



INSTITUTO FEDERAL
DE EDUCAÇÃO, CIÊNCIA E TECNOLOGIA
Bahia

Banco de Dados

Introdução ao Mysql com Workbench e à
Modelagem Lógica.

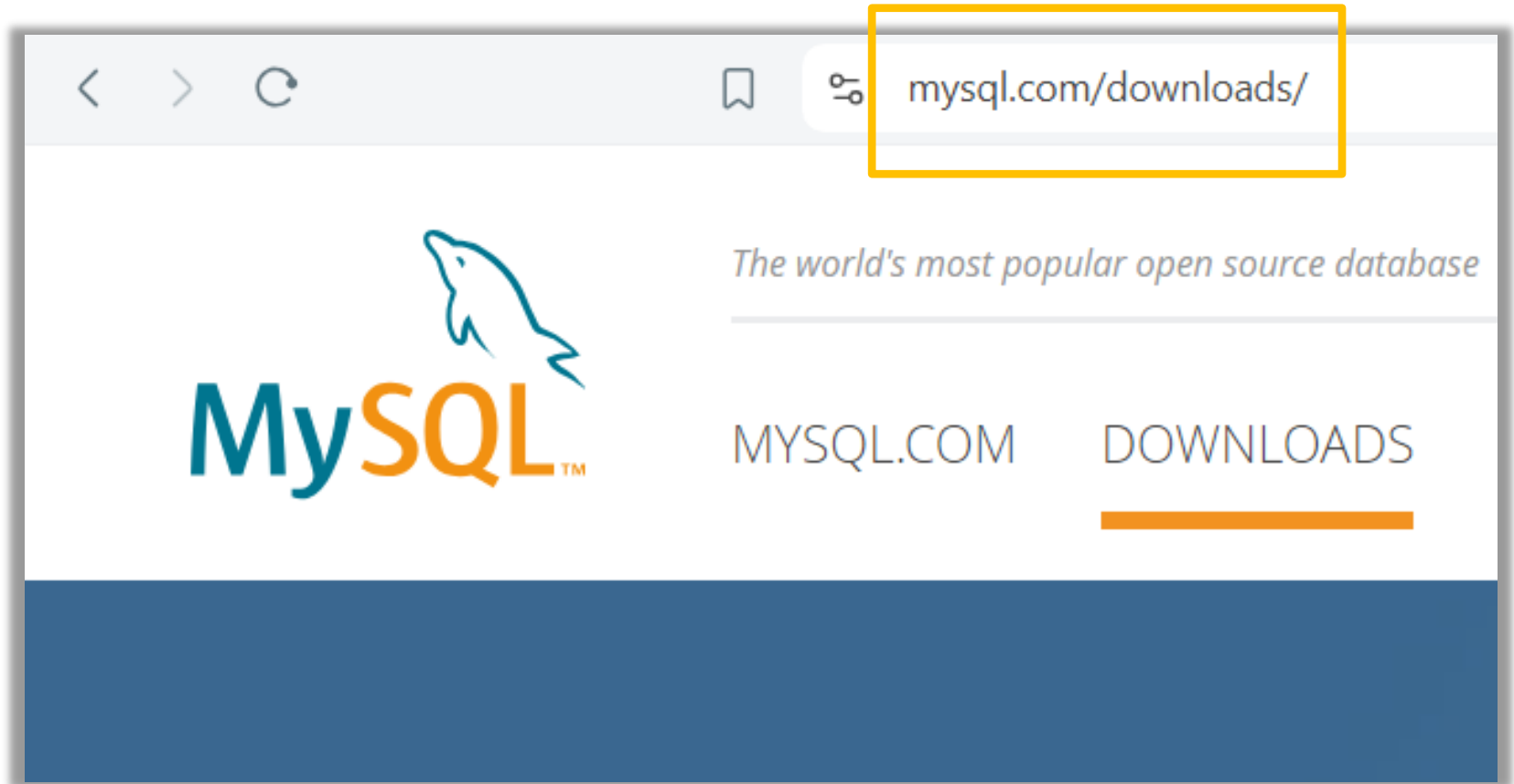


Roteiro

- Introdução ao MySQL com Workbench e à Modelagem Lógica:
 - Download do MySql e do Workbench;
 - Instalação do MySql:
 - Configuração;
 - Instalação do Workbench;
 - Workbench:
 - Conexão com o Mysql;
 - Modelagem Lógica:
 - » Criação do Modelo;
 - » Criação de Tabelas e Relacionamentos;
- Atividades.



Download do MySQL e do Workbench



Download do MySQL e do Workbench

[MySQL Community \(GPL\) Downloads »](#)



Download do MySQL e do Workbench

⬇ MySQL Community Downloads

- MySQL Yum Repository
- MySQL APT Repository
- MySQL SUSE Repository
- **MySQL Community Server** ← SGBD
- MySQL NDB Cluster
- MySQL Router
- MySQL Shell
- MySQL Operator
- MySQL NDB Operator
- **MySQL Workbench** ← Software Cliente
- MySQL Installer for Windows
- C API (libmysqlclient)
- Connector/C++
- Connector/J
- Connector/NET
- Connector/Node.js
- Connector/ODBC
- Connector/Python
- MySQL Native Driver for PHP
- MySQL Benchmark Tool
- Time zone description tables
- Download Archives



Download do MySQL

MySQL Community Server 9.0.1 Innovation

Select Version:

9.0.1 Innovation

Select Operating System:

Microsoft Windows

Instalador MySQL para Windows

Windows (x86, 64-bit), MSI Installer

9.0.1

131.8M

[Download](#)

(mysql-9.0.1-winx64.msi)

MD5: f17099fdb03684ccd53bd9deb6a67491 | [Signature](#)

Windows (x86, 64-bit), ZIP Archive

9.0.1

285.4M

[Download](#)

(mysql-9.0.1-winx64.zip)

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Windows (x86, 64-bit), ZIP Archive

9.0.1

773.5M

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Debug Binaries & Test Suite

(mysql-9.0.1-winx64-debug-test.zip)

MD5: fe00263322ee79f3d5cf27662cb5246e | [Signature](#)



Download do MySQL

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

Instalador MySQL para Windows

Login »

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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 sign up for a free account by clicking the Sign Up link and following the instructions.

No thanks, just start my download.



Download do Workbench

MySQL Workbench 8.0.38

Select Operating System:

Microsoft Windows

Recommended Download:

MySQL Installer for Windows

All MySQL Products. For All Windows Platforms.
In One Package.

Starting with MySQL 5.6 the MySQL Installer package replaces the standalone MSI packages.



Windows (x86, 32 & 64-bit), MySQL Installer MSI

[Go to Download Page >](#)

Other Downloads:

Windows (x86, 64-bit), MSI Installer

8.0.38

41.7M

[Download](#)

(mysql-workbench-community-8.0.38-winx64.msi)

MD5: 30ea58c9f40816566ac4ccd2f136f1e2 | [Signature](#)

Instalador Workbench para Windows



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No thanks, just start my download.



Download do MySQL do Workbench



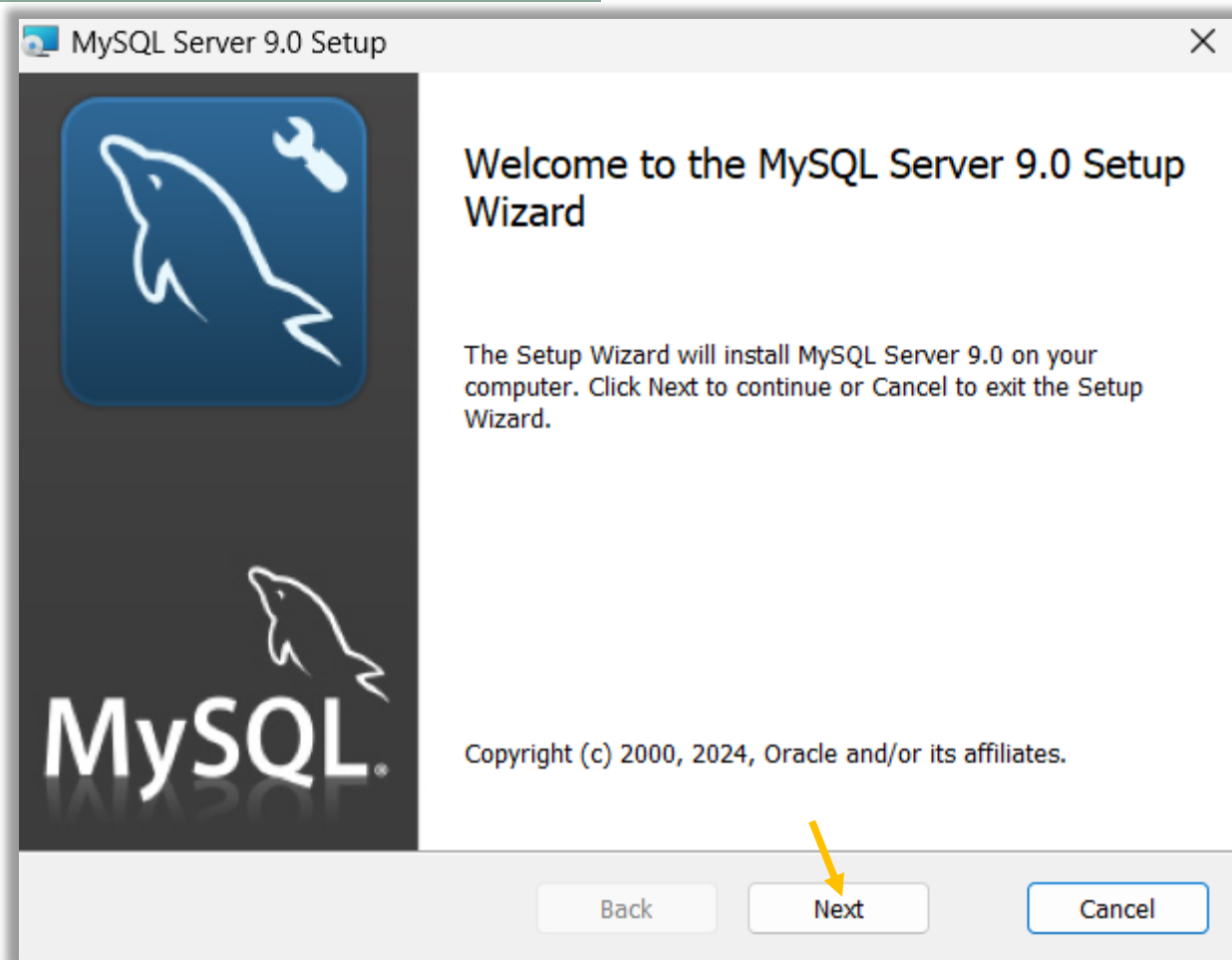
[mysql-9.0.1-winx64.msi](#)



