



# Software Engineering Sommersemester 2022

Einrichtung einer Datenbank



Fakultät

Ingenieurwissenschaften und

Gesundheit

Göttingen

# Software Engineering

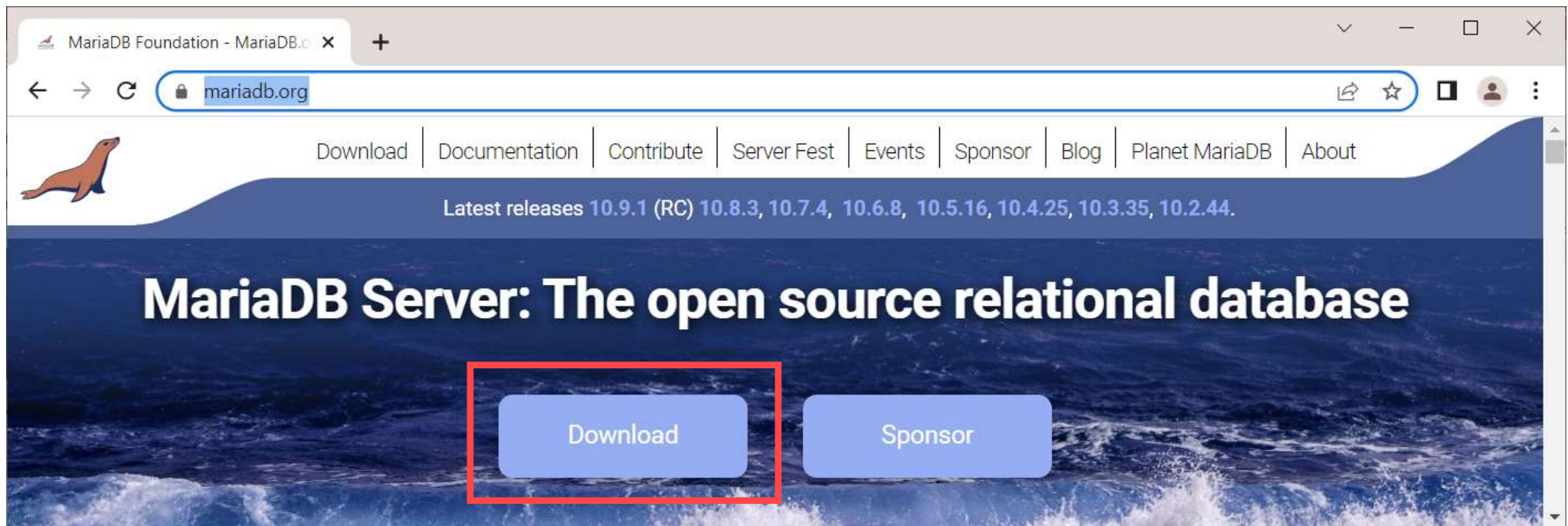
- Einrichtung einer Datenbank -

1 Installation MariaDB / MySQL

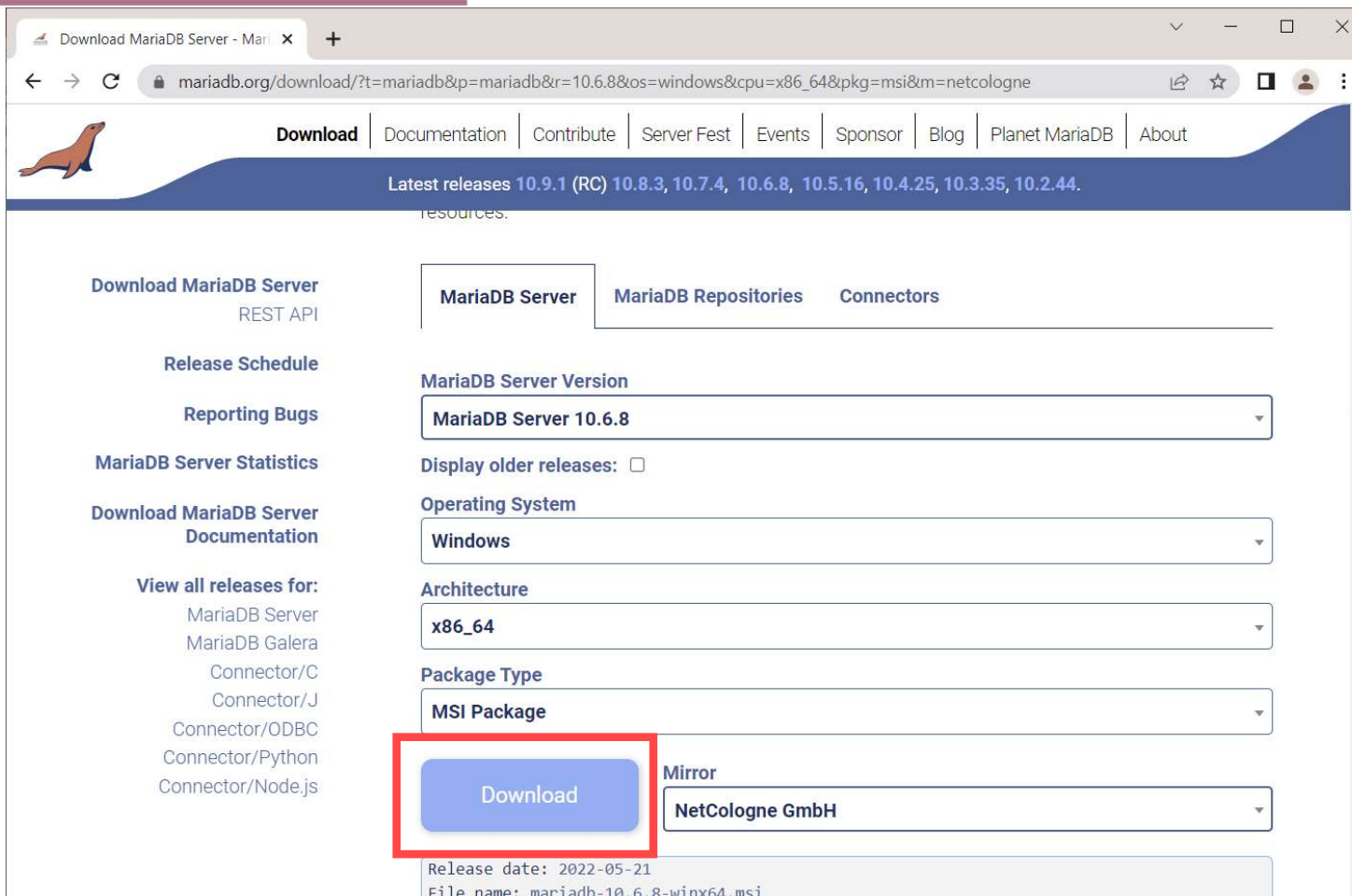
2 Anlage einer Beispiel-Datenbank

# Download

- Download von <https://mariadb.org/>



# Download



The screenshot shows the MariaDB download page in a web browser. The browser's address bar displays the URL: `mariadb.org/download/?t=mariadb&p=mariadb&r=10.6.8&os=windows&cpu=x86_64&pkg=msi&m=netcologne`. The page features a navigation bar with links: Download, Documentation, Contribute, Server Fest, Events, Sponsor, Blog, Planet MariaDB, and About. Below the navigation bar, a banner lists the latest releases: 10.9.1 (RC), 10.8.3, 10.7.4, 10.6.8, 10.5.16, 10.4.25, 10.3.35, and 10.2.44. The main content area is divided into two columns. The left column contains links for Download MariaDB Server, REST API, Release Schedule, Reporting Bugs, MariaDB Server Statistics, Download MariaDB Server Documentation, and View all releases for: MariaDB Server, MariaDB Galera, Connector/C, Connector/J, Connector/ODBC, Connector/Python, and Connector/Node.js. The right column contains a tabbed interface with three tabs: MariaDB Server (selected), MariaDB Repositories, and Connectors. Below the tabs, there are several dropdown menus for selecting the version (MariaDB Server Version 10.6.8), operating system (Windows), architecture (x86\_64), package type (MSI Package), and mirror (NetCologne GmbH). A blue Download button is highlighted with a red rectangle. At the bottom, the release date (2022-05-21) and file name (mariadb-10.6.8-winx64.msi) are displayed.

Download MariaDB Server - Mari x +

mariadb.org/download/?t=mariadb&p=mariadb&r=10.6.8&os=windows&cpu=x86\_64&pkg=msi&m=netcologne

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Latest releases 10.9.1 (RC) 10.8.3, 10.7.4, 10.6.8, 10.5.16, 10.4.25, 10.3.35, 10.2.44.

resources.

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REST API

Release Schedule

Reporting Bugs

MariaDB Server Statistics

Download MariaDB Server  
Documentation

View all releases for:

- MariaDB Server
- MariaDB Galera
- Connector/C
- Connector/J
- Connector/ODBC
- Connector/Python
- Connector/Node.js

