



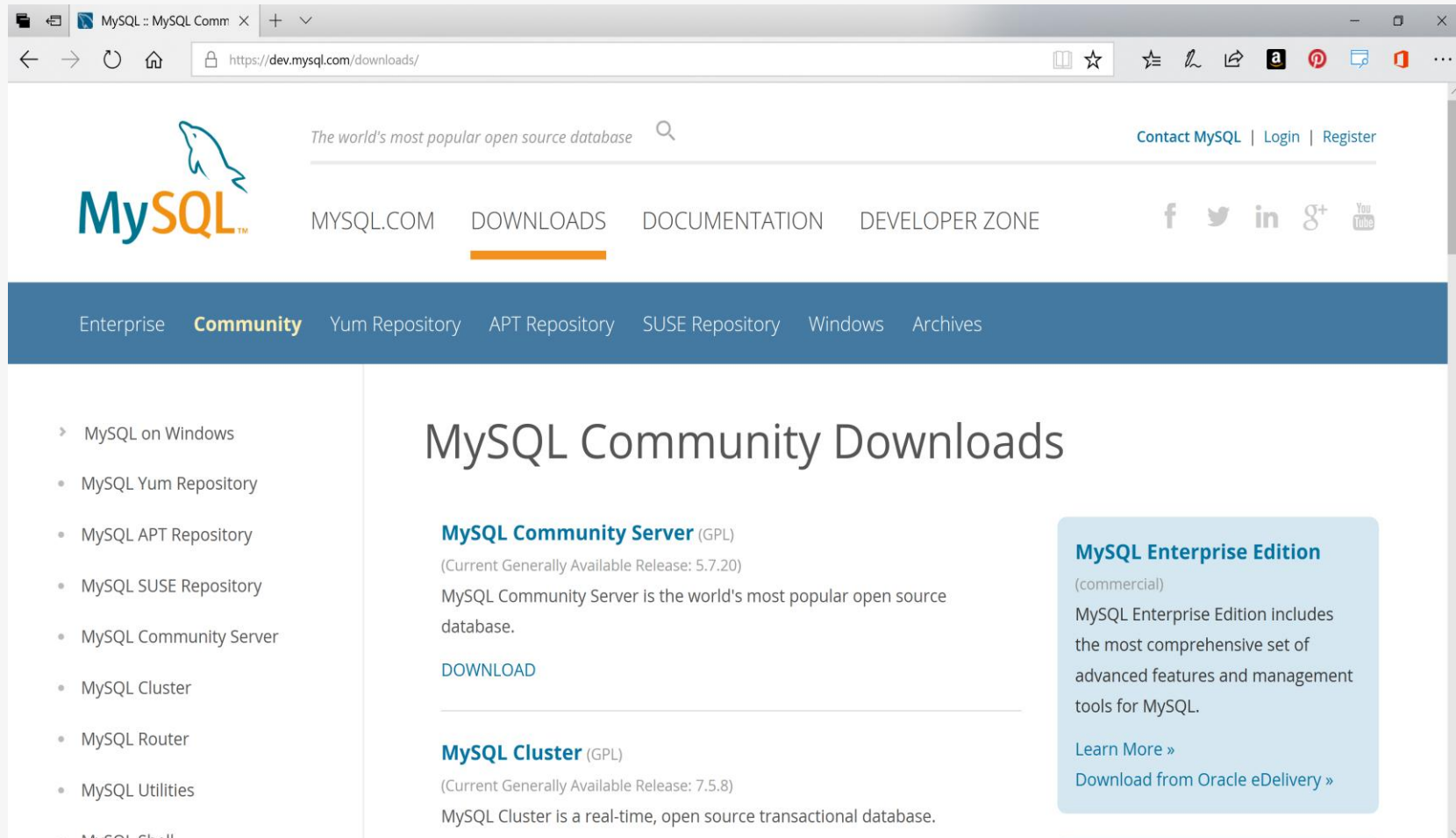
Installatie en configuratie MySQL omgeving.

Praktisch

Voor de oefeningen en voorbeelden wordt gebruik gemaakt van **MySQL Community Server** en **MySQL workbench**.

- Installatie:
 - <http://dev.mysql.com/downloads/mysql/>
 - <http://www.mysql.com/products/workbench/>
- Documentatie:
 - <http://dev.mysql.com/doc/workbench/en/>


Download MySQL Community








The screenshot shows a web browser window with the URL <https://dev.mysql.com/downloads/>. The page features the MySQL logo and the tagline "The world's most popular open source database". The navigation bar includes links to MySQL.COM, DOWNLOADS (which is highlighted with an orange underline), DOCUMENTATION, and DEVELOPER ZONE. Below the navigation bar, there is a blue header with links to Enterprise, Community (highlighted), Yum Repository, APT Repository, SUSE Repository, Windows, and Archives. The main content area is titled "MySQL Community Downloads". On the left, there is a sidebar with a list of links: MySQL on Windows, MySQL Yum Repository, MySQL APT Repository, MySQL SUSE Repository, MySQL Community Server, MySQL Cluster, MySQL Router, MySQL Utilities, and MySQL Shell. The main content area contains two sections: "MySQL Community Server (GPL)" and "MySQL Cluster (GPL)". The "MySQL Community Server" section includes the text "(Current Generally Available Release: 5.7.20)" and "MySQL Community Server is the world's most popular open source database." Below this is a blue link labeled "DOWNLOAD". The "MySQL Cluster" section includes the text "(Current Generally Available Release: 7.5.8)" and "MySQL Cluster is a real-time, open source transactional database." To the right of these sections is a blue box titled "MySQL Enterprise Edition (commercial)" which contains the text "MySQL Enterprise Edition includes the most comprehensive set of advanced features and management tools for MySQL." Below this text are two links: "Learn More »" and "Download from Oracle eDelivery »".

MySQL: MySQL Comm x + v

← → ↻ 🏠 🔒 <https://dev.mysql.com/downloads/> ☆ ⚙️ 📄 📧 📧 📧 📧 📧 ...

 The world's most popular open source database 🔍 [Contact MySQL](#) | [Login](#) | [Register](#)

MYSQL.COM DOWNLOADS DOCUMENTATION DEVELOPER ZONE     

Enterprise **Community** Yum Repository APT Repository SUSE Repository Windows Archives

› MySQL on Windows

- MySQL Yum Repository
- MySQL APT Repository
- MySQL SUSE Repository
- MySQL Community Server
- MySQL Cluster
- MySQL Router
- MySQL Utilities
- MySQL Shell

MySQL Community Downloads

MySQL Community Server (GPL)
(Current Generally Available Release: 5.7.20)
MySQL Community Server is the world's most popular open source database.
[DOWNLOAD](#)

MySQL Cluster (GPL)
(Current Generally Available Release: 7.5.8)
MySQL Cluster is a real-time, open source transactional database.

MySQL Enterprise Edition
(commercial)
MySQL Enterprise Edition includes the most comprehensive set of advanced features and management tools for MySQL.
[Learn More »](#)
[Download from Oracle eDelivery »](#)

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Download MySQL Community

- Download MSI installer

Generally Available (GA) Releases

MySQL Installer 8.0.12

Select Operating System:

Microsoft Windows

Looking for a different version? [View all GA releases](#)

Windows (x86, 32-bit), MSI Installer

8.0.12

15.9M

[Download](#)

(mysql-installer-web-community-8.0.12.0.msi)

MD5: 387bd57f0fb07e3880d10f0c21b81686 | [Signature](#)

Windows (x86, 32-bit), MSI Installer

8.0.12

273.4M

[Download](#)

(mysql-installer-community-8.0.12.0.msi)

MD5: 53b3a9bb89db061862969b67c68b6f67 | [Signature](#)



We suggest that you use the [MD5 checksums](#) and [GnuPG signatures](#) to verify the integrity of the packages you download.

Download MySQL Community

- Negeer sign-up

Login Now or Sign Up for a free account.

An Oracle Web Account provides you with the following advantages:

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

Login »

using my Oracle Web account

Sign Up »

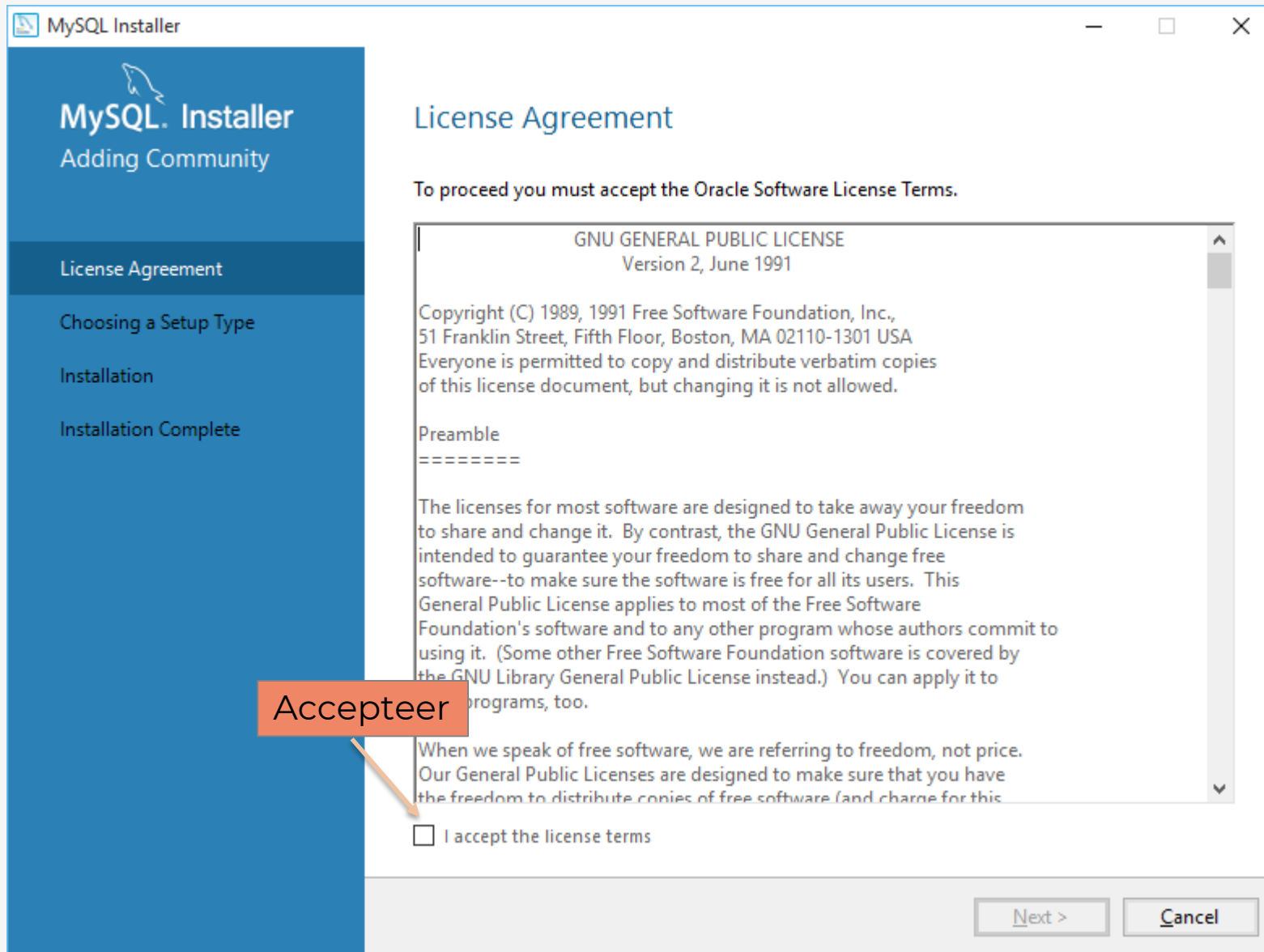
for an Oracle Web account

MySQL.com is using Oracle SSO for authentication. If you already have an Oracle Web account, click the Login link. Otherwise, you can signup for a free account by clicking the Sign Up link and following the instructions.