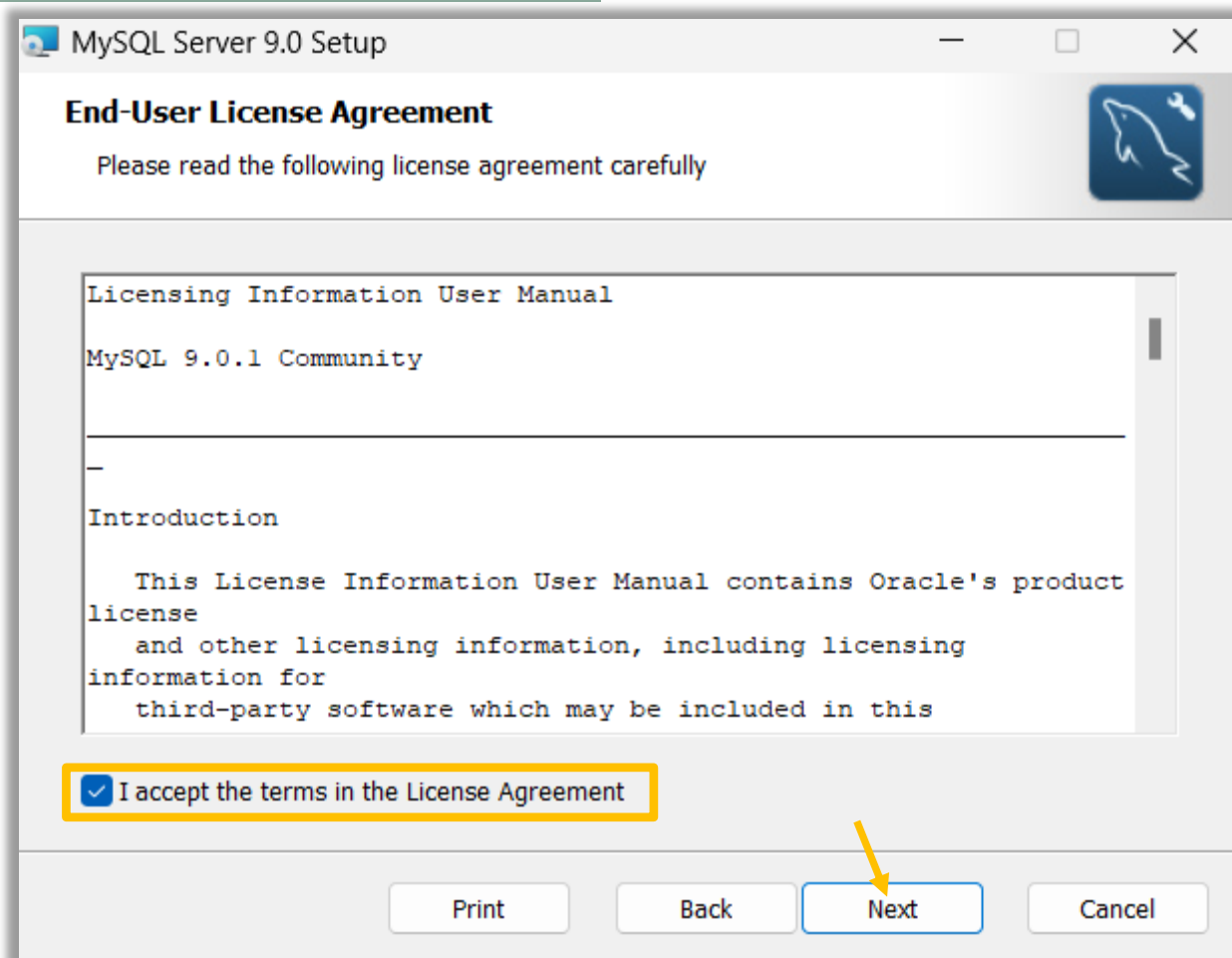
[mysql-workbench-community-8.0.38-winx64.msi](#)



