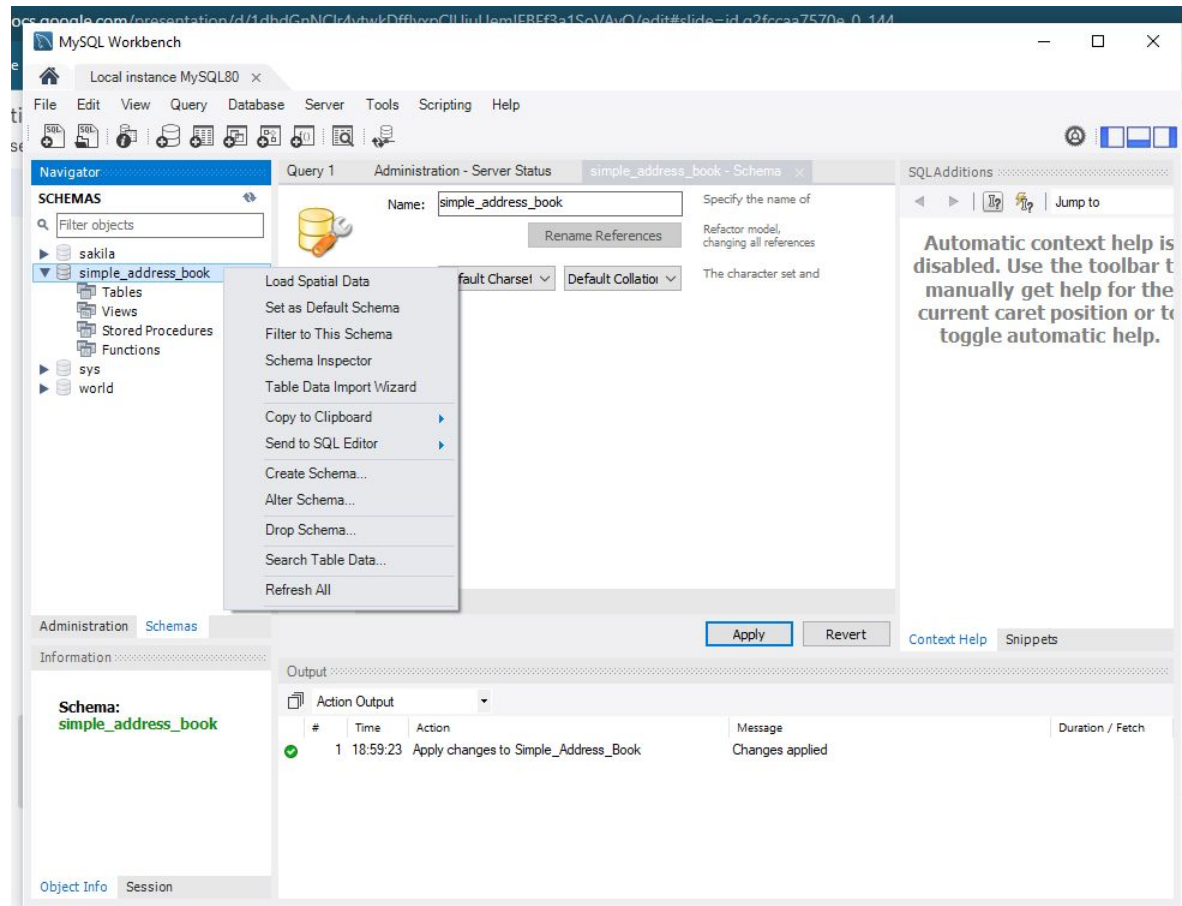
Back

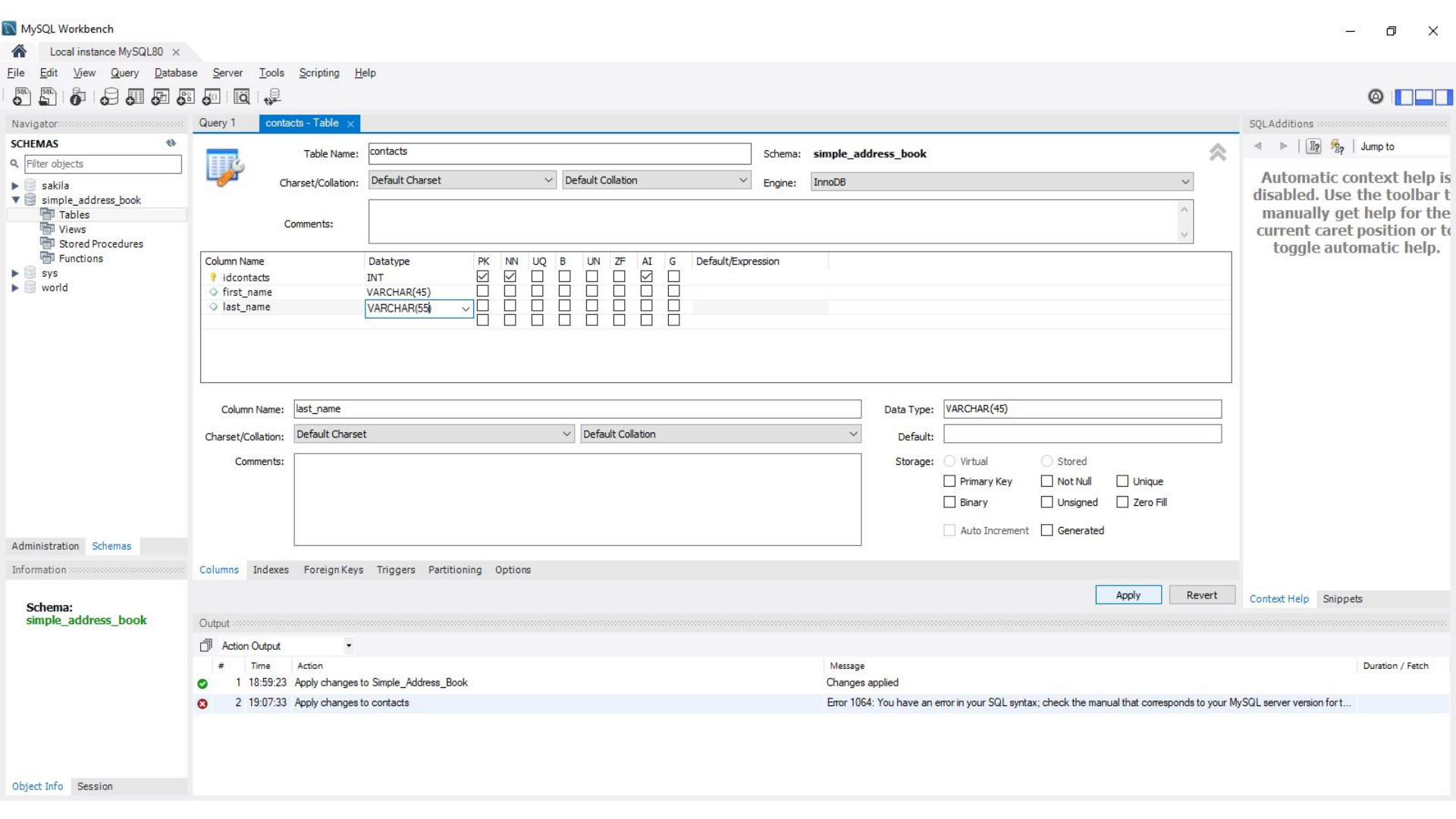
Apply

Cancel

Review your changes
In Navigator
And add the contacts
Table

See next page





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 TABLE `simple_address_book`.`contacts` (  
2   `idcontacts` INT NOT NULL AUTO_INCREMENT,  
3   `first_name` VARCHAR(45) NULL,  
4   `last_name` VARCHAR(55) NULL,  
5   PRIMARY KEY (`idcontacts`));  
6
```



Back

Apply

Cancel

Capture a screenshot and submit for assignment credit. Your screenshot must include the metadata for the new Contact table you just created. The Schema Navigator on the left must show the Contact table in the simple_address_book schema.

MySQL Workbench

Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHEMAS

Filter objects

sakila

simple_address_book

Tables

contacts

Columns

idcontacts

first_name

last_name

Indexes

Foreign Keys

Triggers

Views

Stored Procedures

Functions

sys

world

Administration

Schemas

Information

Schema: simple_address_book

Object Info

Session

Query 1

contacts - Table

Table Name: contacts

Schema: simple_address_book

Charset/Collation: utf8mb4 utf8mb4_0900_ai_ci

Engine: InnoDB

Comments:

Column Name	Datatype	PK	NN	UQ	B	UN	ZF	AI	G	Default/Expression
idcontacts	INT	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
first_name	VARCHAR(45)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	NULL
last_name	VARCHAR(55)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	NULL

Column Name: last_name

Charset/Collation: Default Charset Default Collation

Comments:

Data Type: VARCHAR(55)

Default: NULL

Storage: ☐ Virtual ☐ Stored

☐ Primary Key ☐ Not Null ☐ Unique

☐ Binary ☐ Unsigned ☐ Zero Fill

☐ Auto Increment ☐ Generated

Columns

Indexes

Foreign Keys

Triggers

Partitioning

Options

Apply

Revert

Context Help

Snippets

Output

Action Output

#	Time	Action	Message	Duration / Fetch
1	18:59:23	Apply changes to Simple_Address_Book	Changes applied	
2	19:07:33	Apply changes to contacts	Error 1064: You have an error in your SQL syntax; check the manual that corresponds to your MySQL server ver...	
3	19:14:34	Apply changes to contacts	Changes applied	

SQLAdditions

Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.