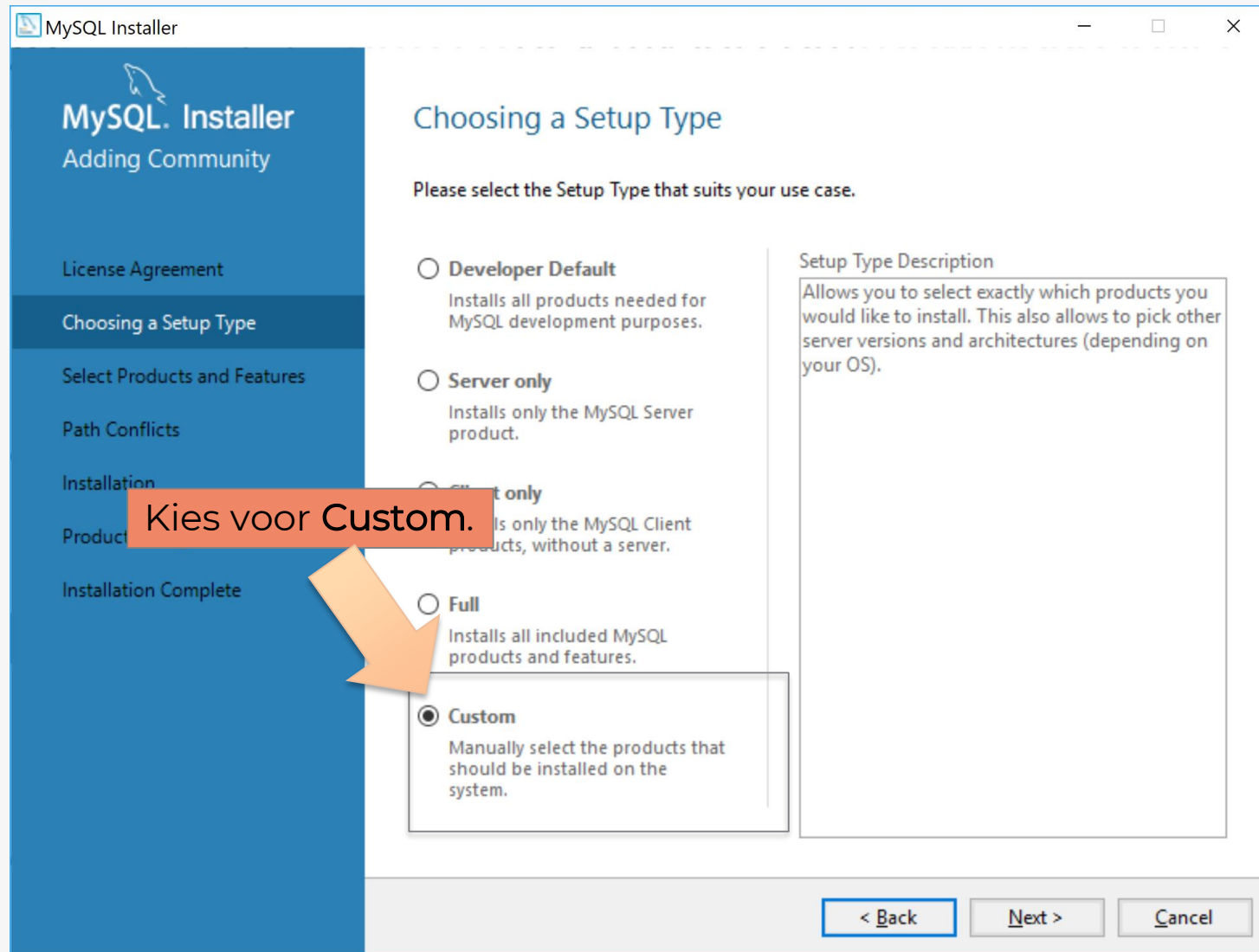
[No thanks, just start my download.](#)

Installatie



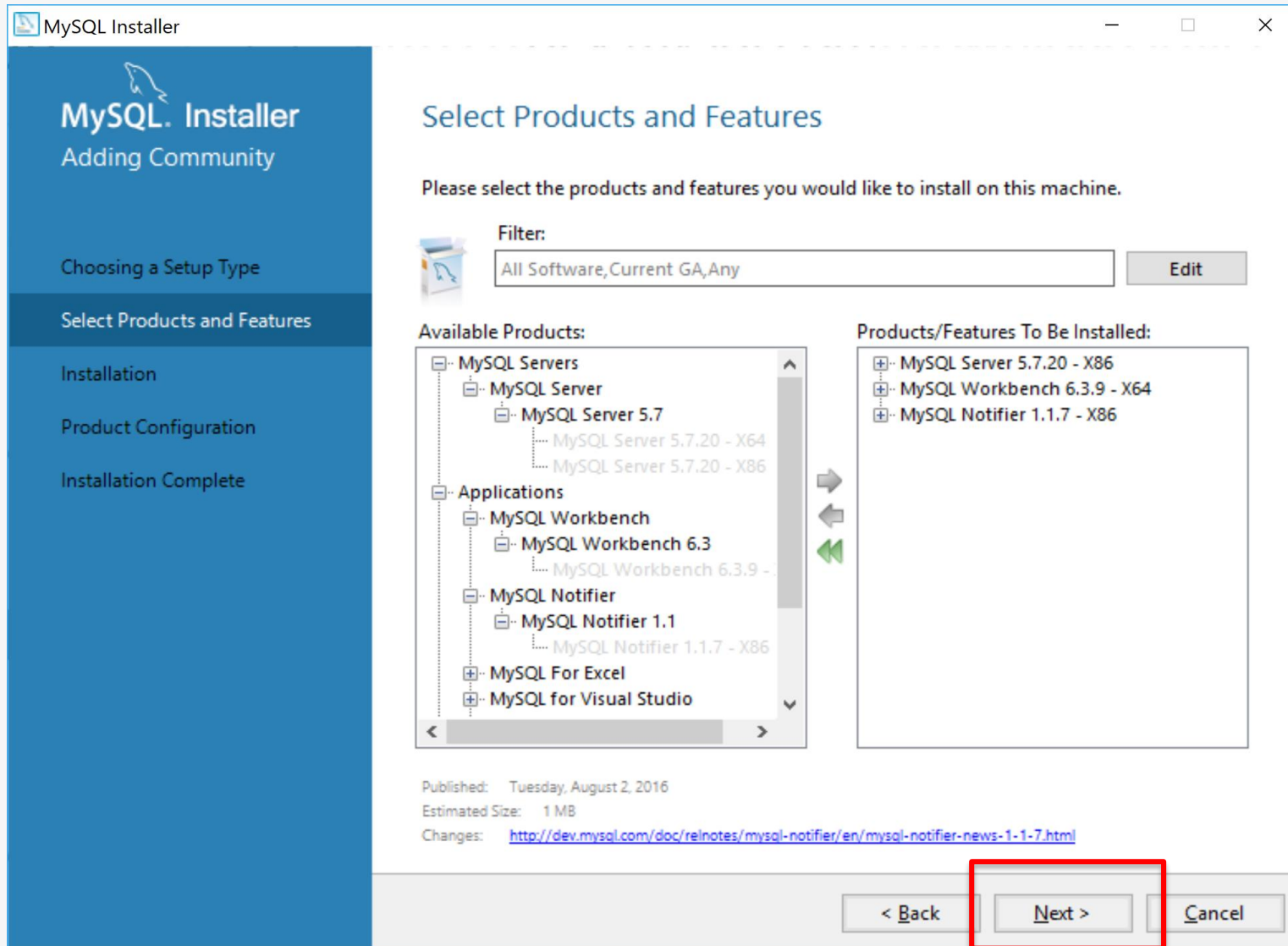
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Installatie



Installatie

Voeg de noodzakelijke componenten toe en klik op Next.

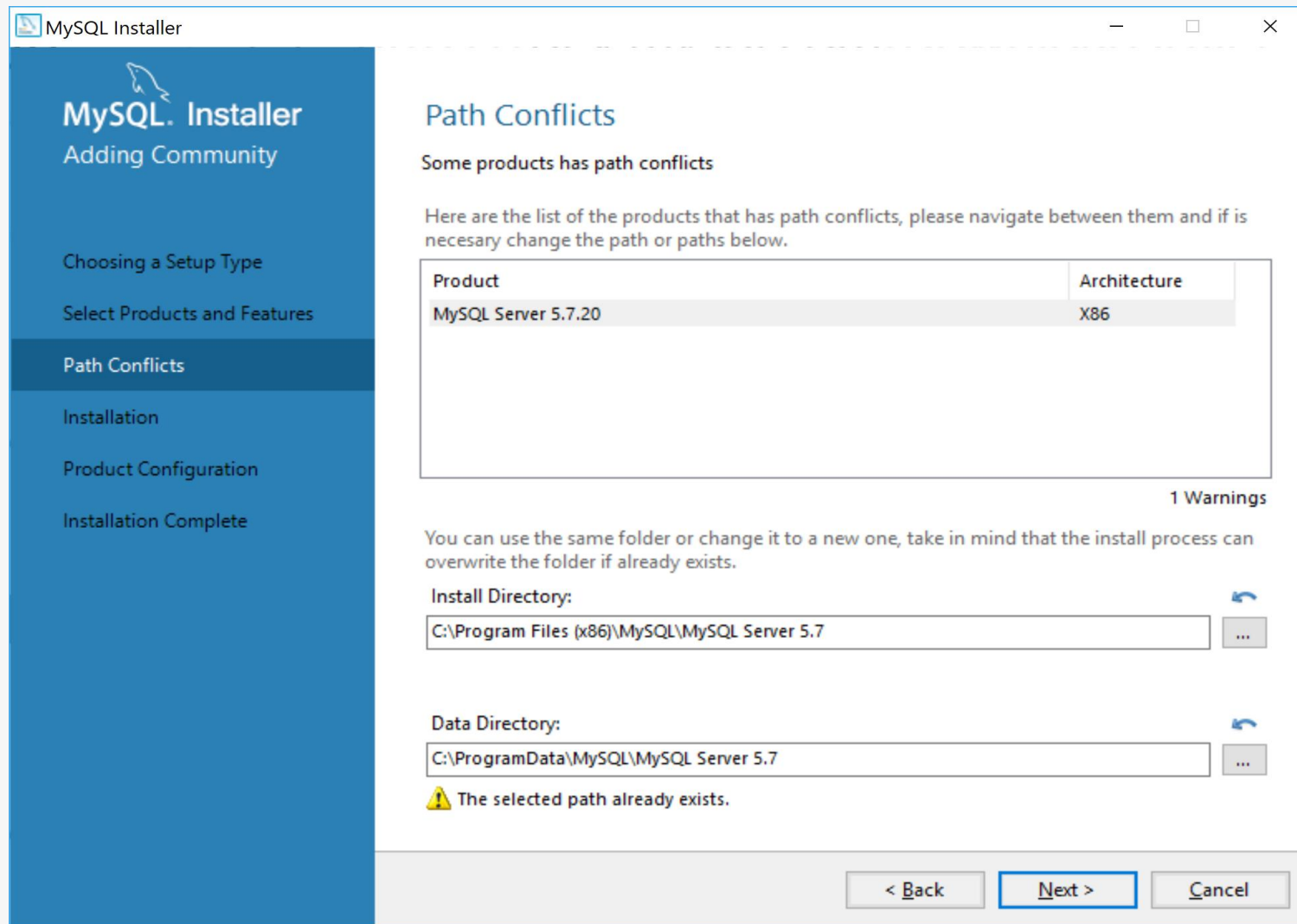


PS: momenteel is het versie 8.0 voor de Workbench en Server; 1.1.7 voor de Notifier