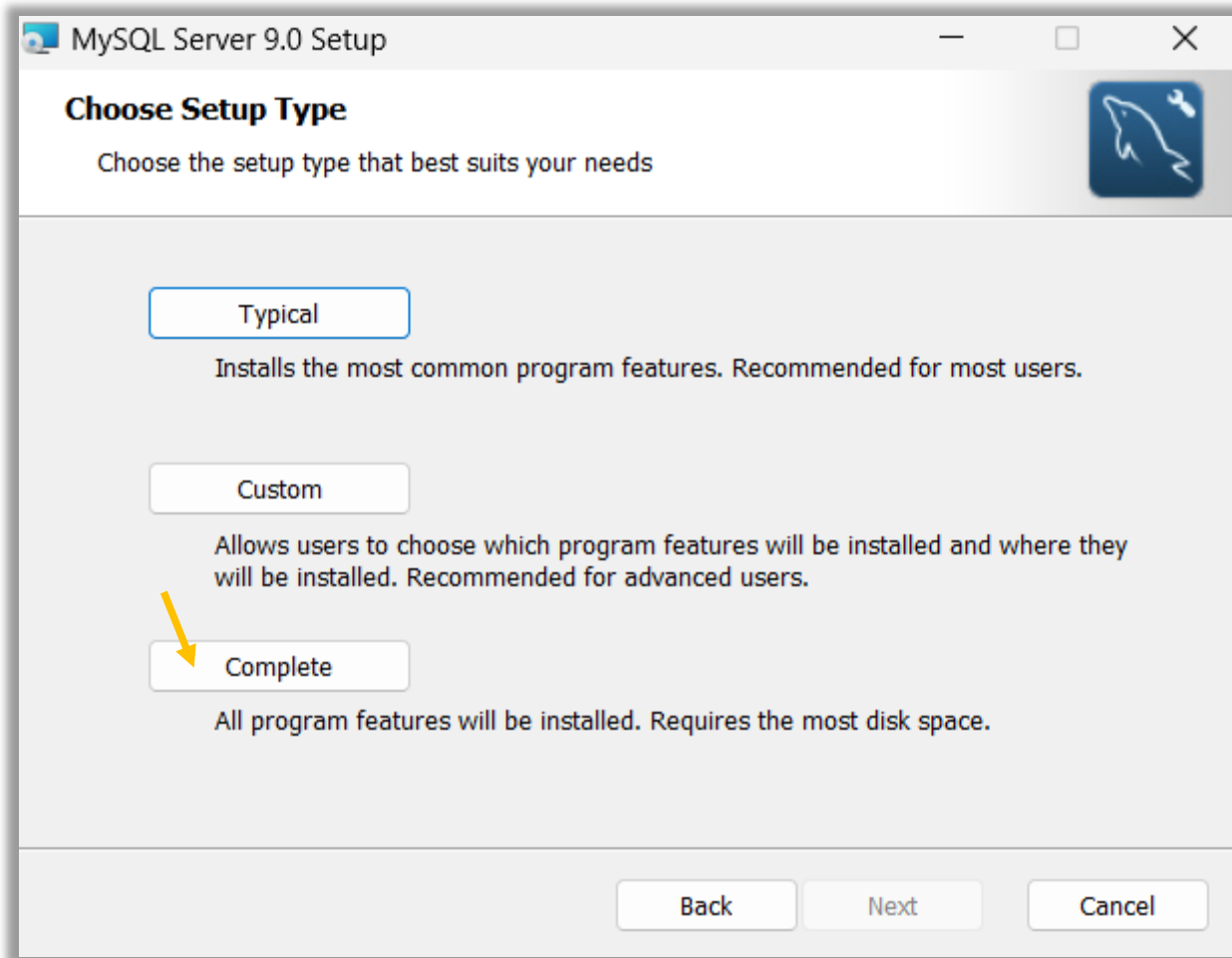
Intalação do MySQL



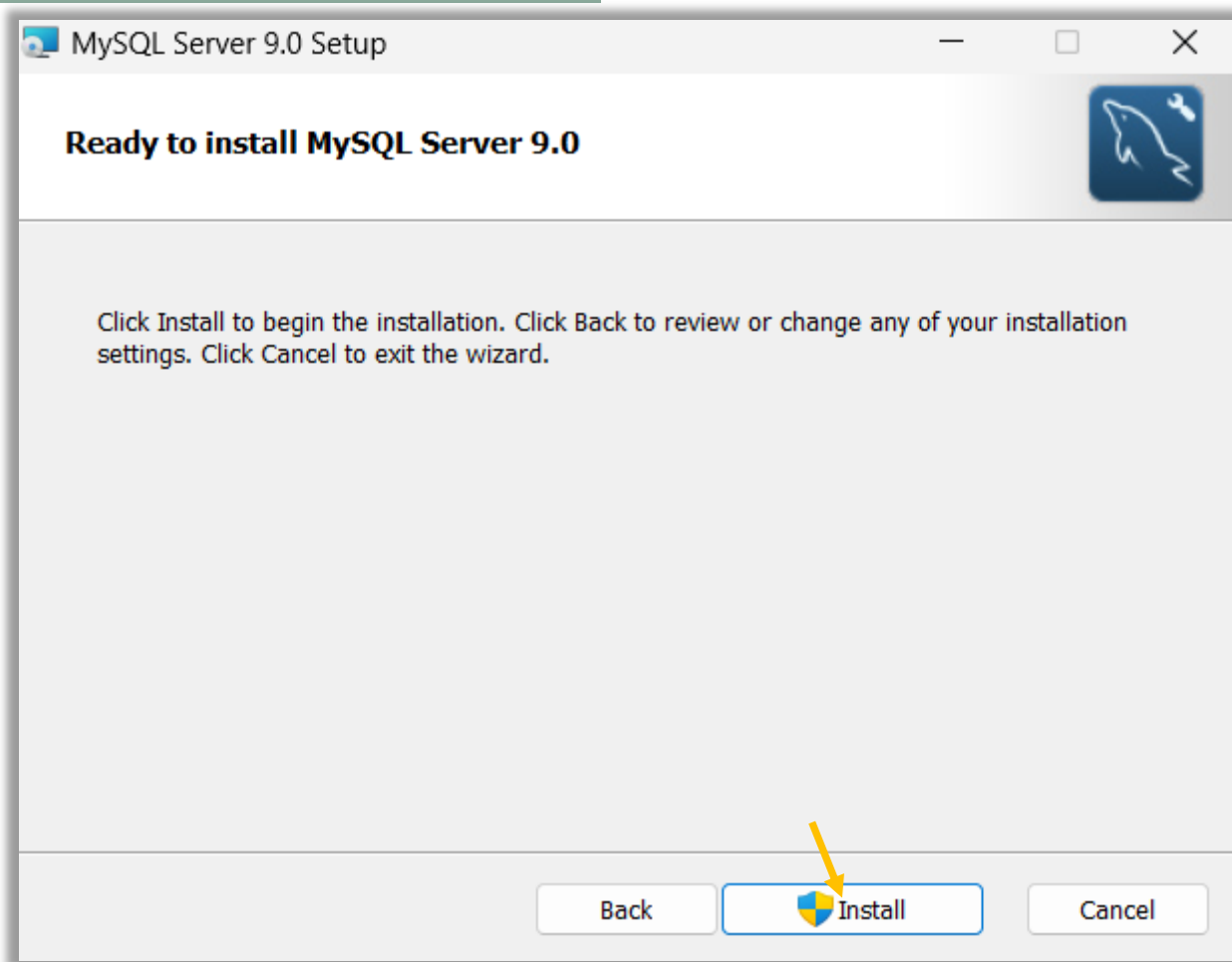
Intalação do MySQL



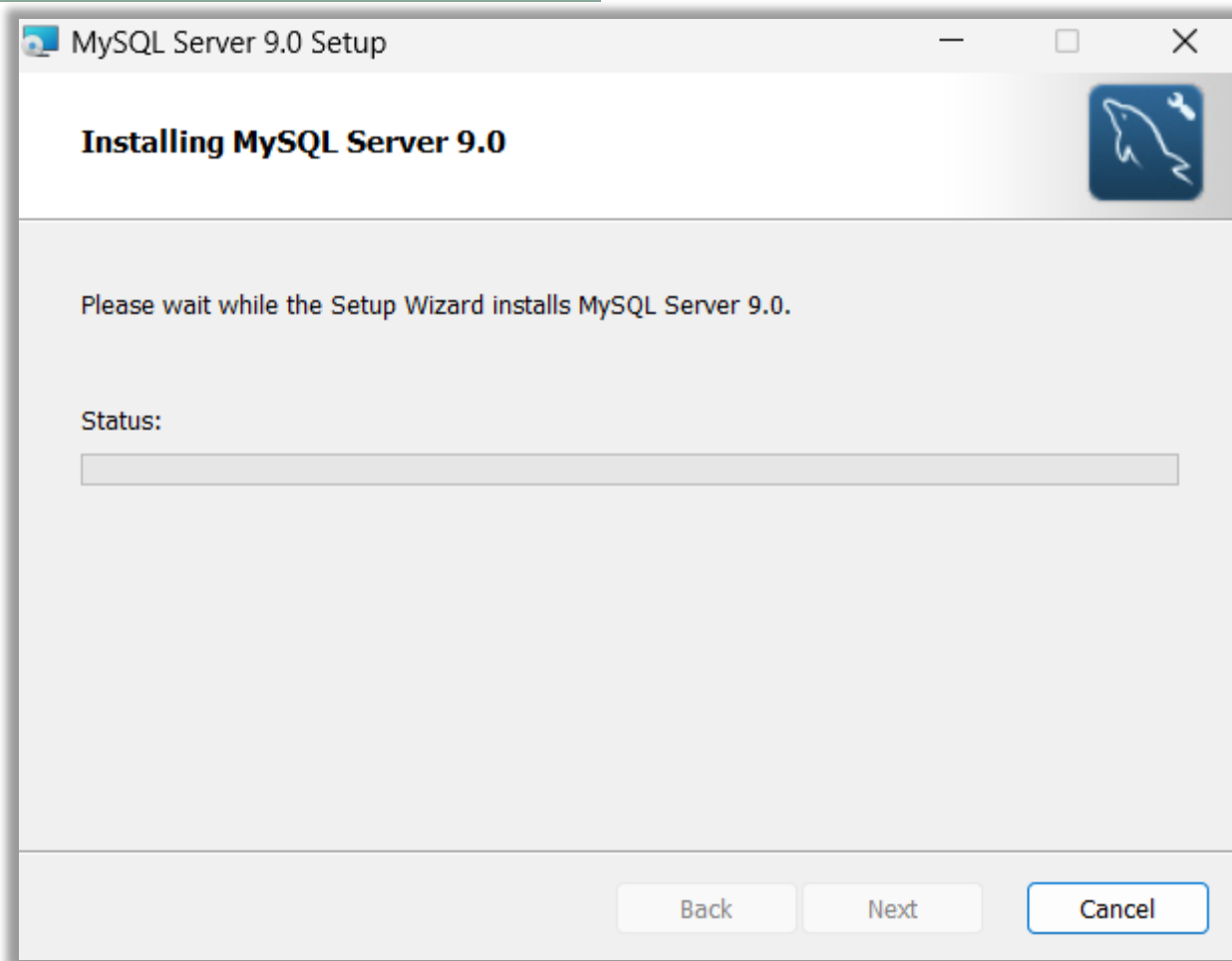
Intalação do MySQL



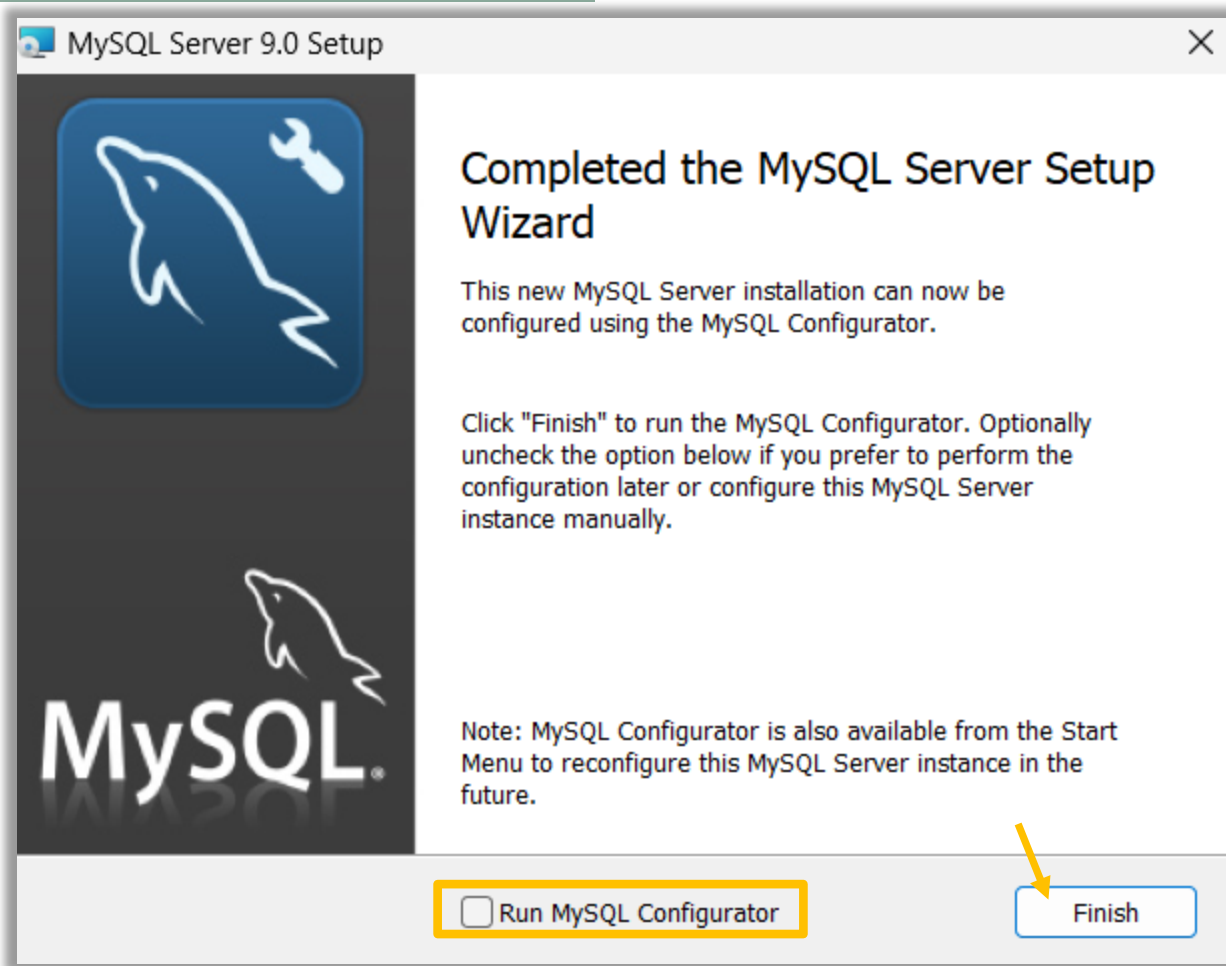
Intalação do MySQL



Intalação do MySQL



Intalação do MySQL



Instalação do MySQL - Configuração

MySQL Configurator

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:

Connectivity

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

☒ TCP/IP X Protocol Port:

☒ Open Windows Firewall ports for network access

☐ Named Pipe Pipe Name:

☐ Shared Memory Memory Name:

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



Intalação do MySQL - Configuração

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
-----------------	------	-----------

Add User
Edit User
Delete

< Back

Next >

Cancel



Intalação do MySQL - Configuração

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



Intalação do MySQL - Configuração

Server File Permissions

MySQL Configurator can secure the server's data directory by updating the permissions of files and folders located at:

C:\ProgramData\MySQL\MySQL Server 9.0\

Do you want MySQL Configurator 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



Intalação do MySQL - Configuração

Sample Databases

MySQL databases samples can be installed or removed as part of this configuration. These samples provide test data to use when developing applications for the MySQL ecosystem.

Select the databases that should be created or removed:

- ☐ Create Sakila database
- ☐ Create World database

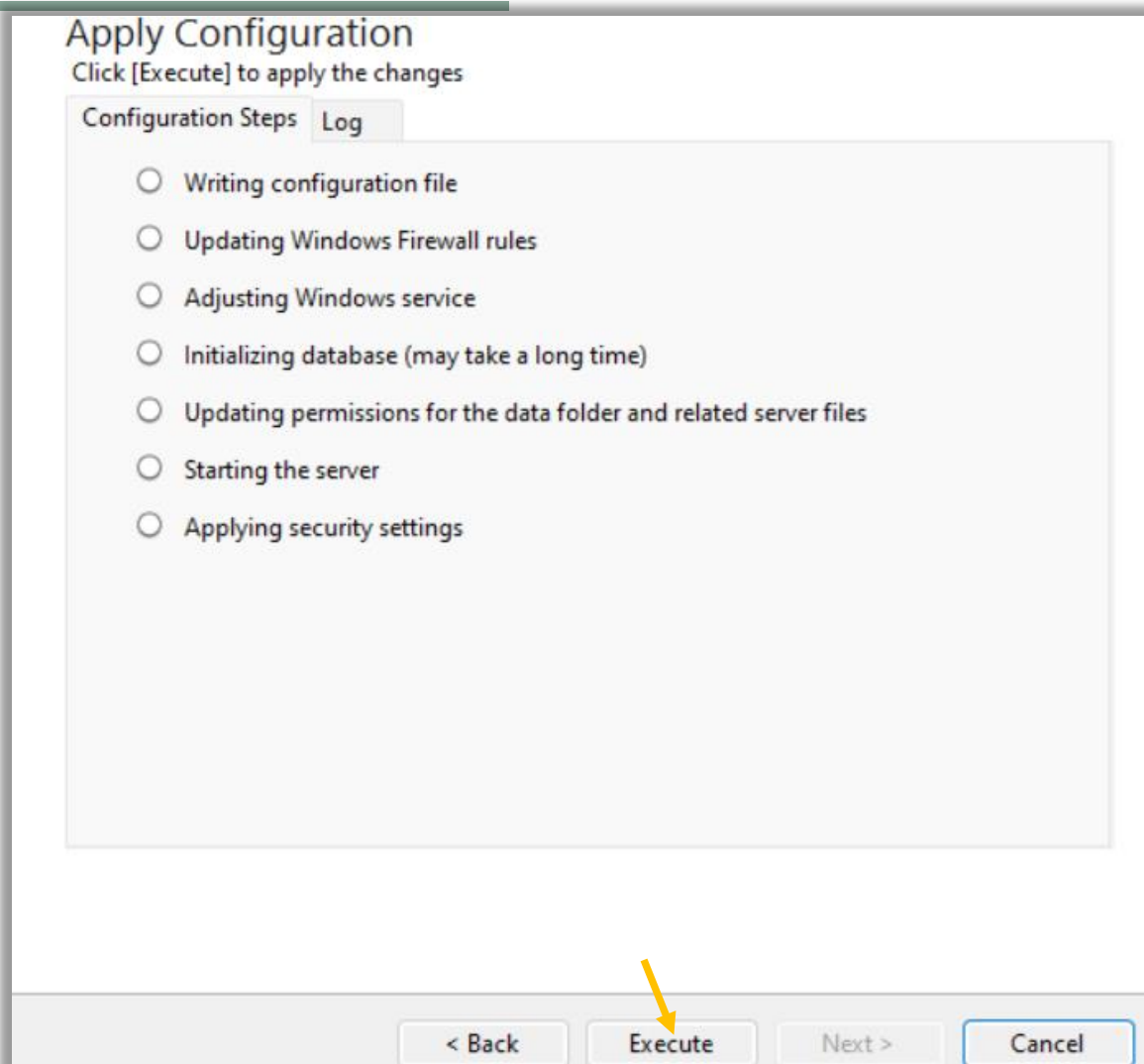
< Back

Next >

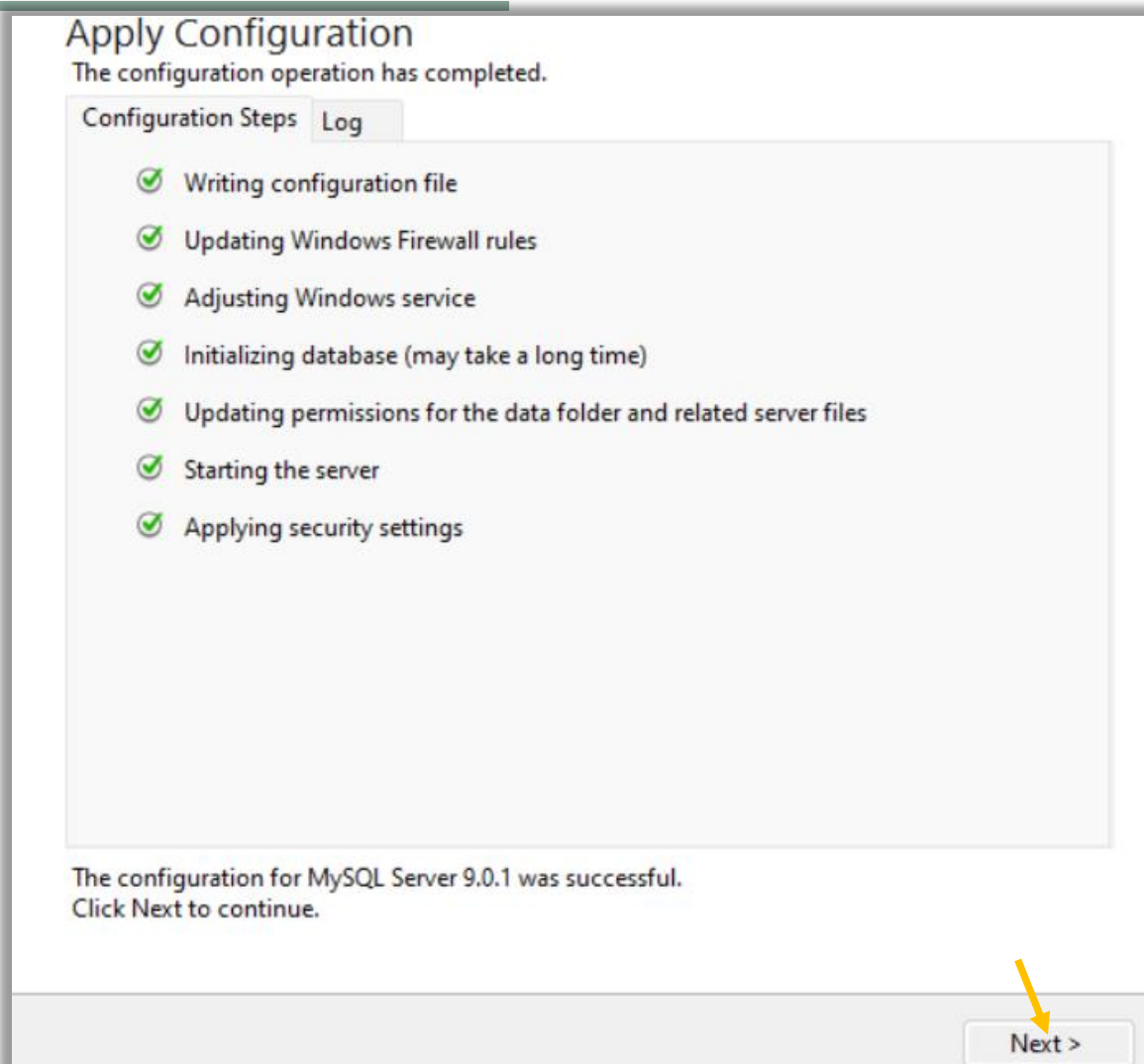
Cancel



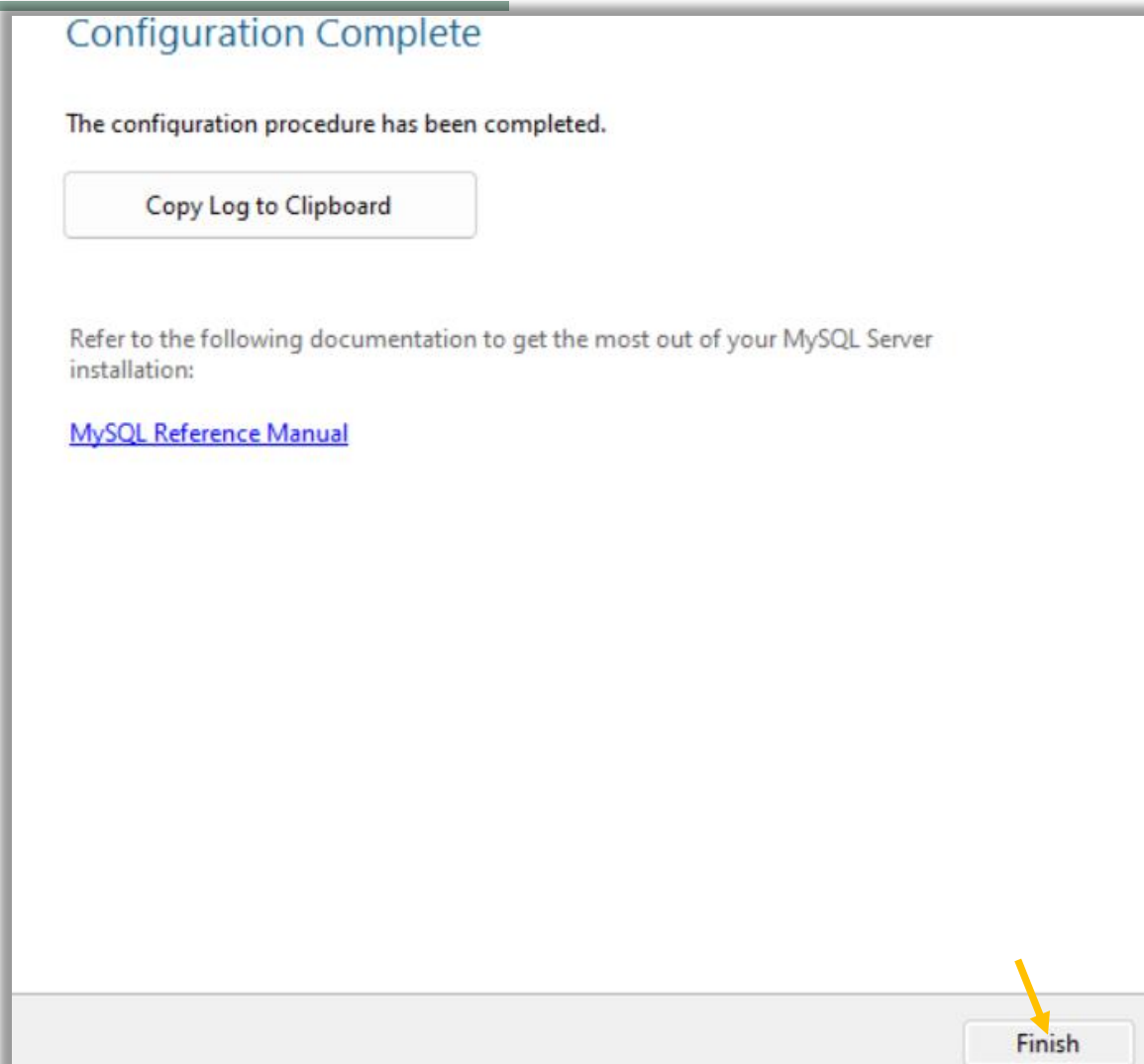
Intalação do MySQL - Configuração



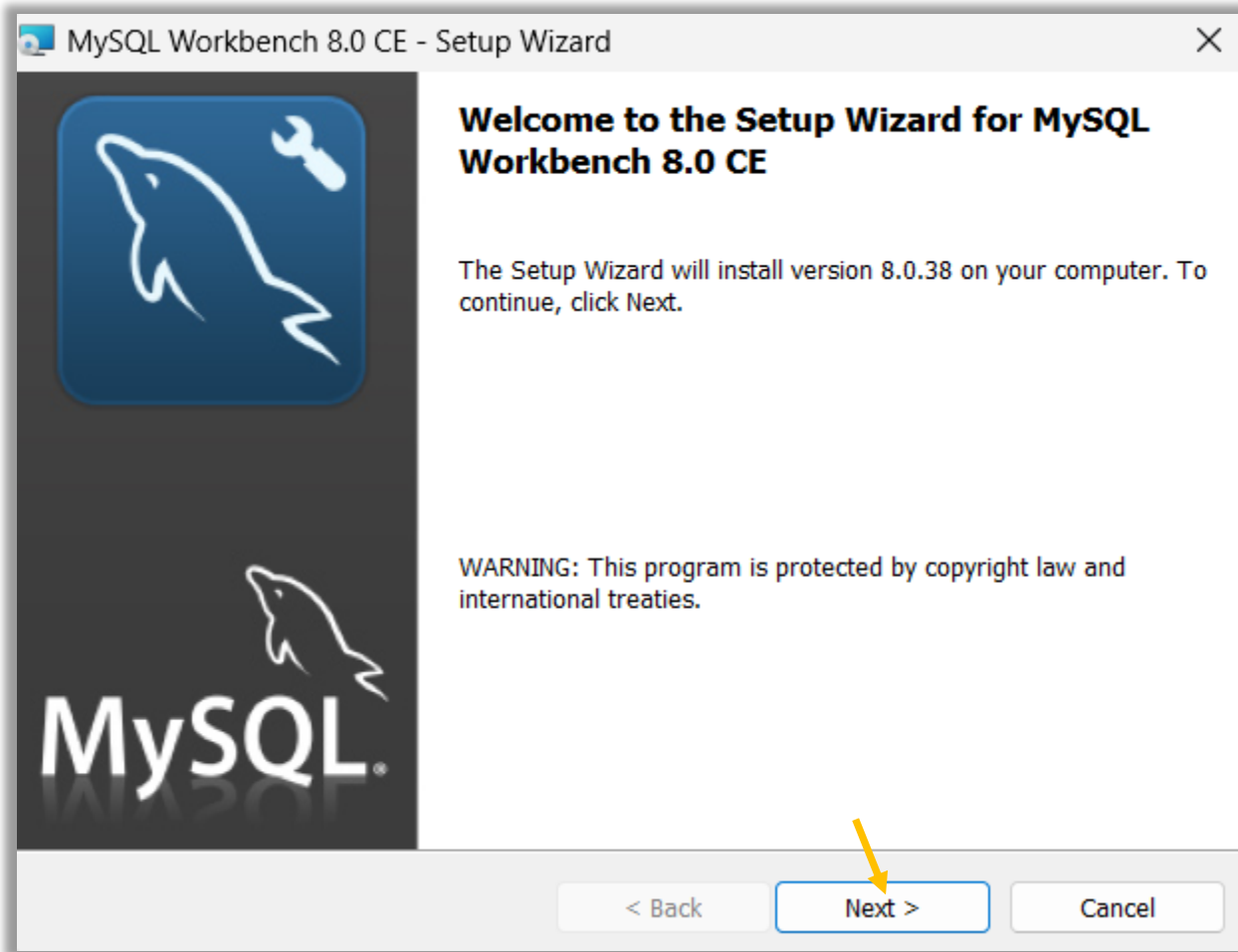
Intalação do MySQL - Configuração



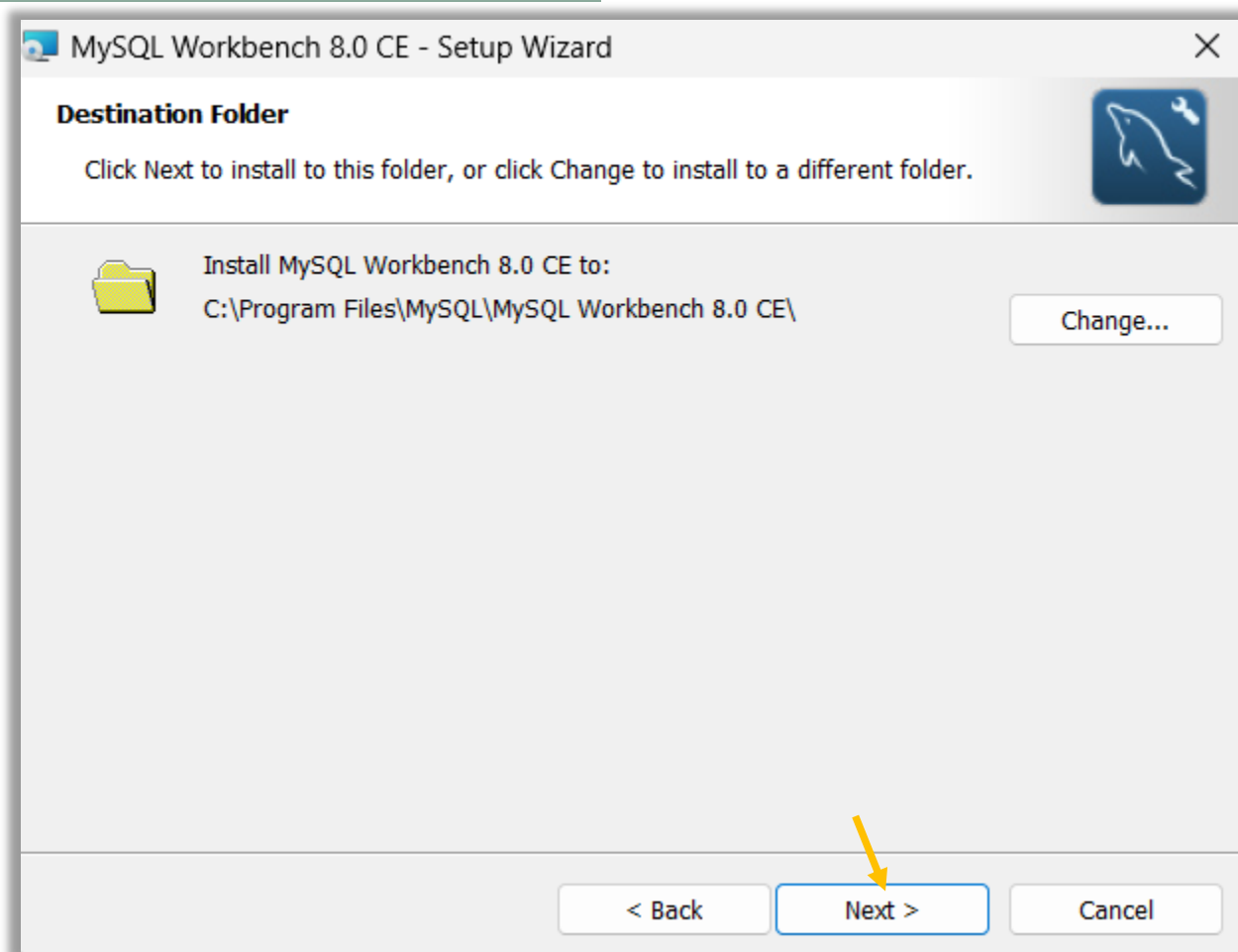
Intalação do MySQL - Configuração