MariaDB Server | MariaDB Repositories | Connectors

MariaDB Server Version

MariaDB Server 10.6.8

Display older releases: ☐

Operating System

Windows

Architecture

x86\_64

Package Type

MSI Package

Download

Mirror

NetCologne GmbH

Release date: 2022-05-21

File name: mariadb-10.6.8-winx64.msi

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### Useful Resources

- [MariaDB Server Documentation](#)
- [MariaDB Connector Documentation](#)
- [Contact Us](#)
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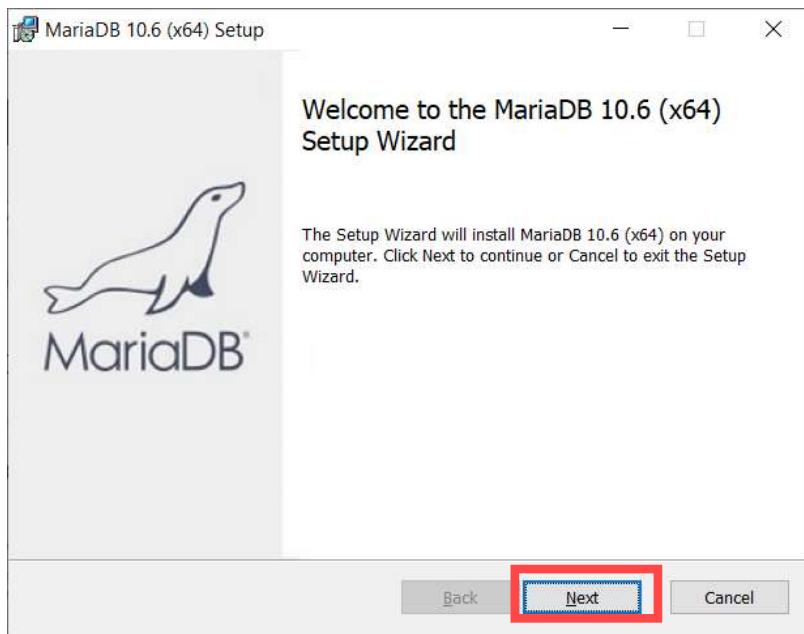
Öffnen  
Dateien dieses Typs immer öffnen  
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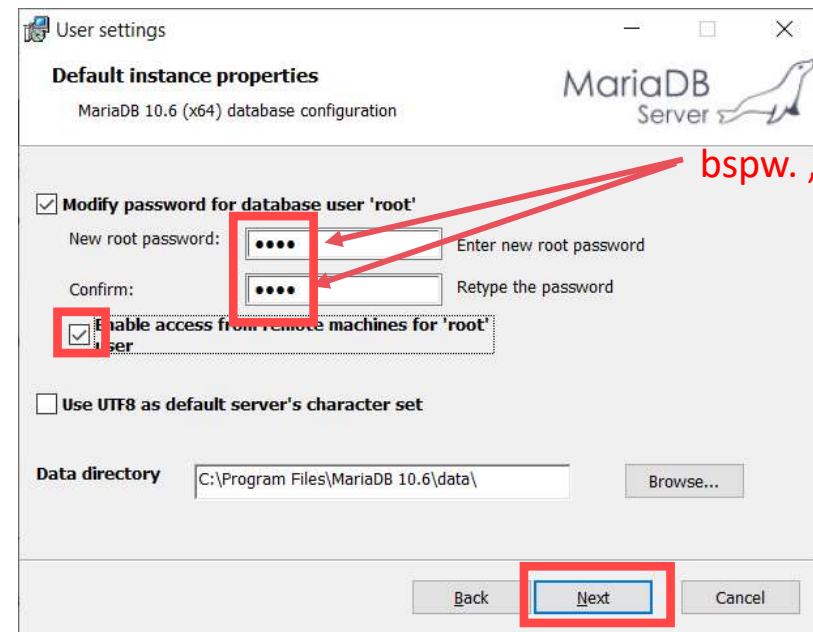
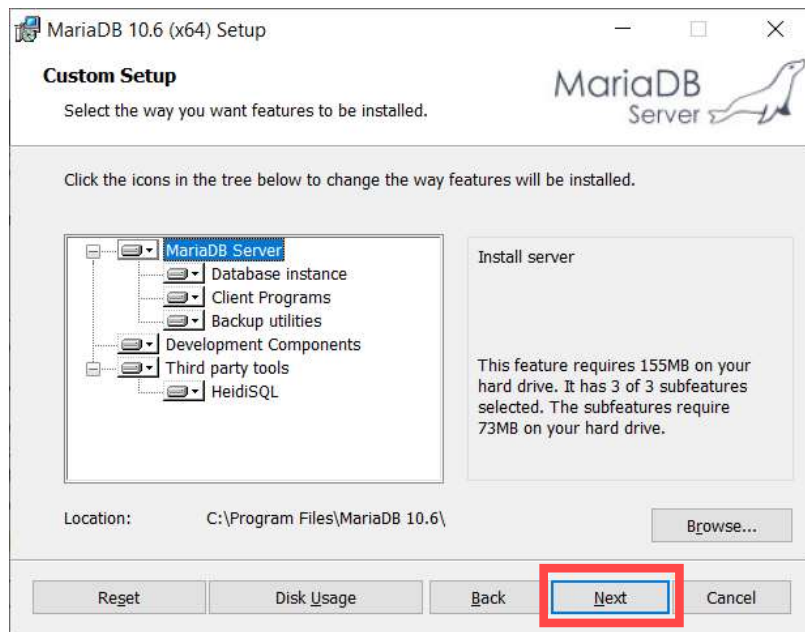
mariadb-10.6.8-wi...msi