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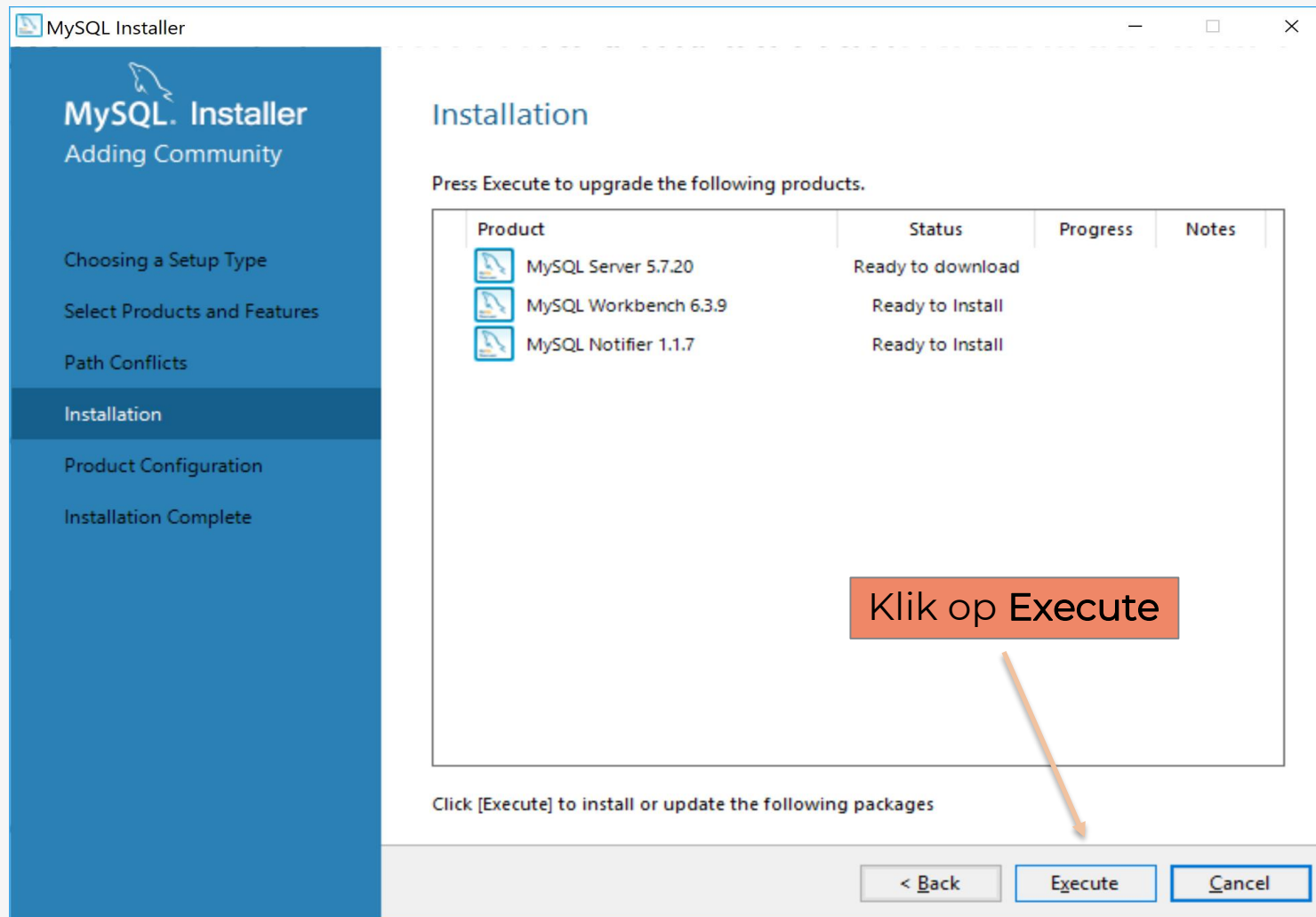
Installatie

Mogelijke warning indien je reeds een MySQL versie hebt

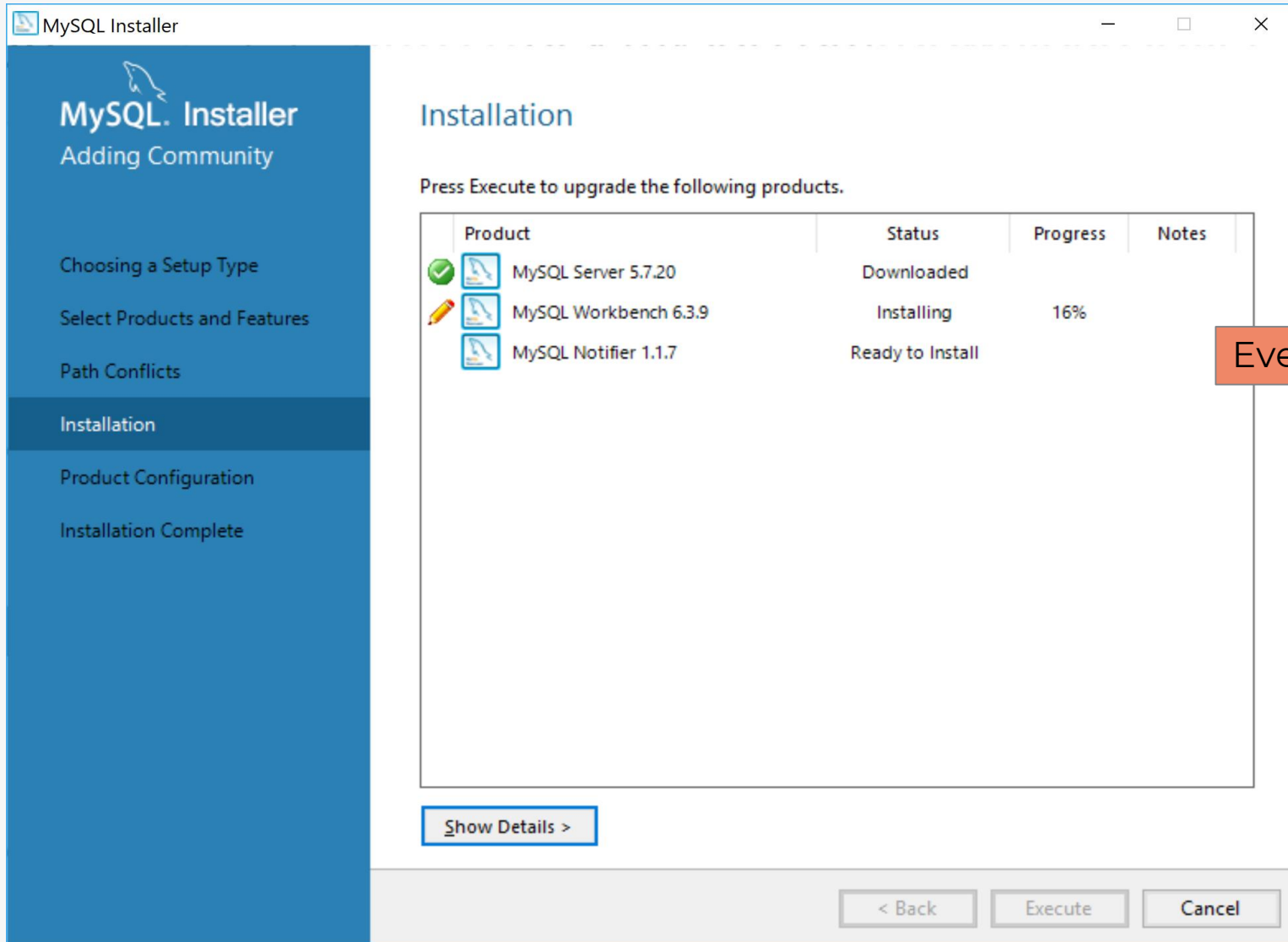


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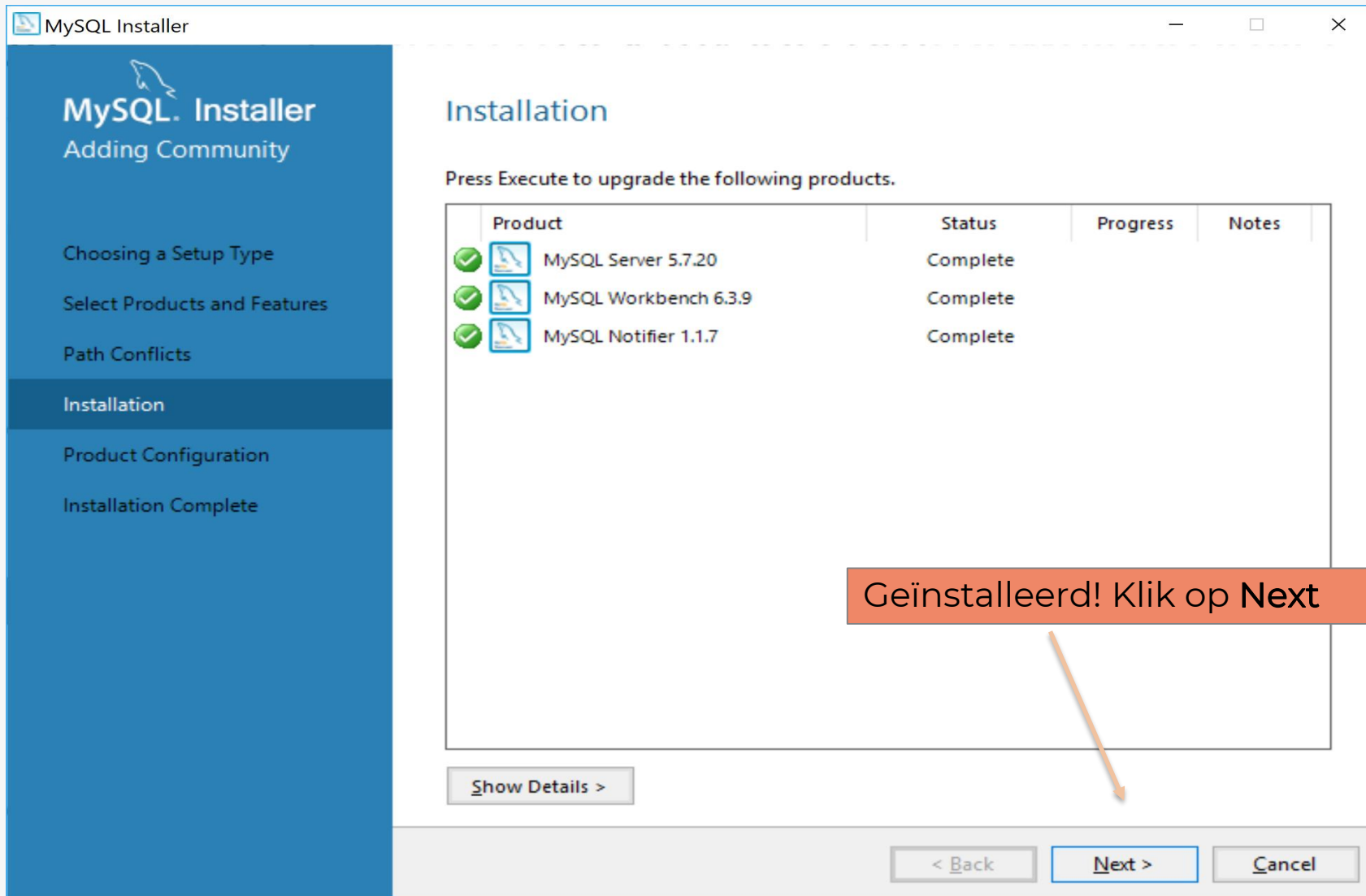
Installatie