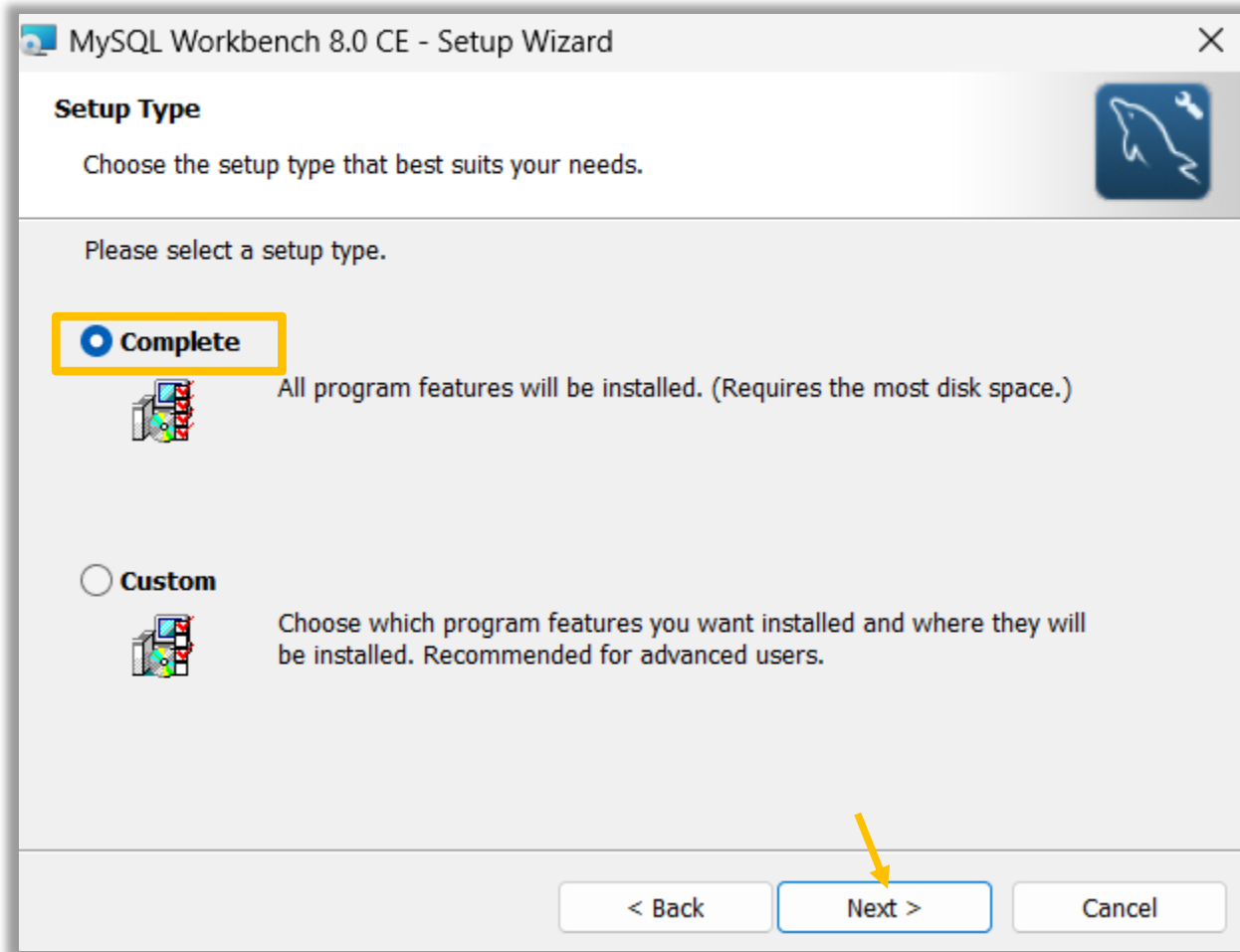
Intalação do Workbench



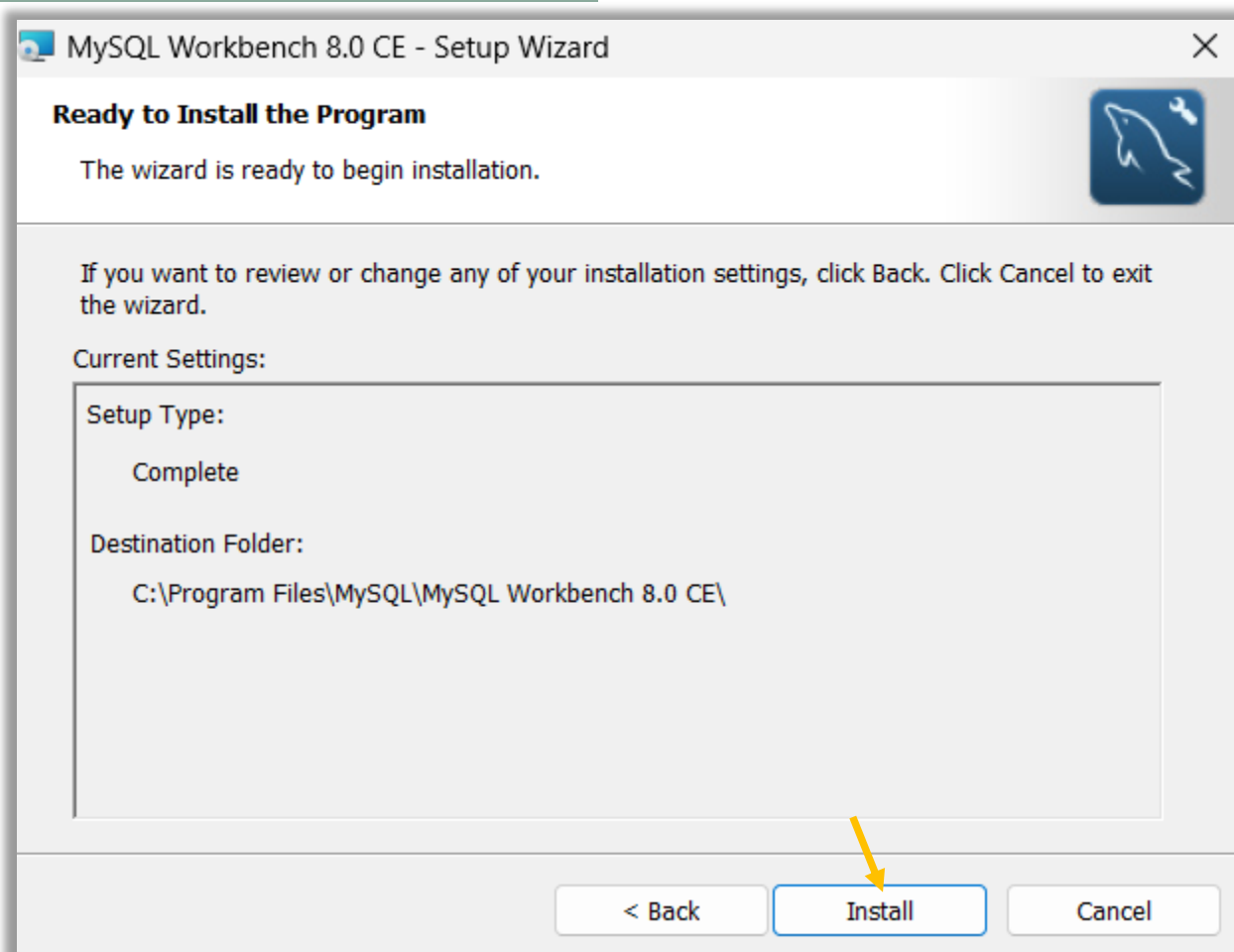
Intalação do Workbench



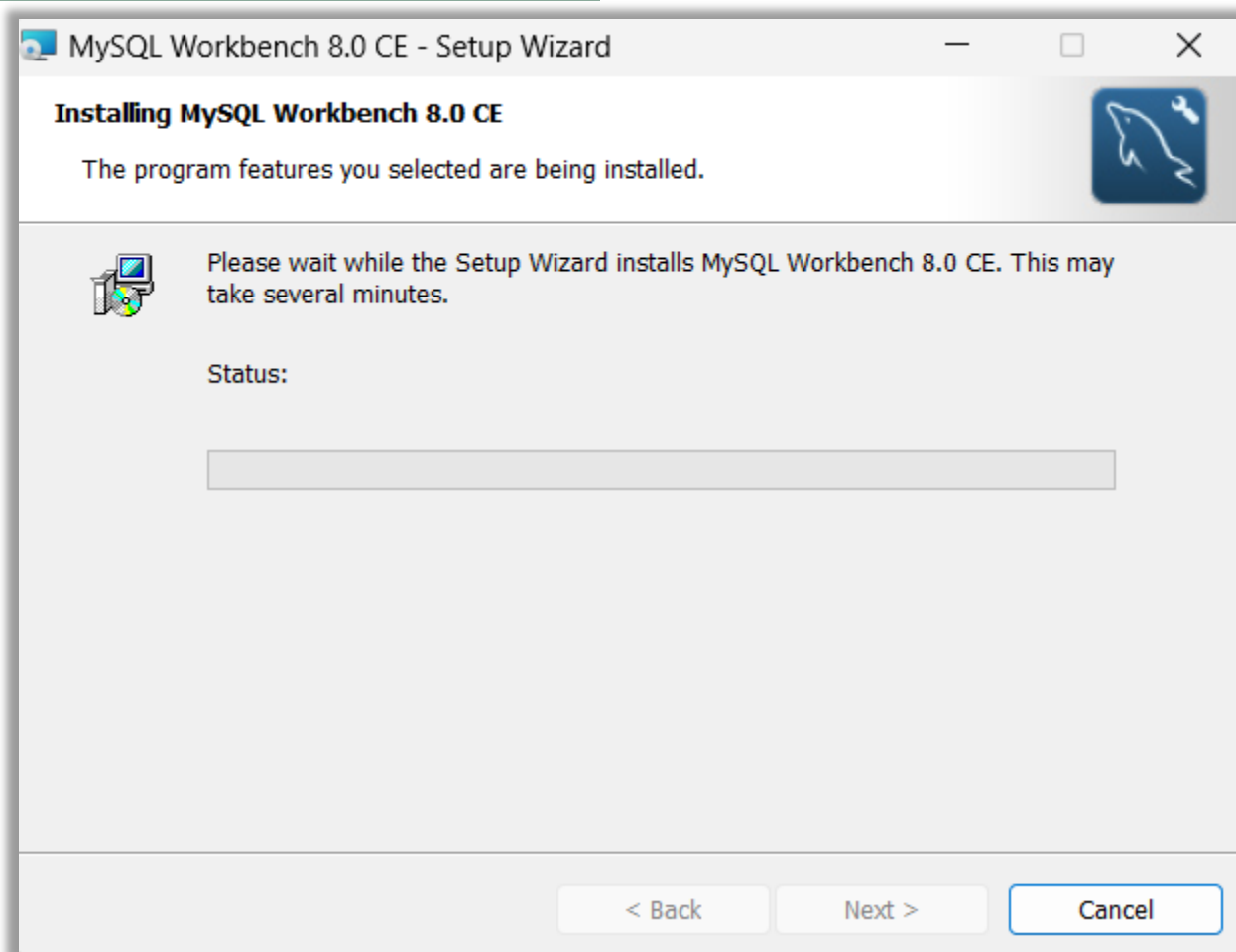
Intalação do Workbench



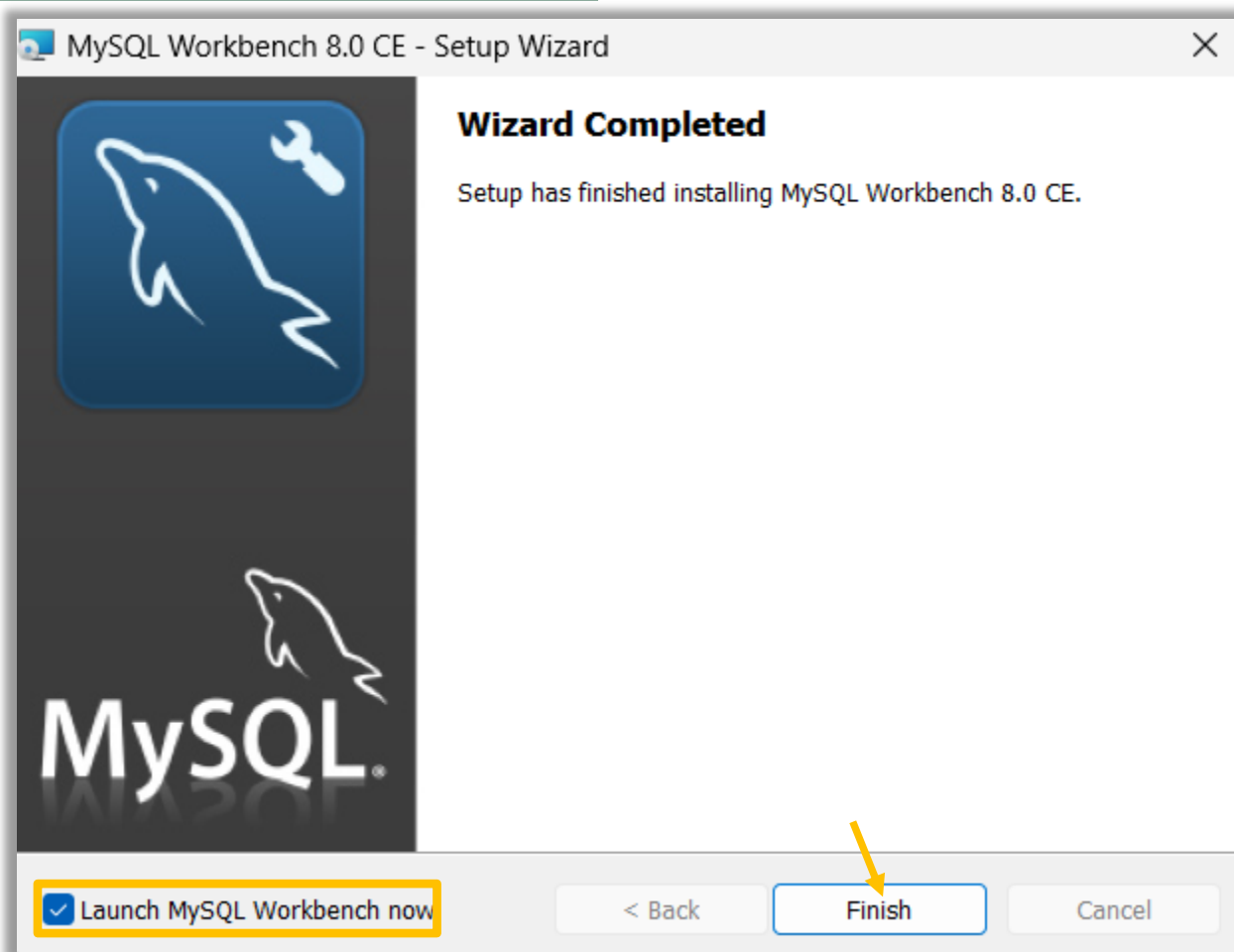
Intalação do Workbench



Intalação do Workbench



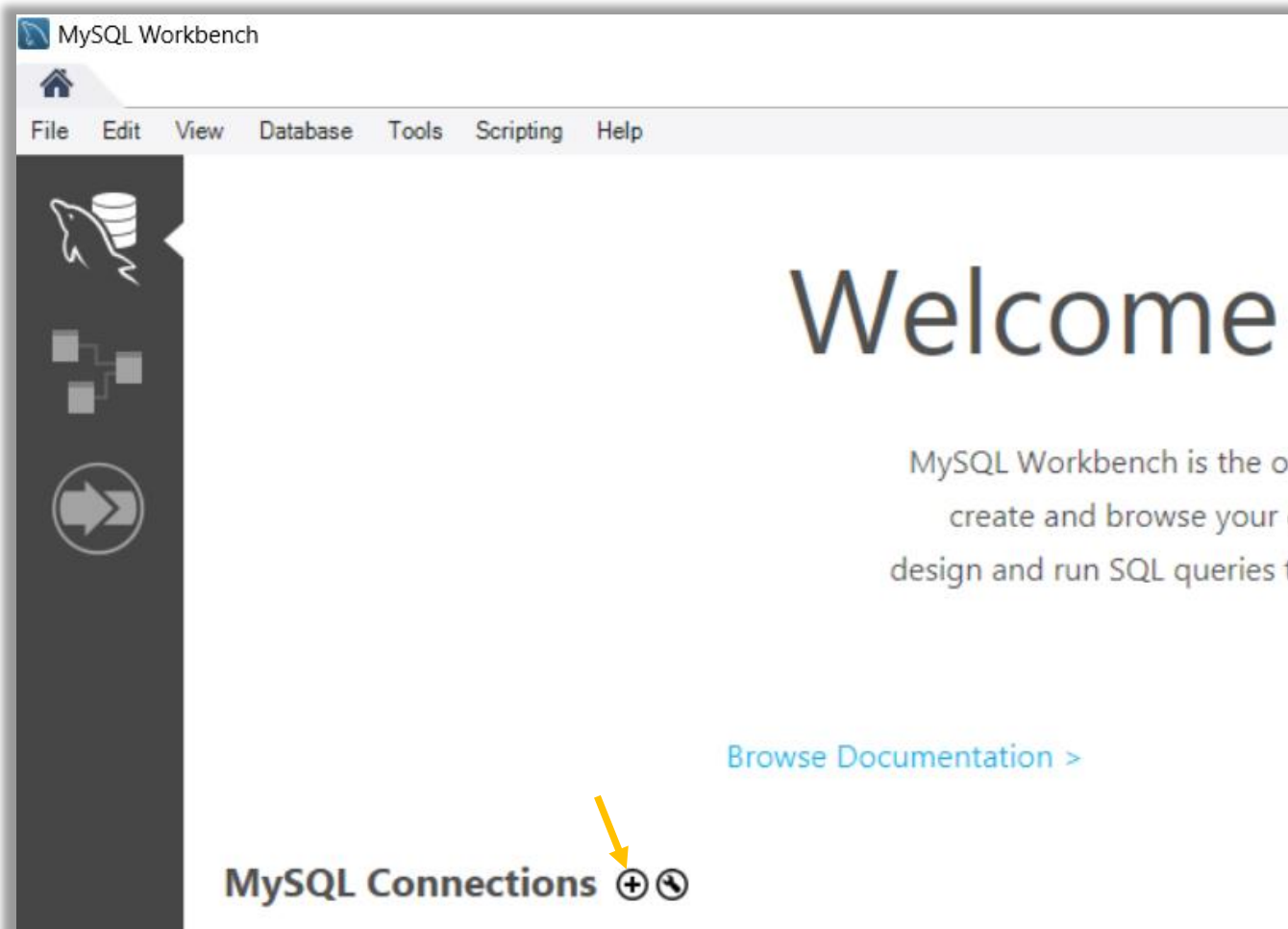
Intalação do Workbench



Workbench: Conexão com o MySQL



Workbench: Conexão com o MySQL



Workbench: Conexão com o MySQL

Setup New Connection

Connection Name: Type a name for the connection