Alle anzeigen

# Installation



# Installation



# Installation

Database settings

Default instance properties

MariaDB 10.6 (x64) database configuration

☒ **Install as service**

Service Name:

☒ **Enable networking**

TCP port:

**InnoDB engine settings**

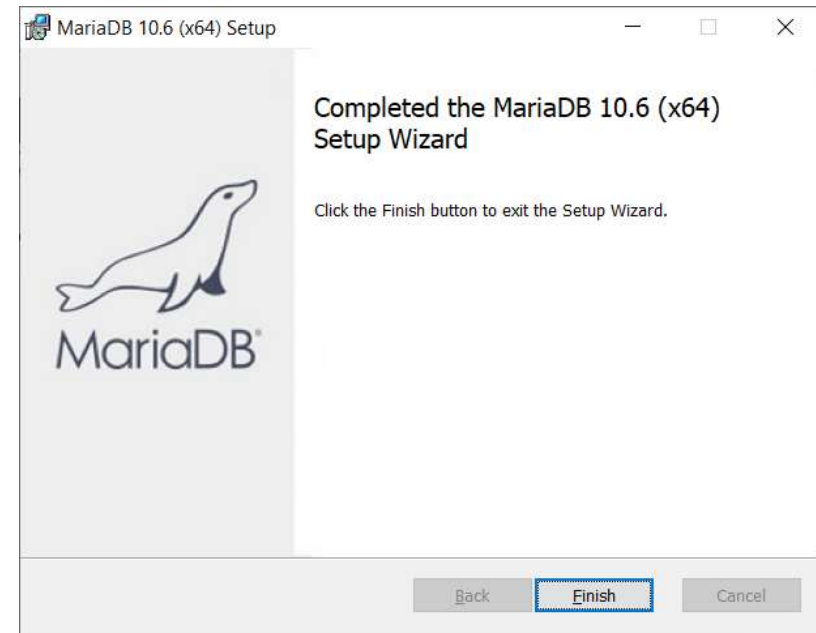
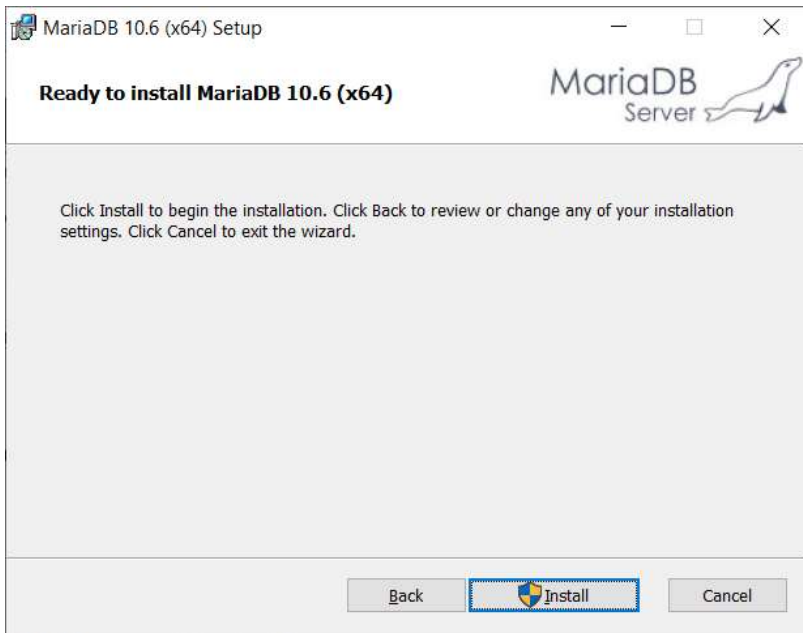
Buffer pool size:  MB

Page size:  KB

Port des Datenbank-Services merken!