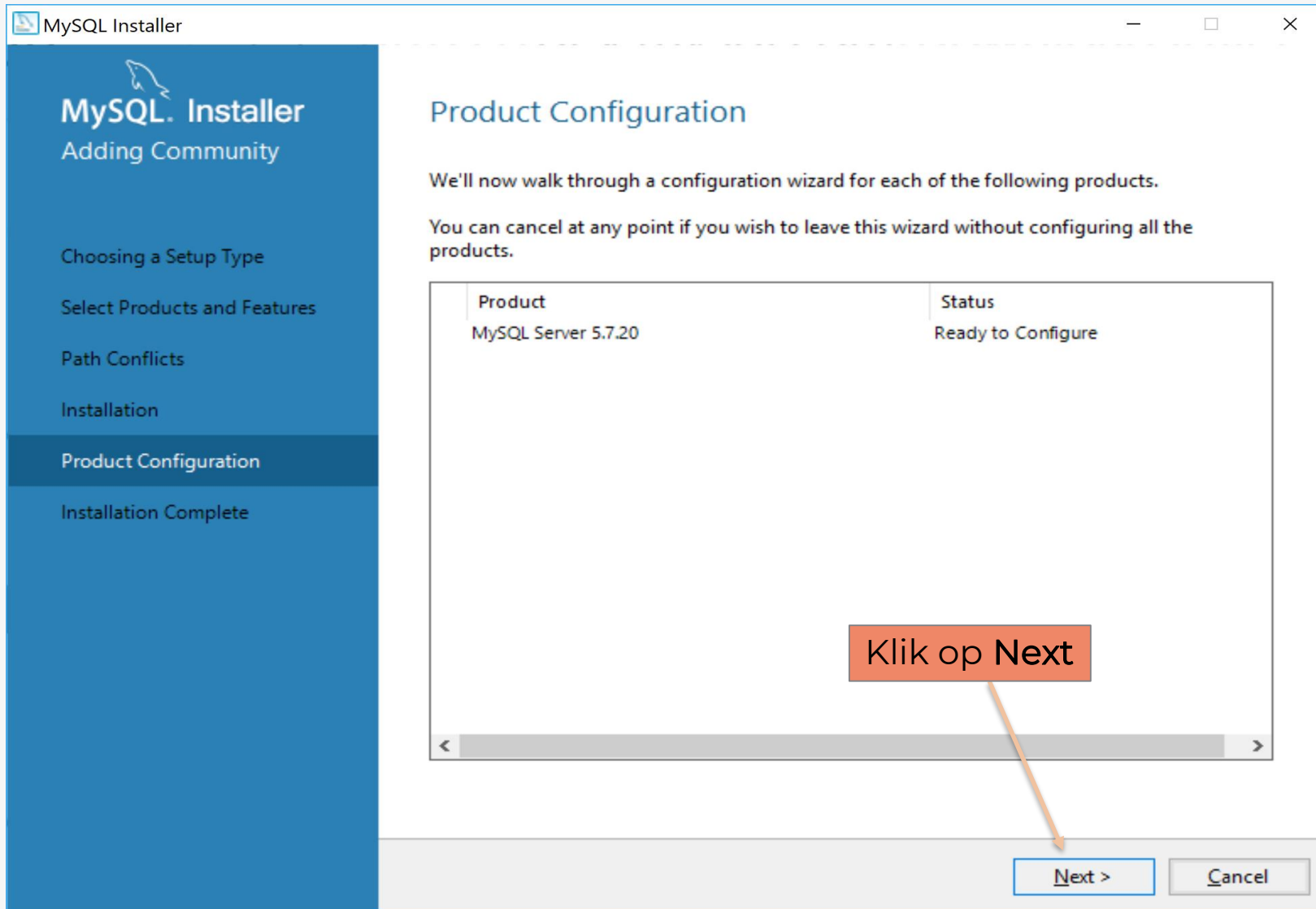
Installatie



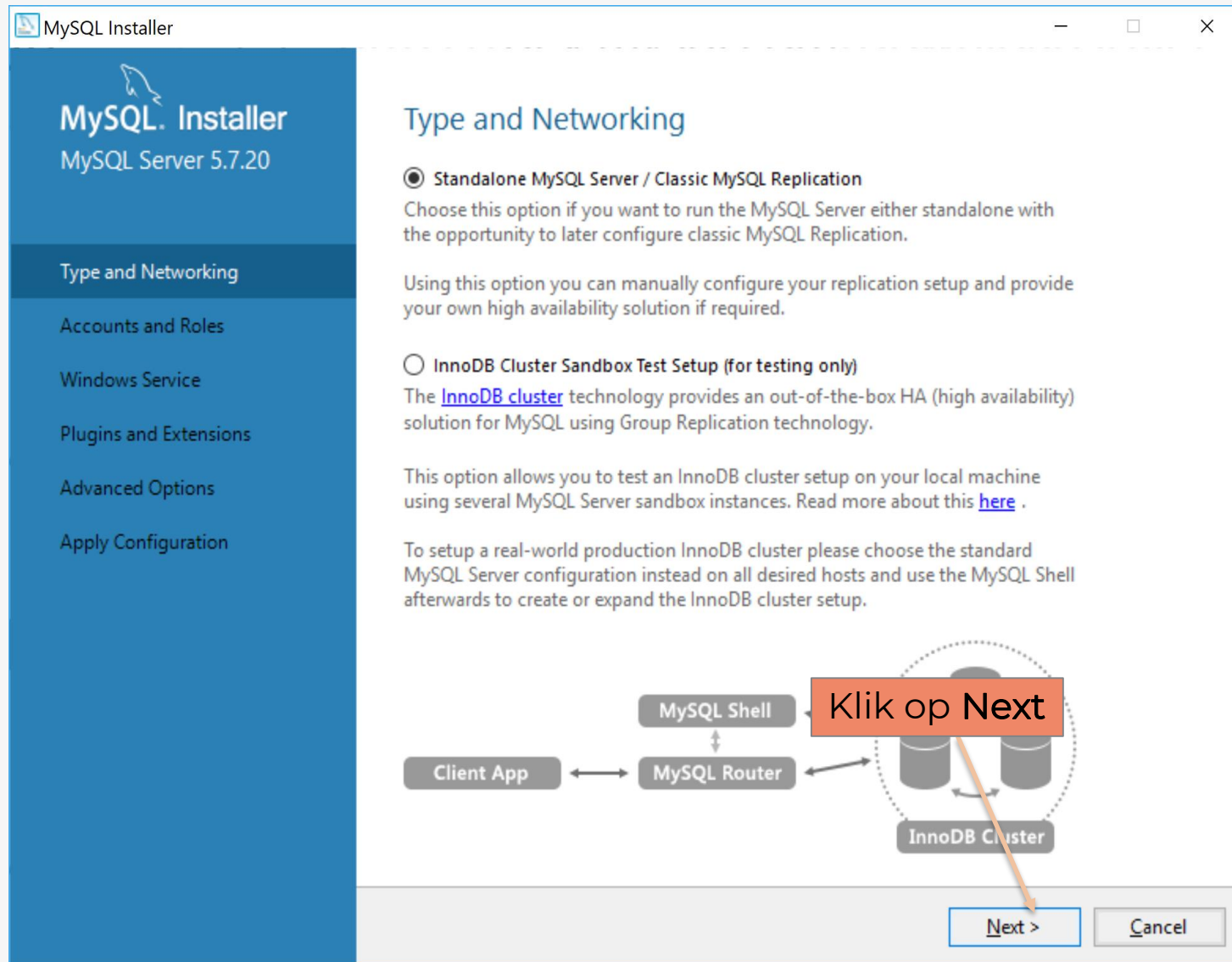
Installatie



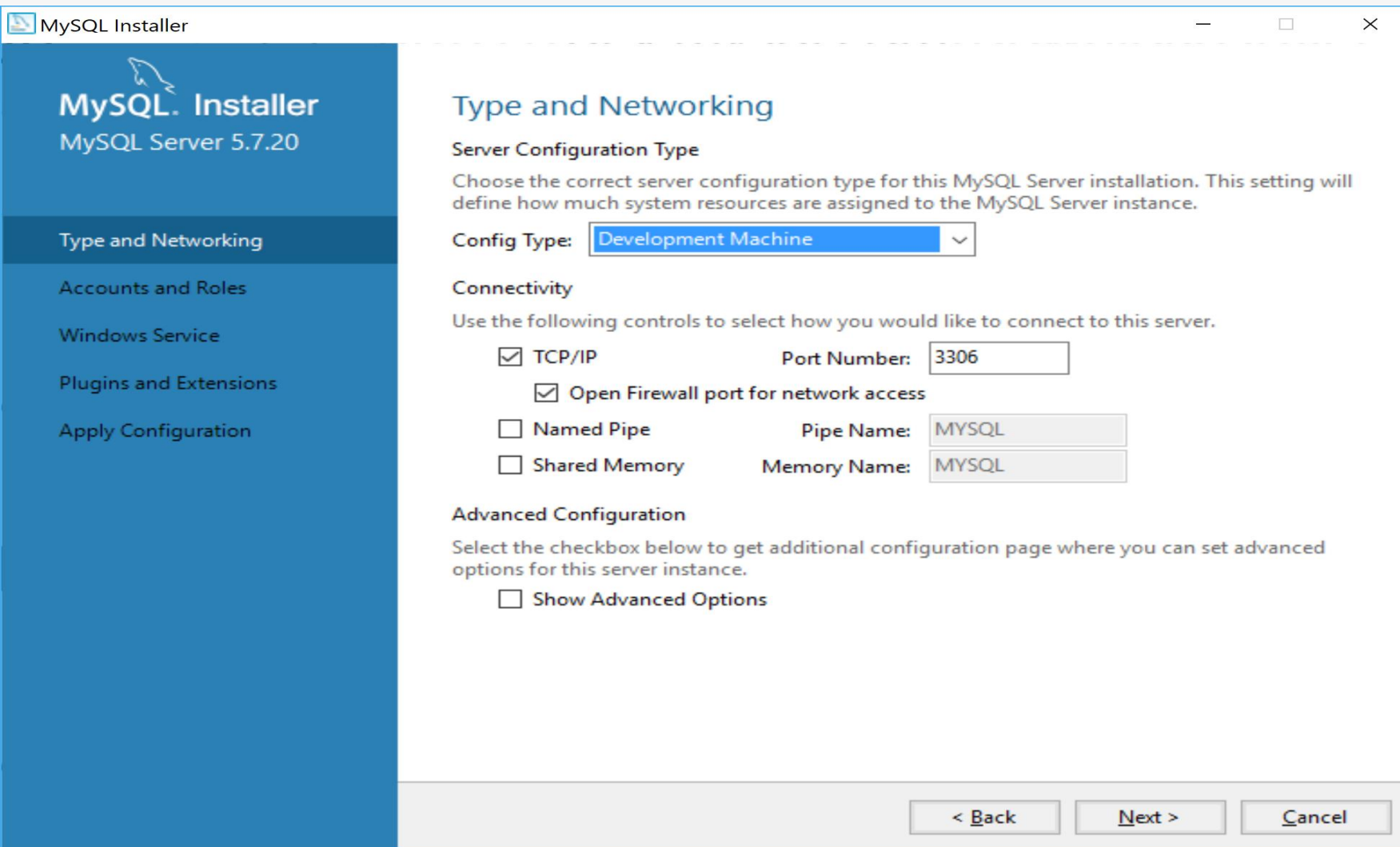
Configuratie



Configuratie



Configuratie



The image shows a screenshot of the MySQL Installer window. The title bar reads 'MySQL Installer'. The left sidebar contains the following menu items: 'MySQL. Installer MySQL Server 5.7.20', 'Type and Networking' (which is highlighted), 'Accounts and Roles', 'Windows Service', 'Plugins and Extensions', and 'Apply Configuration'. The main content area is titled 'Type and Networking' and contains the following sections:

- 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 Machine (dropdown menu)
- Connectivity**

Use the following controls to select how you would like to connect to this server.

 - ☒ TCP/IP Port Number: 3306
 - ☒ Open Firewall port for network access
 - ☐ Named Pipe Pipe Name: MYSQL
 - ☐ Shared Memory Memory Name: MYSQL
- Advanced Configuration**

Select the checkbox below to get additional configuration page where you can set advanced options for this server instance.

☐ Show Advanced Options

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

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Configuratie

MySQL Installer

MySQL Server 5.7.20

Type and Networking

Accounts and Roles

Windows Service

Plugins and Extensions

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.

Current Root Password:

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 Username	Host	User Role
----------------	------	-----------

[Add User](#)

[Edit User](#)

[Delete](#)

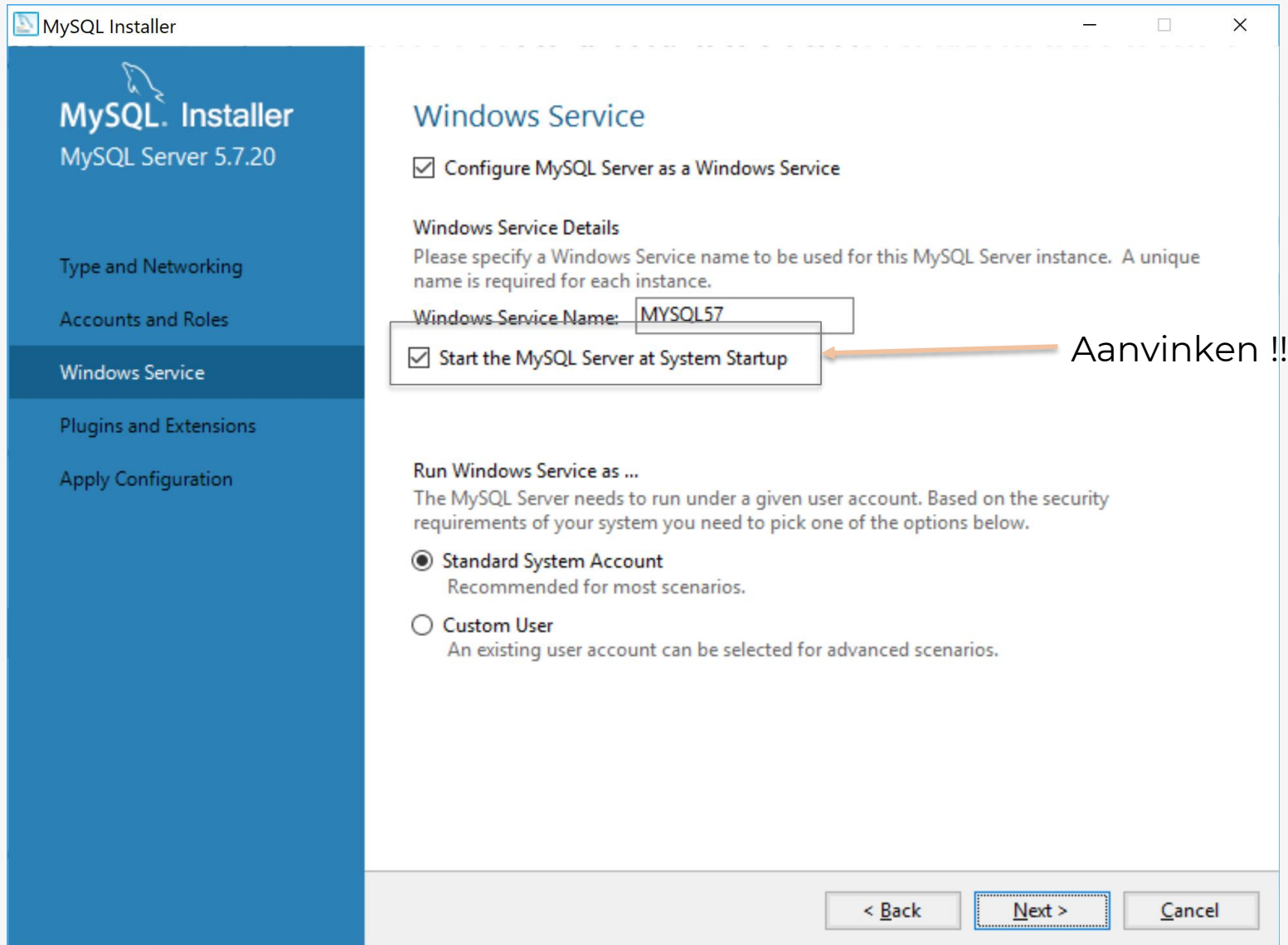
[< Back](#) [Next >](#) [Cancel](#)

Onthoud de gegevens !!
Bvb. root – root - root

Klik op Next

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Configuratie



MySQL Installer
MySQL Server 5.7.20

Type and Networking
Accounts and Roles
Windows Service
Plugins and Extensions
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:

☒ 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

Configuratie

MySQL Installer
MySQL Server 5.7.20

Type and Networking
Accounts and Roles
Windows Service
Plugins and Extensions
Apply Configuration

Plugins and Extensions

MySQL as a Document Store

Use the following controls to select how you would like to connect to this server.

☐ Enable X Protocol / MySQL as a Document Store

Port Number:

☐ Open Firewall port for network access

Starting with MySQL Server 5.7, MySQL supports document store development. In order to provide a complete document store/NoSQL experience there is a new communications protocol called the X Protocol. The expanded capabilities of the X Protocol enable us to provide modern developer APIs with features such as asynchronous calls, pipelining, and more. In addition to implementing document collections, the new X DevAPI also supports relational and combined document store/relational capabilities. Now developers, designers and DBAs can deploy MySQL databases that implement document store, relational, or hybrid document/relation models.

[Click here to view MySQL as a Document Store online documentation](#)

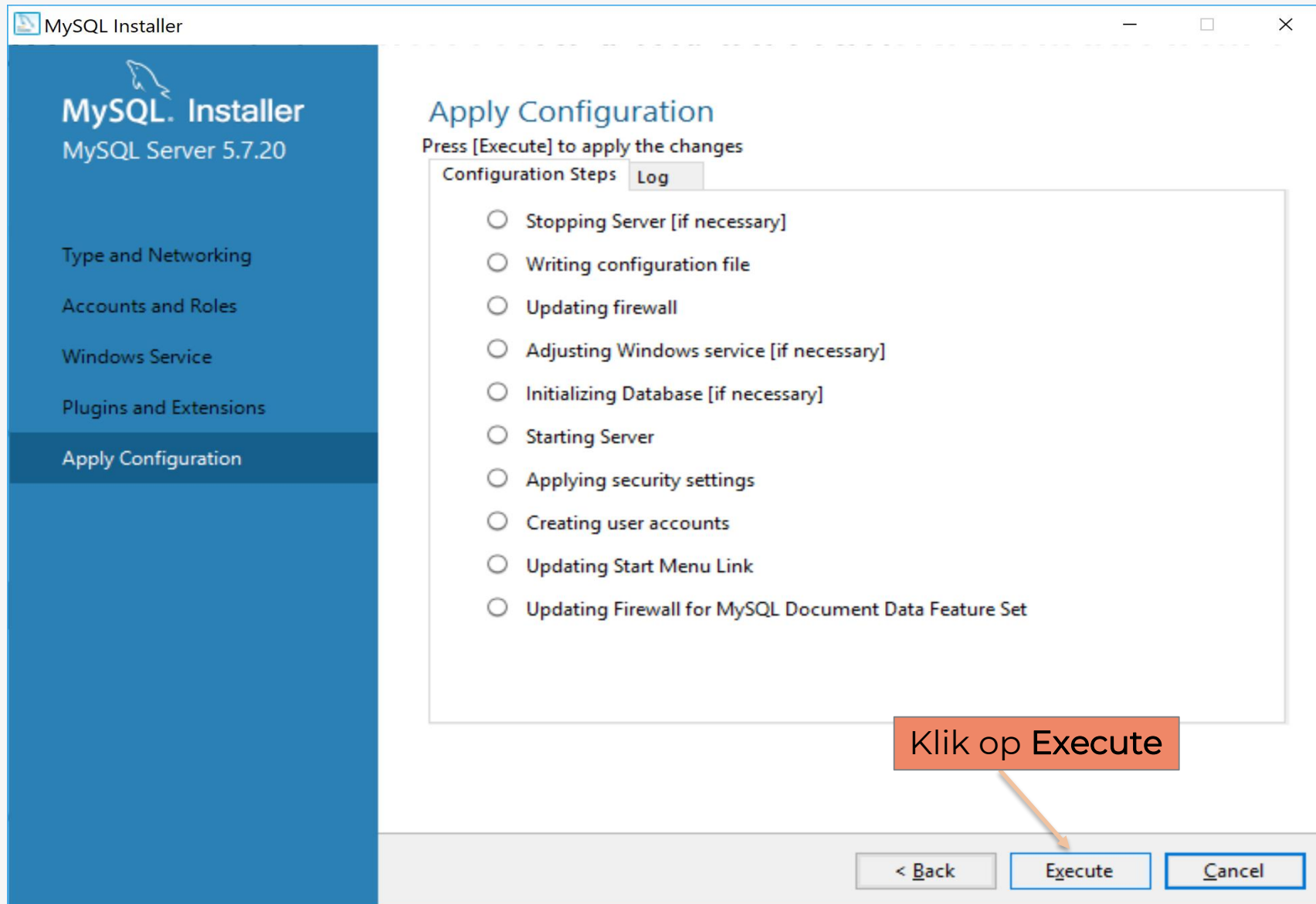
< Back **Next >** Cancel

Niet aanvinken

Klik op Next

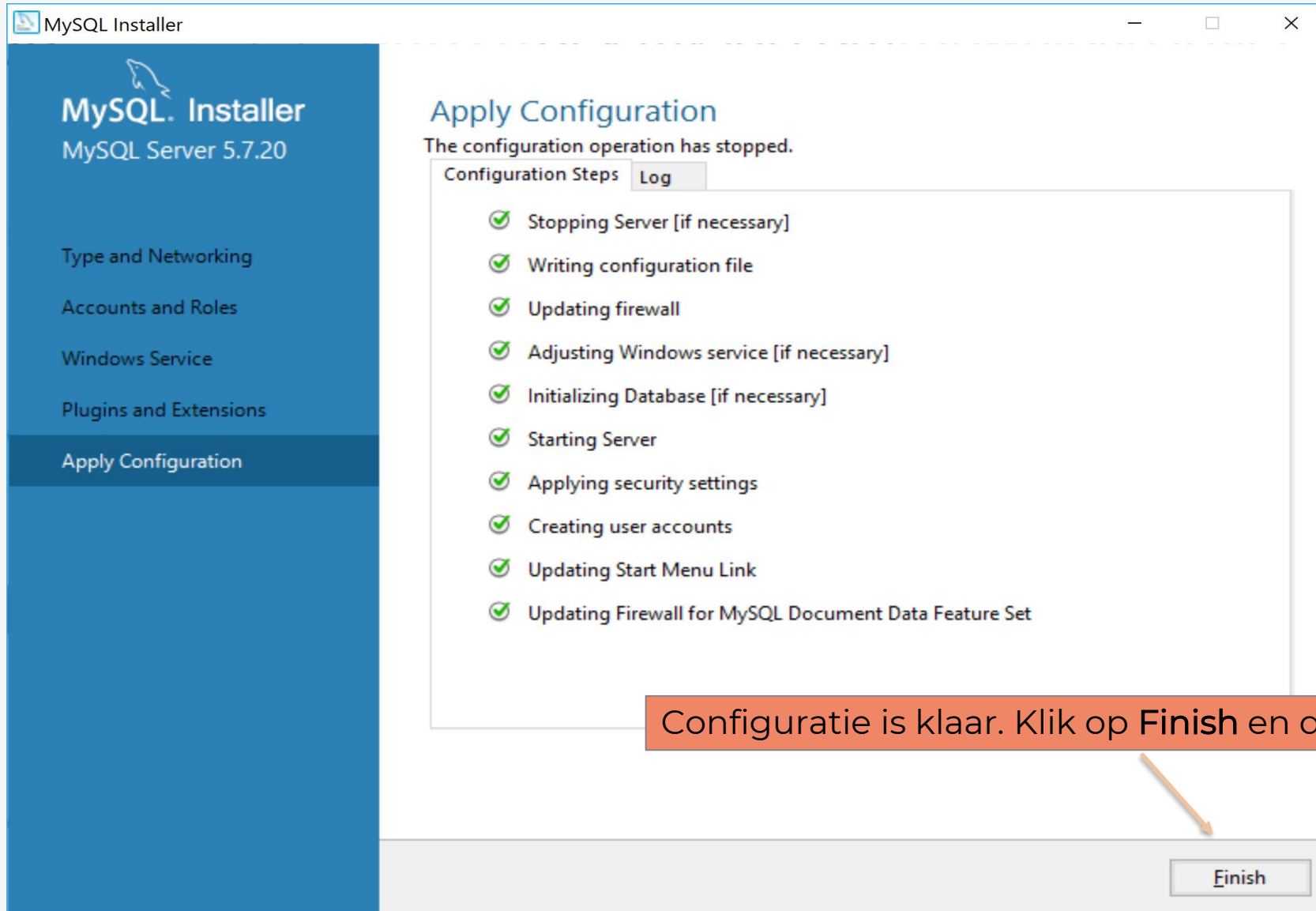
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Configuratie