# Installation





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# Software Engineering

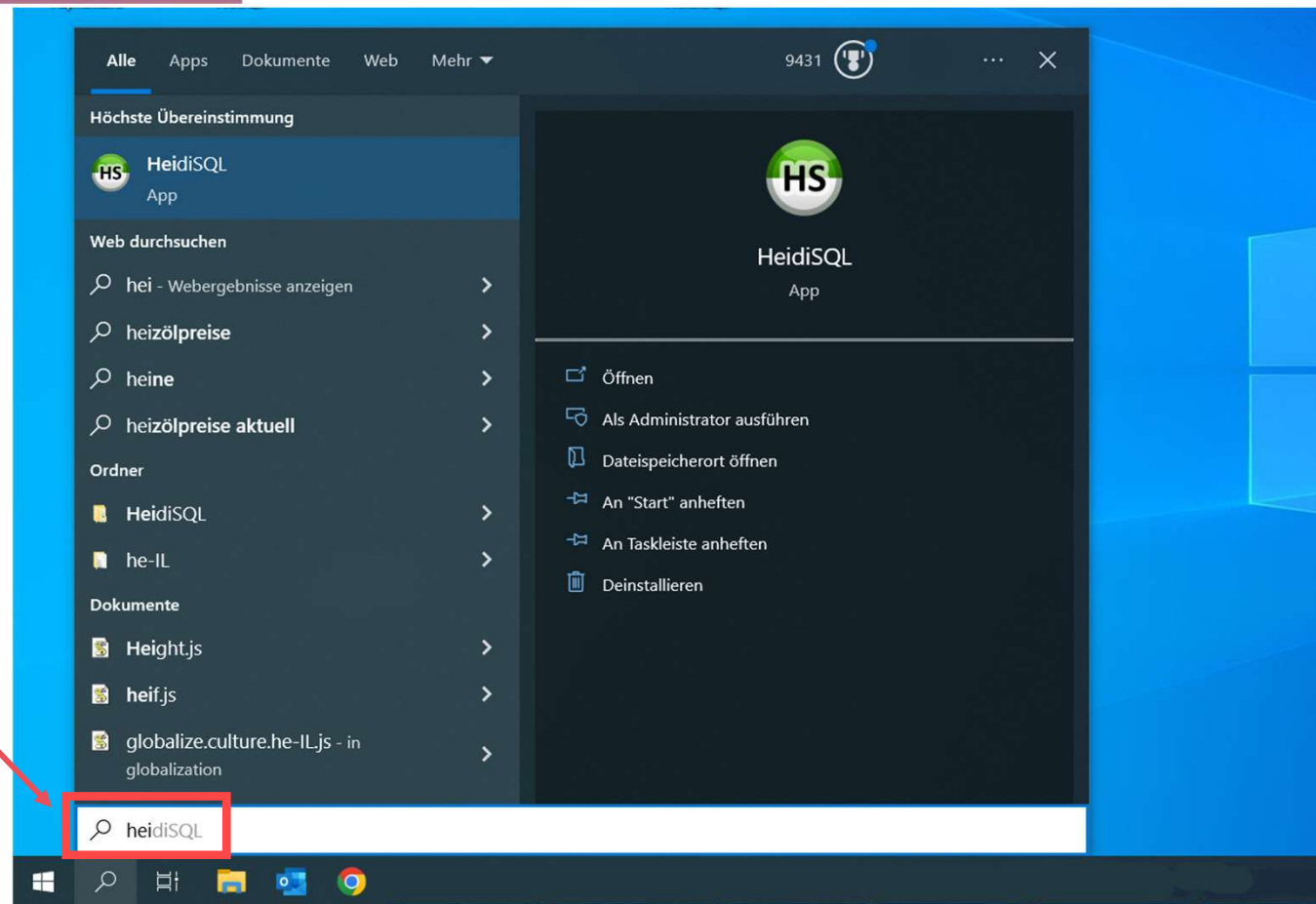
- Einrichtung einer Datenbank -

1 Installation MariaDB / MySQL

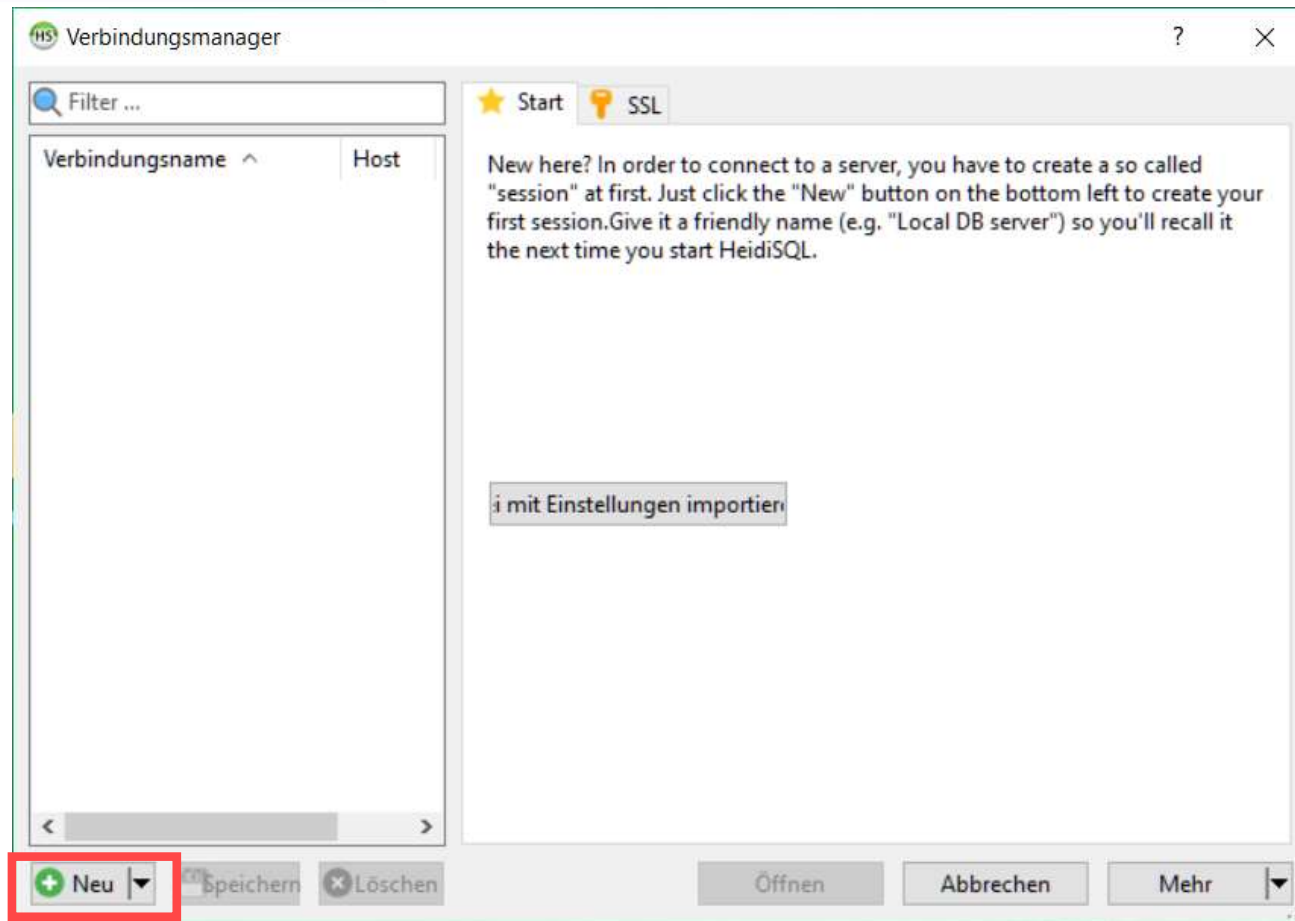
2 Anlage einer Beispiel-Datenbank

# HeidiSQL aufrufen (DB-Admin Tool)

HeidiSQL



# Verbindung zum DB-Server herstellen



# Verbindung zum DB-Server herstellen

Passwort, siehe Folie 7, eingeben

DB-Service Port, siehe Folie 8, prüfen

Verbindungsmanager

Filter ...

Verbindungsname	Host
Unnamed	127.0...

Einstellungen Erweitert SSL Statistik

Verbindungstyp: MariaDB or MySQL (TCP/IP)

Library: libmariadb.dll

Hostname / IP: 127.0.0.1

☐ Nach Benutzernamen + Passwort fragen

☐ Nutze Windows Authentifizierung

Benutzername: root

Passwort:

Port: 3306

☐ Komprimierte Kommunikation

Datenbanken: Mit Semikolon getrennt

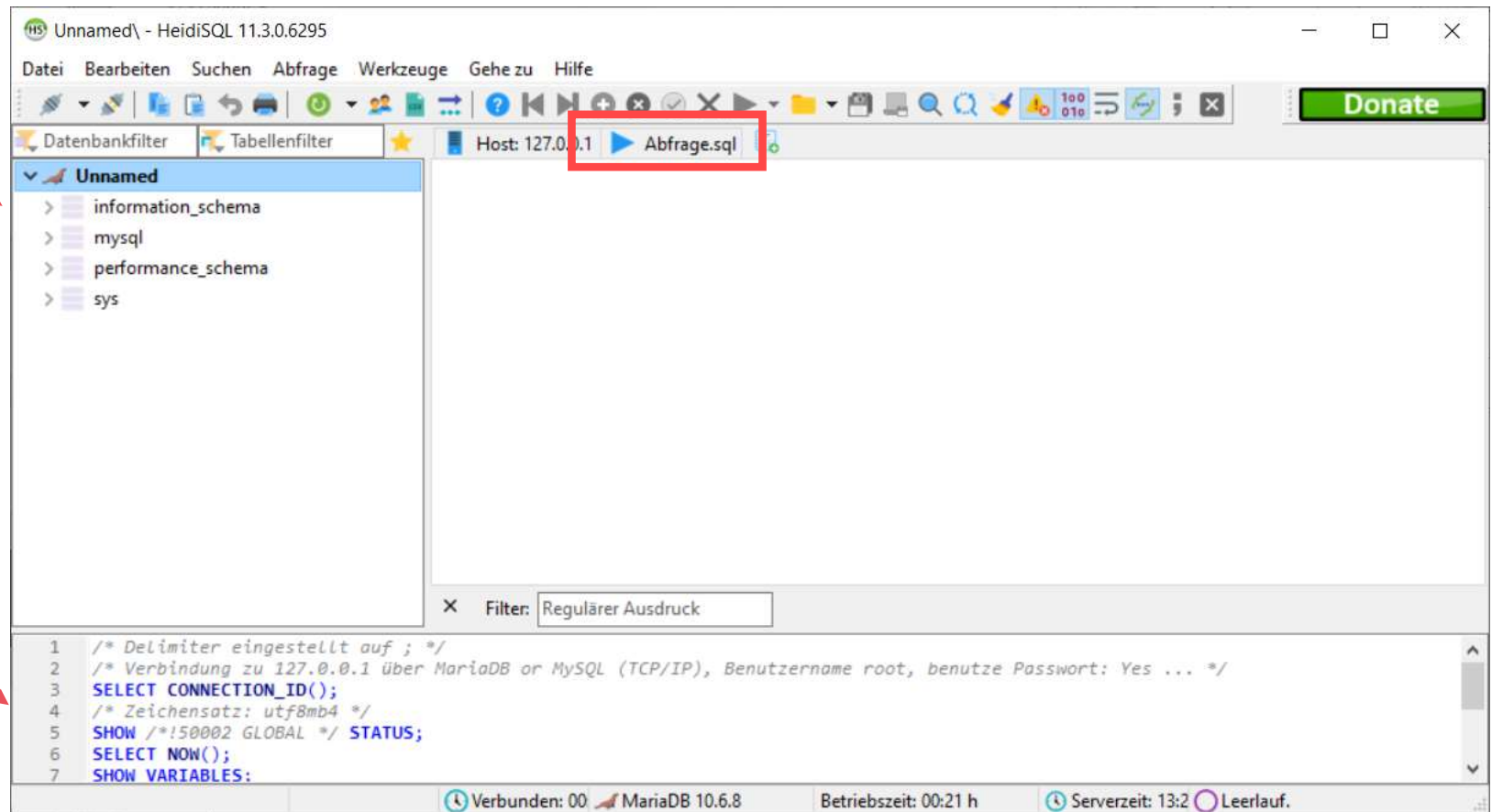
Kommentar:

Neu Speichern Löschen Öffnen Abbrechen Mehr

# Übersicht HeidiSQL-Fenster

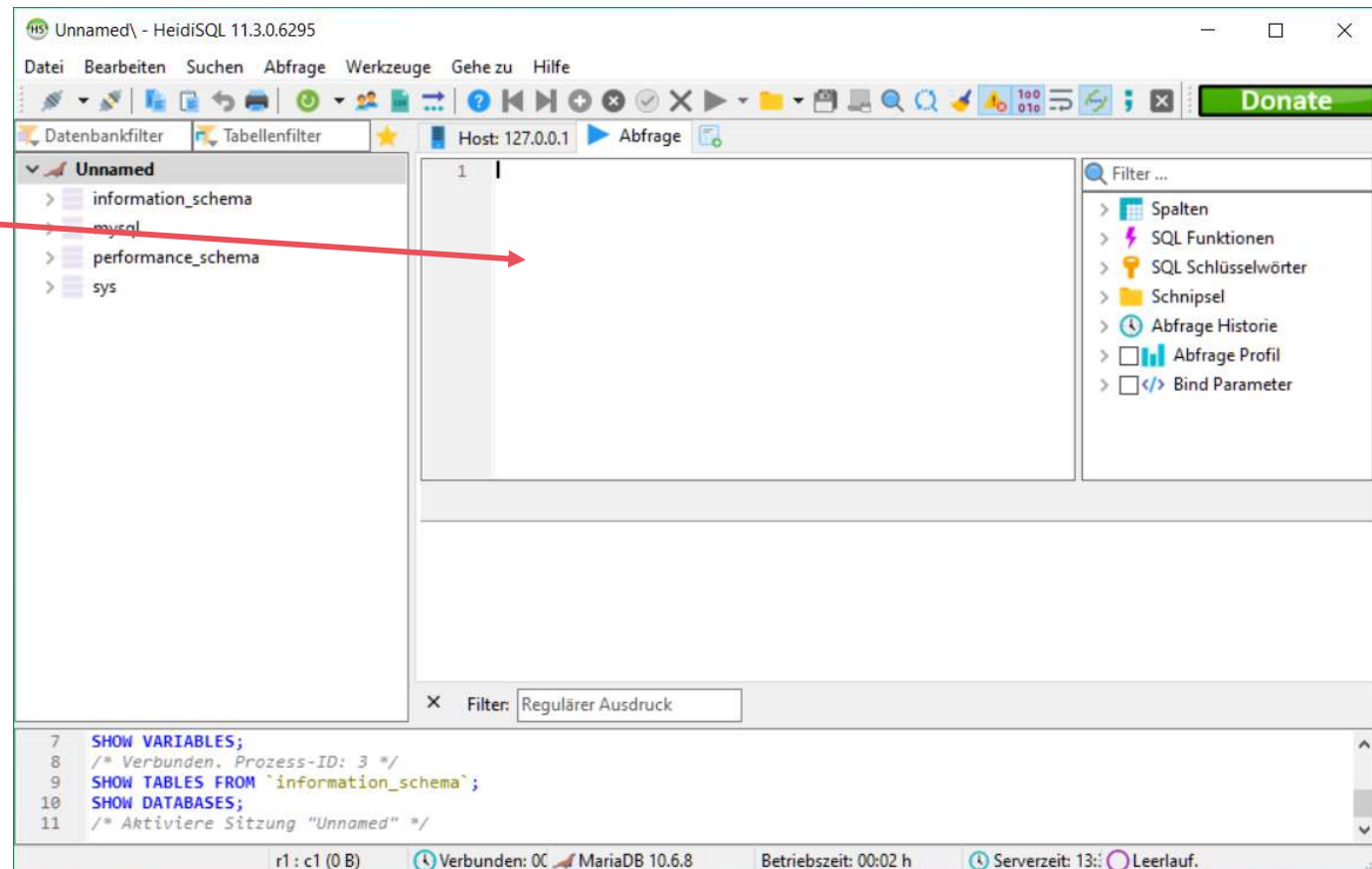
Vorhandene  
Datenbanken

Anzeige der Befehle  
an den Datenbank-Server



# Übersicht HeidiSQL-Fenster

Befehle an den  
Datenbank-Server  
senden

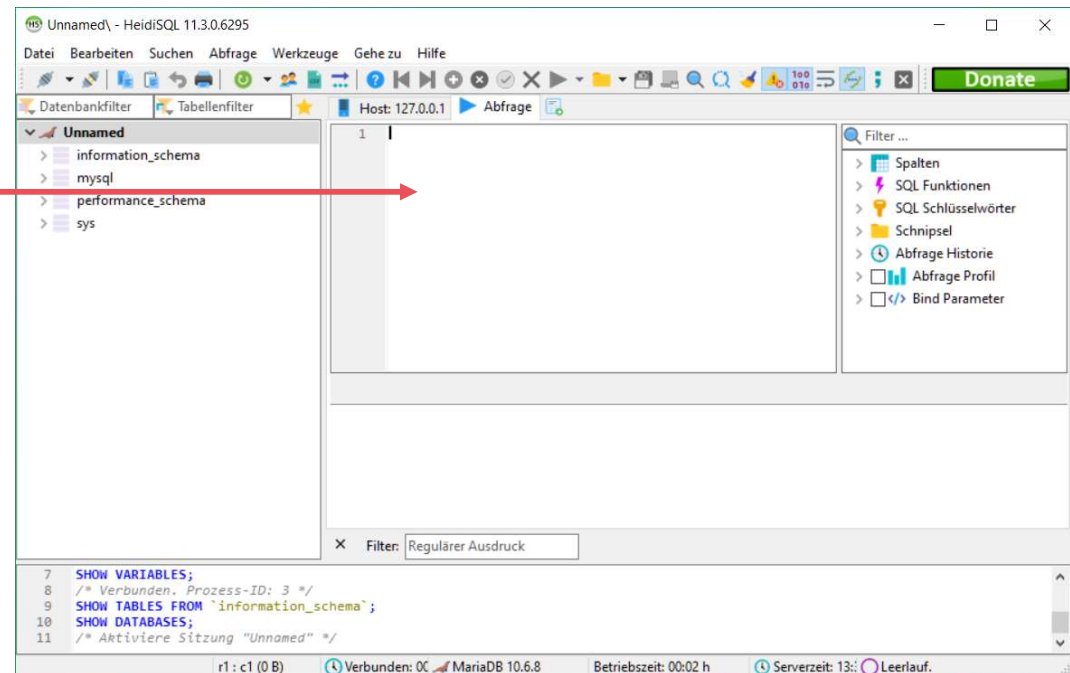


# BeispielDB anlegen (Teil 1)

```
CREATE DATABASE BeispielDB;
```

```
USE BeispielDB;
```

```
CREATE TABLE Zip (  
    ZipCode VARCHAR(255),  
    Country VARCHAR(255),  
    City VARCHAR(255),  
  
    PRIMARY KEY (ZipCode, Country)  
);
```





# BeispielDB anlegen (Teil 2)

```
CREATE TABLE AddressData (  
  
    ID INTEGER AUTO_INCREMENT,  
  
    Firstname VARCHAR(255),  
  
    Lastname VARCHAR(255),  
  
    Street VARCHAR(255),  
  
    ZipCode VARCHAR(255),  
  
    Country VARCHAR(255),  
  
    PRIMARY KEY (ID),  
  
    FOREIGN KEY (ZipCode, Country)  
        REFERENCES Zip (ZipCode, Country)  
  
);
```