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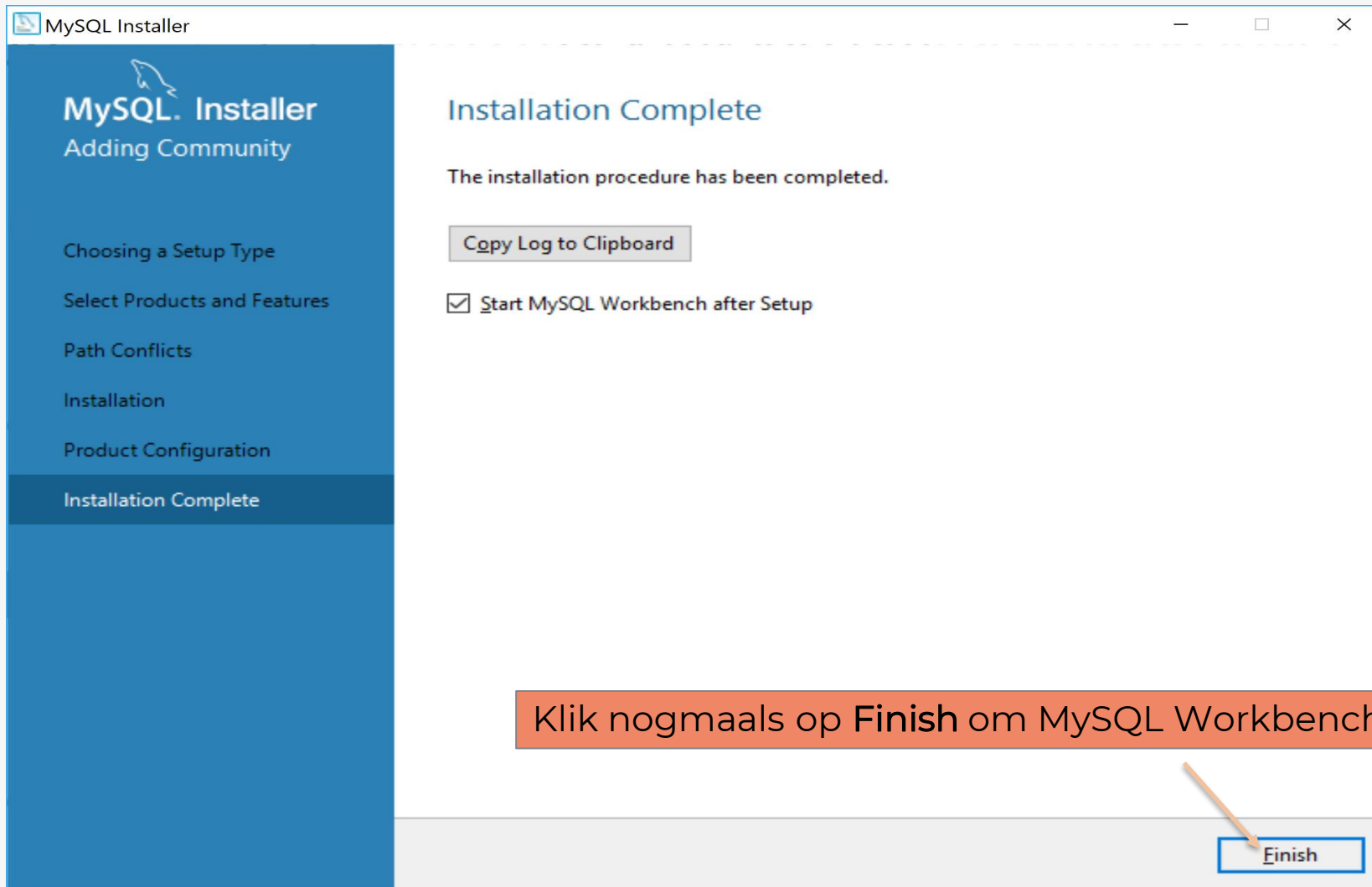
Configuratie



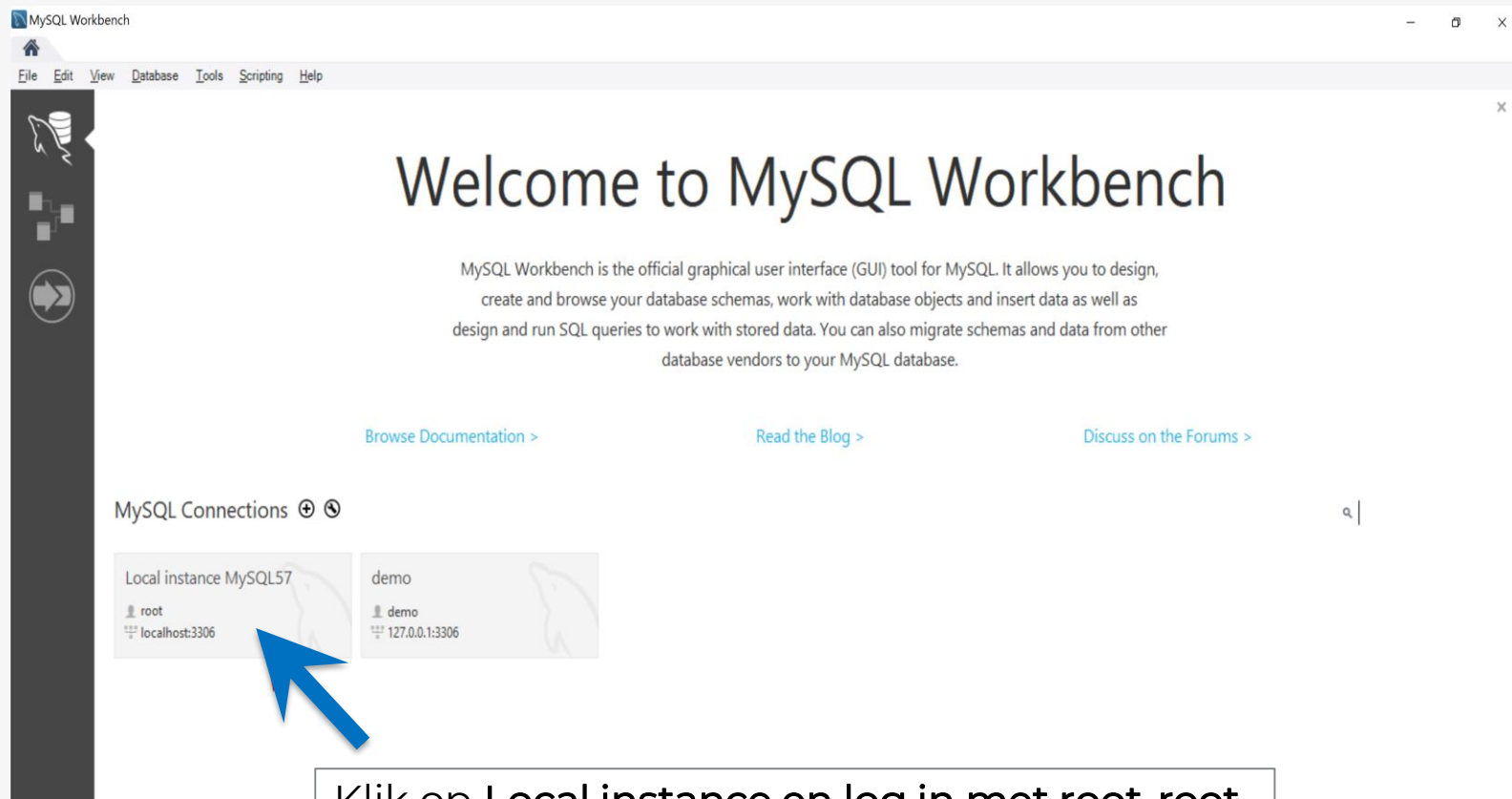
Configuratie is klaar. Klik op **Finish** en daarna op **Next**.

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Configuratie gedaan – start Workbench



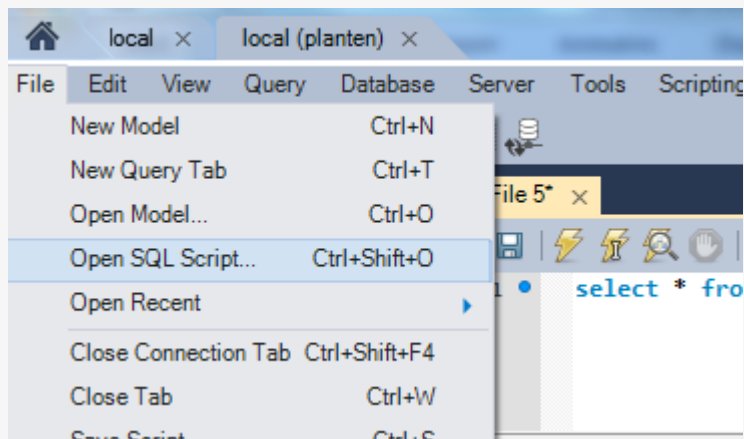
Workbench opstarten



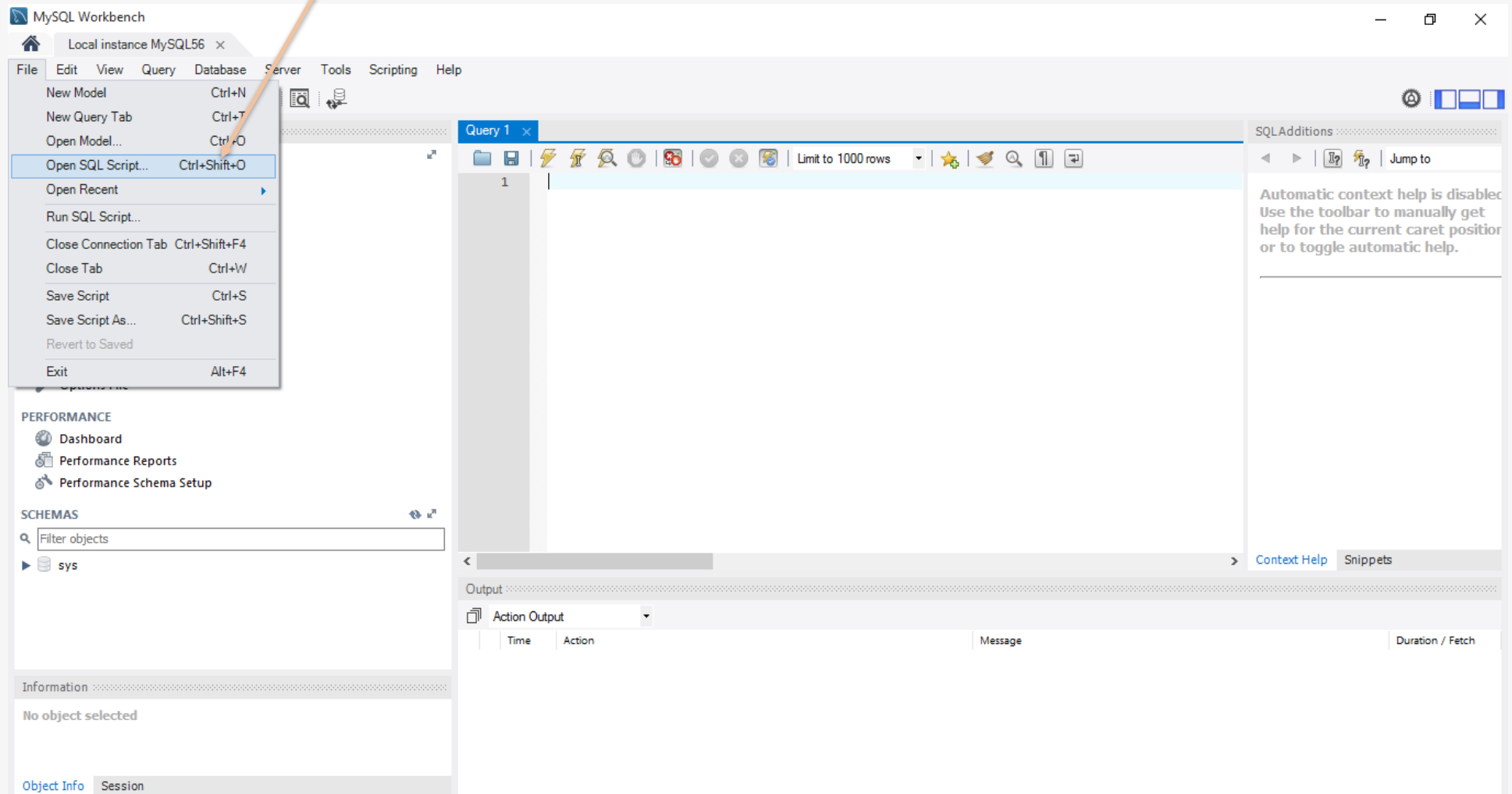
Klik op Local instance en log in met root-root.

Databank Planten

- Voor de oefeningen maak je gebruik van de **DB 'Planten'**
- Installatie van deze databank:
 - download het sql bestand (zie Chamilo)
 - importeer via MySQL workbench
 - File > Open SQL Script > Voer uit

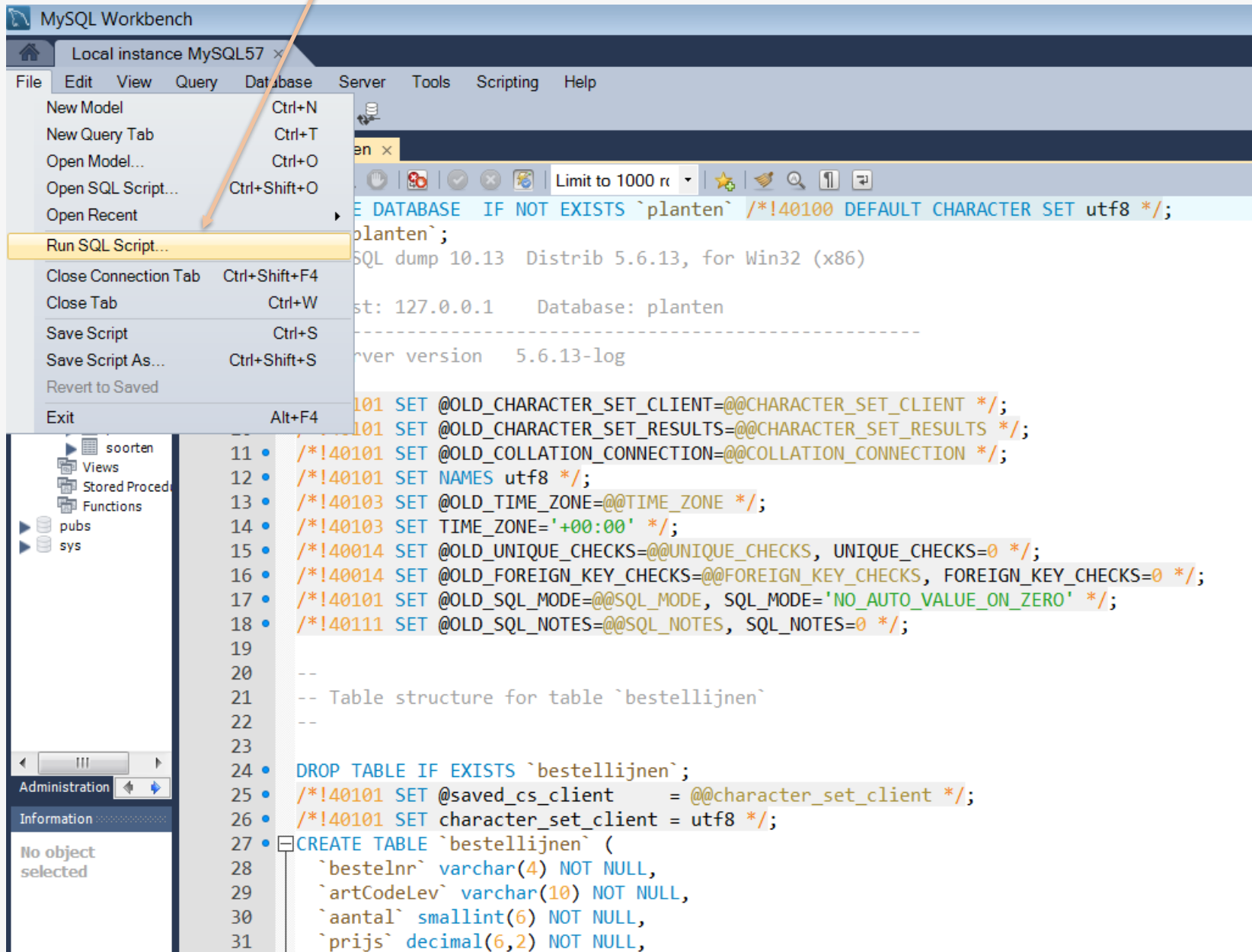


Open SQL script Planten



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Voer script uit



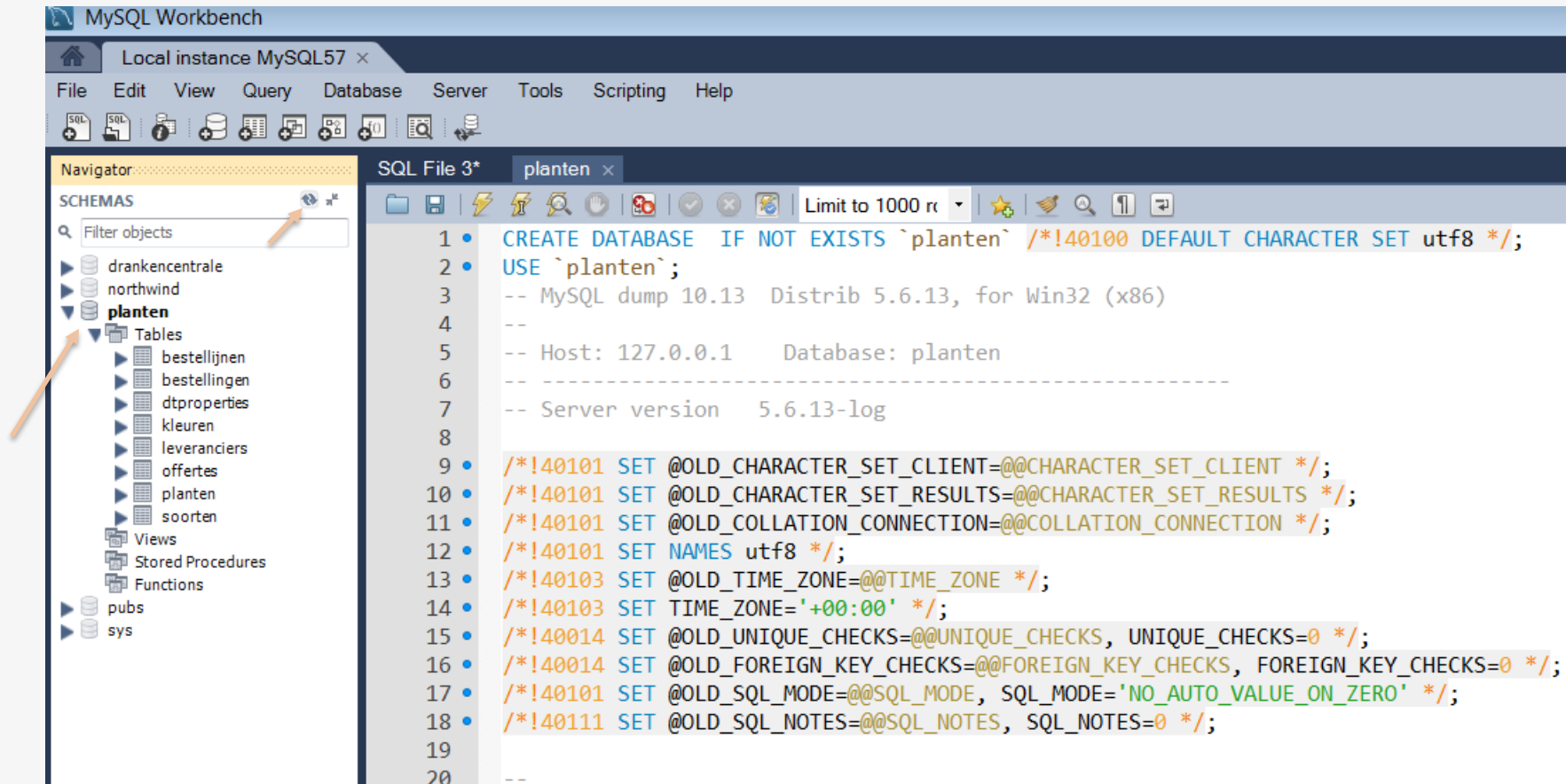
The screenshot shows the MySQL Workbench interface. The 'File' menu is open, and the 'Run SQL Script...' option is highlighted with a yellow background. An orange arrow points from the title 'Voer script uit' to this menu item. The main editor window displays a SQL script for creating a database named 'planten' and a table named 'bestellijnen'.

```
CREATE DATABASE IF NOT EXISTS `planten` /*!40100 DEFAULT CHARACTER SET utf8 */;
USE `planten`;
-- SQL dump 10.13 Distrib 5.6.13, for Win32 (x86)
-- Host: 127.0.0.1 Database: planten
-- Server version: 5.6.13-log

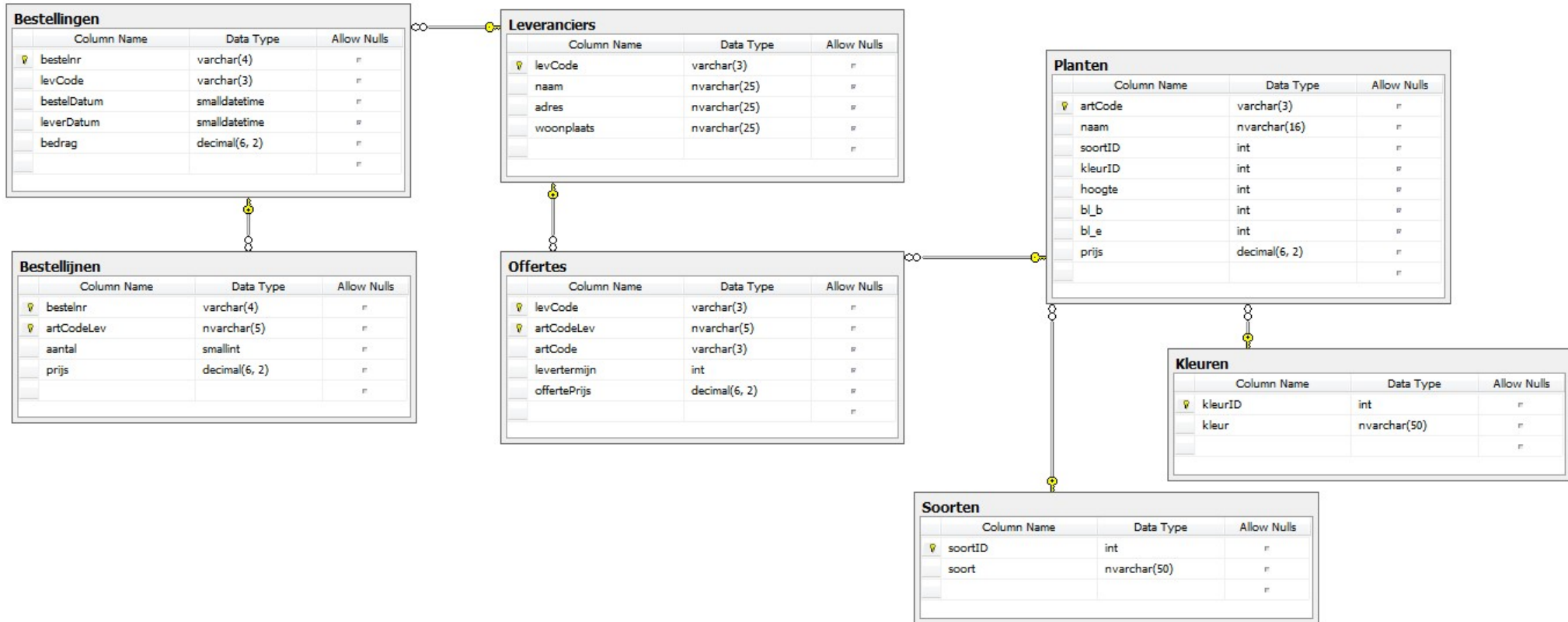
/*!40101 SET @OLD_CHARACTER_SET_CLIENT=@@CHARACTER_SET_CLIENT */;
/*!40101 SET @OLD_CHARACTER_SET_RESULTS=@@CHARACTER_SET_RESULTS */;
/*!40101 SET @OLD_COLLATION_CONNECTION=@@COLLATION_CONNECTION */;
/*!40103 SET NAMES utf8 */;
/*!40103 SET @OLD_TIME_ZONE=@@TIME_ZONE */;
/*!40103 SET TIME_ZONE='+00:00' */;
/*!40014 SET @OLD_UNIQUE_CHECKS=@@UNIQUE_CHECKS, UNIQUE_CHECKS=0 */;
/*!40014 SET @OLD_FOREIGN_KEY_CHECKS=@@FOREIGN_KEY_CHECKS, FOREIGN_KEY_CHECKS=0 */;
/*!40101 SET @OLD_SQL_MODE=@@SQL_MODE, SQL_MODE='NO_AUTO_VALUE_ON_ZERO' */;
/*!40111 SET @OLD_SQL_NOTES=@@SQL_NOTES, SQL_NOTES=0 */;

--
-- Table structure for table `bestellijnen`
--
DROP TABLE IF EXISTS `bestellijnen`;
/*!40101 SET @saved_cs_client = @@character_set_client */;
/*!40101 SET character_set_client = utf8 */;
CREATE TABLE `bestellijnen` (
  `bestelnr` varchar(4) NOT NULL,
  `artCodeLev` varchar(10) NOT NULL,
  `aantal` smallint(6) NOT NULL,
  `prijs` decimal(6,2) NOT NULL,
```

Refresh scschema's → databank Planten



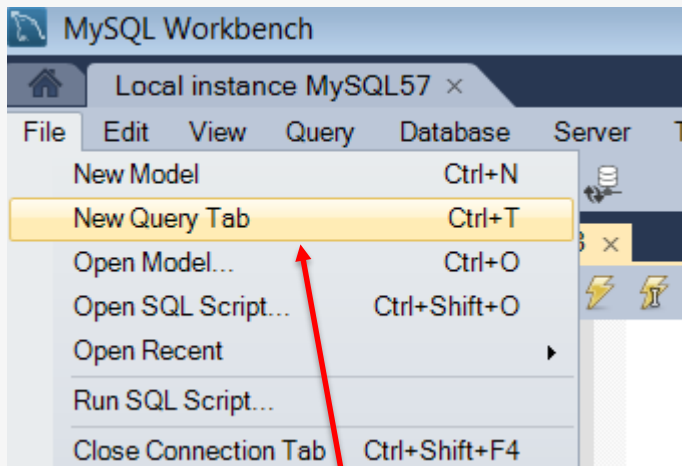
De databank Planten – Relationeel model



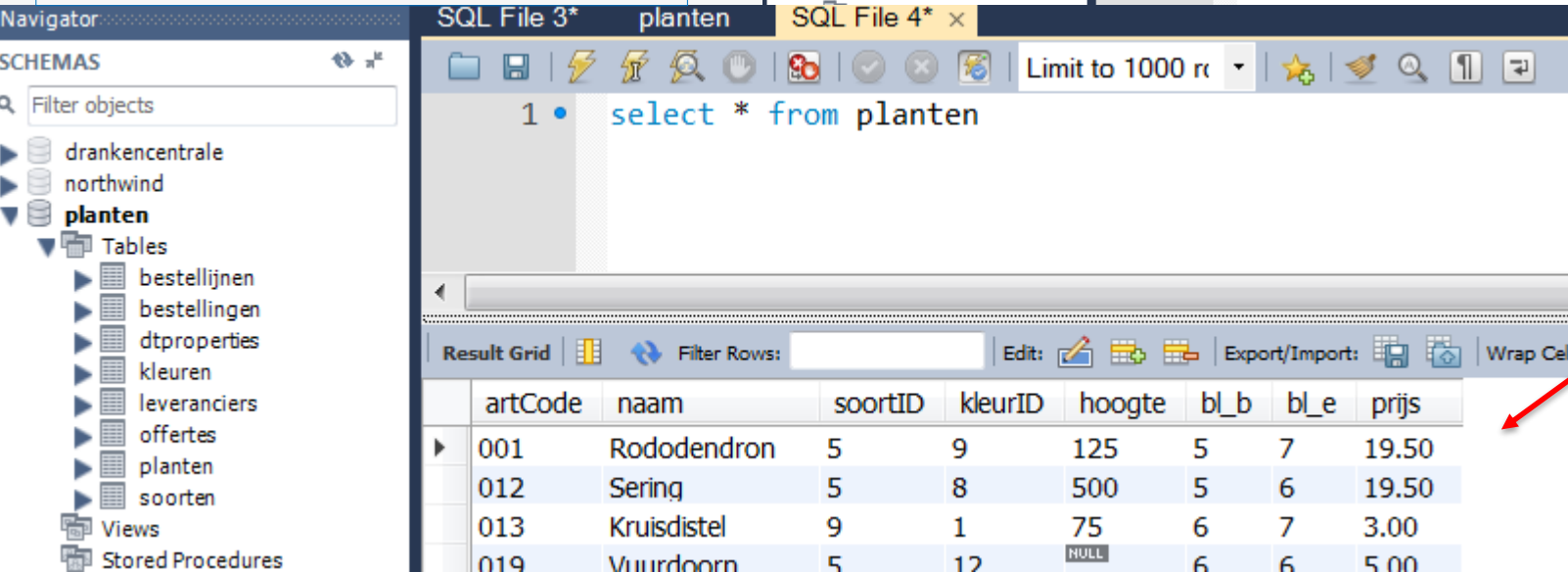
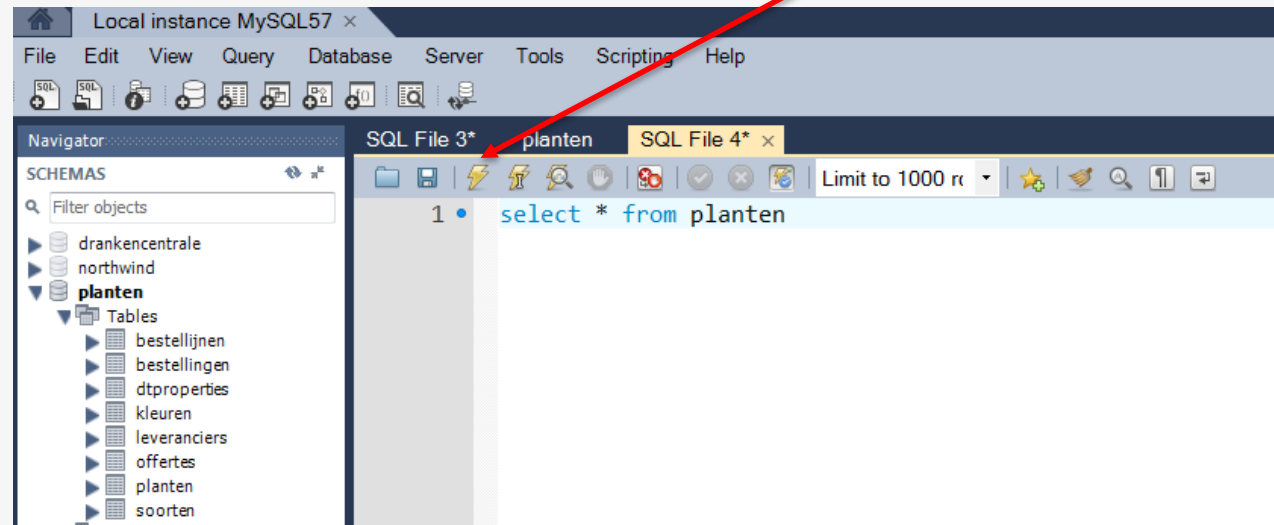
Queries opstellen

Bevragen gegevens in MySQL Server kan via MySQL Workbench (vergeet niet de juiste databank te selecteren)

tik de query in en kies Execute...



creëer een nieuwe query voor de DB Planten



de resultaten verschijnen in een deelvenster...


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Troubleshooting

- Waard om te proberen:
 - Full option install kan soms het probleem oplossen
- Indien Workbench niet werd geïnstalleerd:
 - Check prerequisites
 - Probeer Workbench apart te installeren

Help !

Via het help panel heb je toegang tot een heel complete help.



The screenshot shows a help panel titled "SQL Additions" with a search bar containing "SELECT". The main content area displays the "Topic: SELECT" with its syntax and usage. The syntax is listed as follows:

```
Syntax:
SELECT
  [ALL | DISTINCT | DISTINCTROW ]
  [HIGH_PRIORITY]
  [STRAIGHT_JOIN]
  [SQL_SMALL_RESULT] [SQL_BIG_RESULT] [SQL_BUFFER_RESULT]
  [SQL_CACHE | SQL_NO_CACHE] [SQL_CALC_FOUND_ROWS]
  select_expr [, select_expr ...]
  [FROM table_references
  [PARTITION partition_list]
  [WHERE where_condition]
  [GROUP BY {col_name | expr | position}
  [ASC | DESC], ... [WITH ROLLUP]]
  [HAVING where_condition]
  [ORDER BY {col_name | expr | position}
  [ASC | DESC], ...]
  [LIMIT {[offset,] row_count | row_count OFFSET offset}]
  [PROCEDURE procedure_name(argument_list)]
  [INTO OUTFILE 'file_name'
  [CHARACTER SET charset_name]
  export_options
  | INTO DUMPFILE 'file_name'
  | INTO var_name [, var_name]]
  [FOR UPDATE | LOCK IN SHARE MODE]]
```

Below the syntax, a paragraph explains: "SELECT is used to retrieve rows selected from one or more tables, and can include UNION statements and subqueries. See [UNION](#), and [Online help subqueries](#) .

The most commonly used clauses of SELECT statements are these:

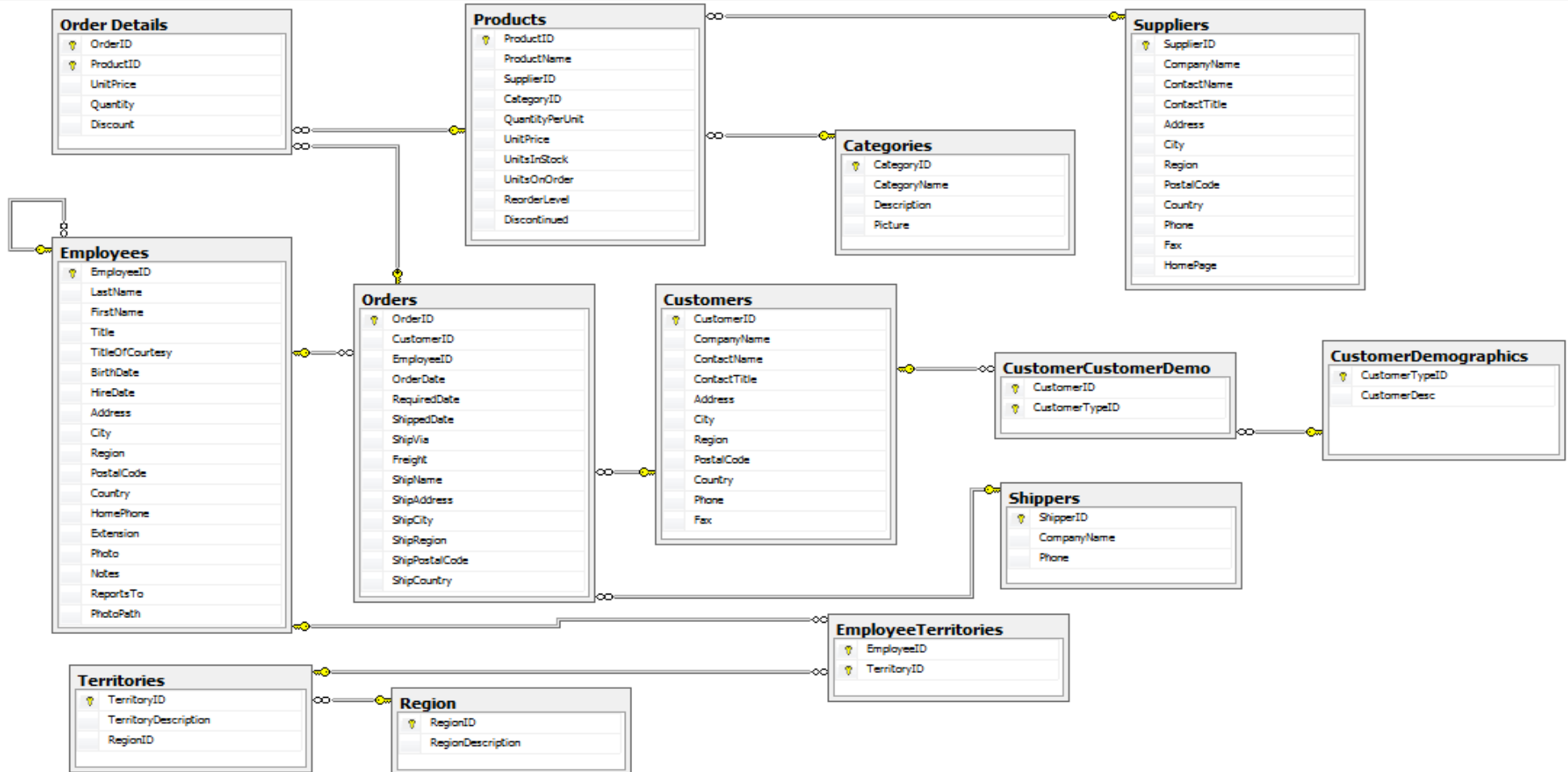
- Each select_expr indicates a column that you want to retrieve. There must be at least one select_expr.

At the bottom of the panel, there are tabs for "Context Help" and "Snippets".

De Databanken Northwind en Pubs

Voorbeelden die je in de slides vindt zijn gebaseerd op de **DB Northwind** en op de **DB Pubs**. Van beide databanken vind je het logisch model in de volgende slides en de installatiebestanden op Chamilo.

Databank Northwind



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Databank Pubs