Connection Method: Method to use to connect to the RDBMS

Parameters SSL Advanced

Hostname: Port: Name or IP address of the server host - and TCP/IP port.

Username: Name of the user to connect with.

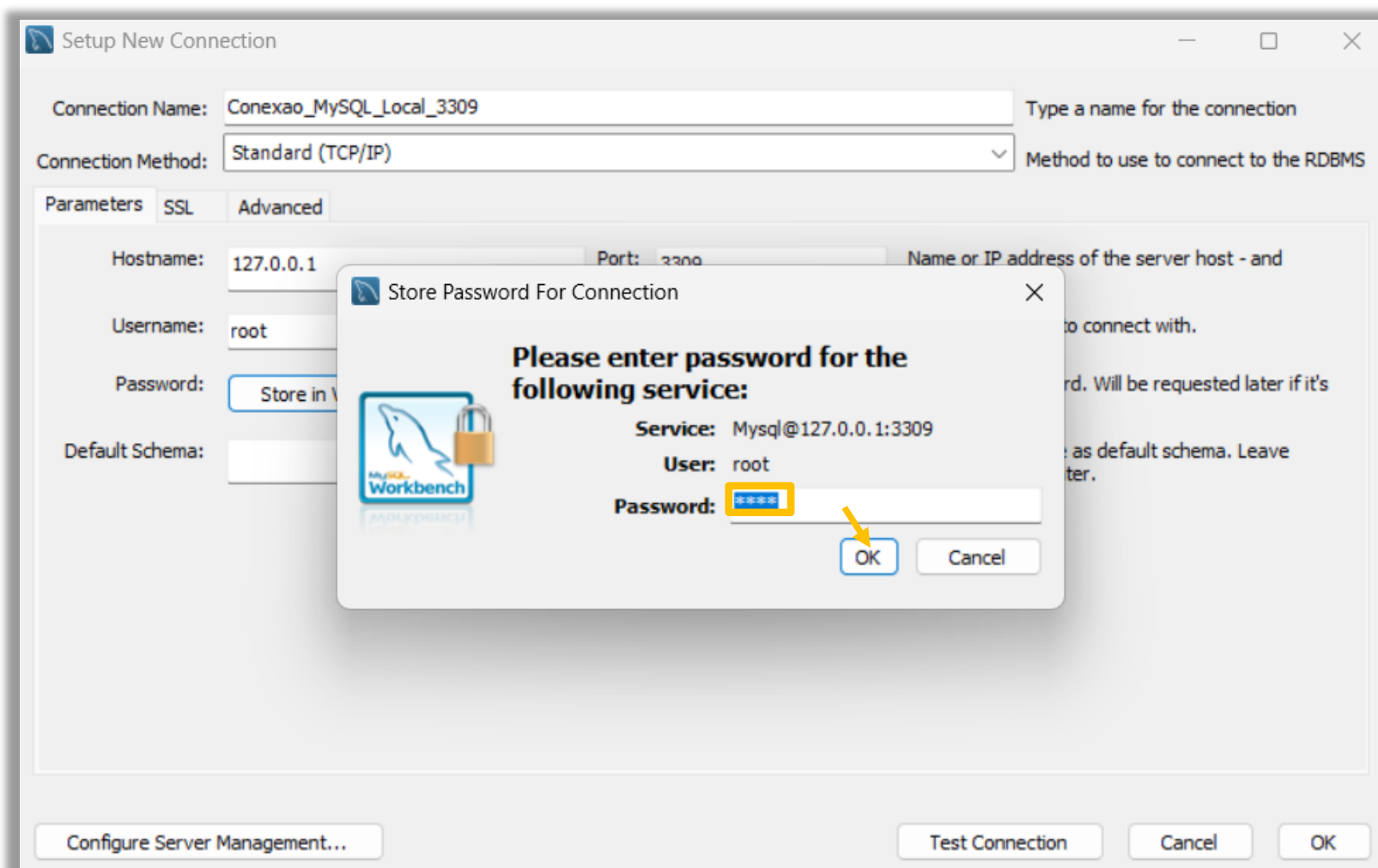
Password: Clear The user's password. Will be requested later if it's not set.

Default Schema: The schema to use as default schema. Leave blank to select it later.

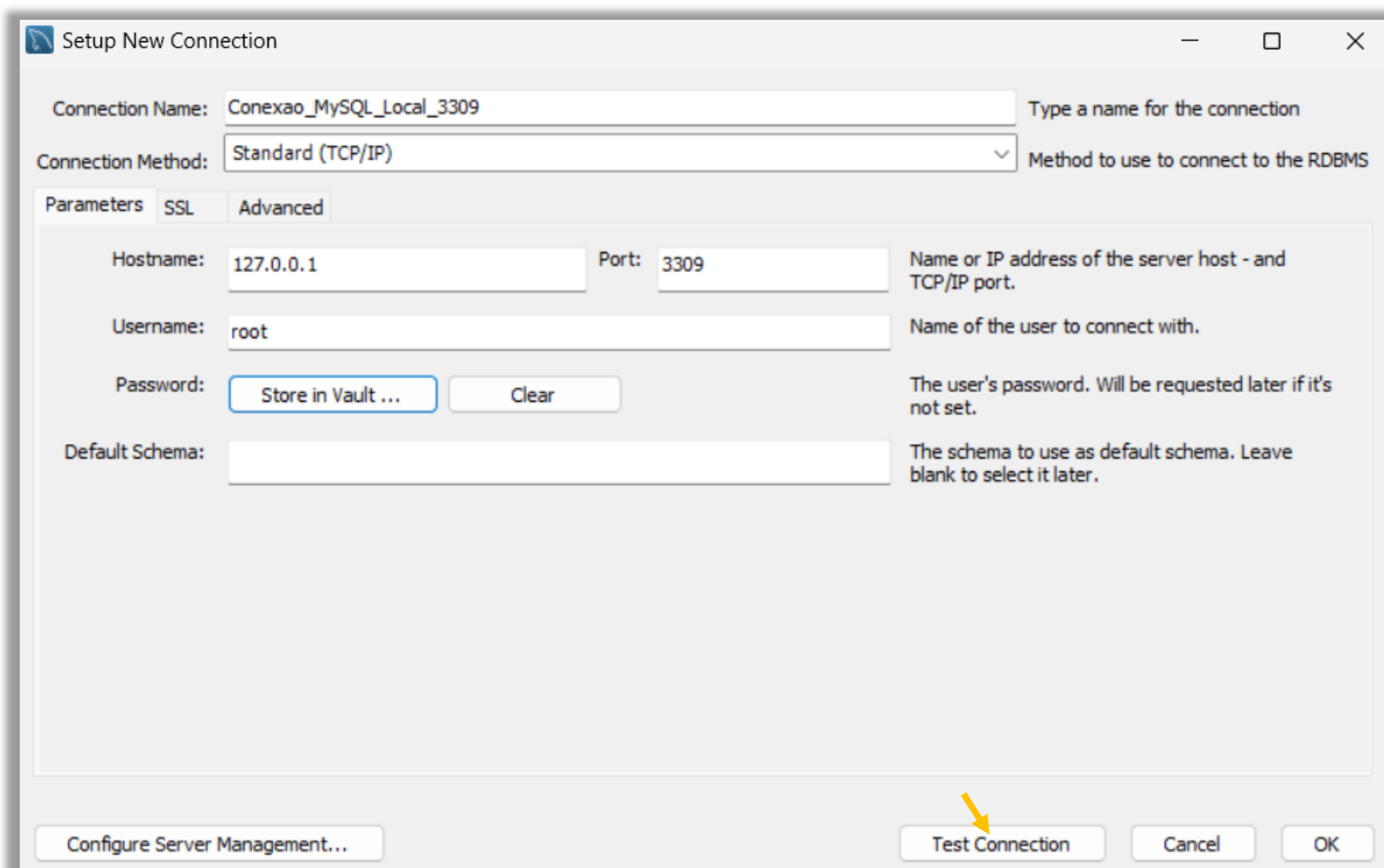
Configure Server Management... Test Connection Cancel OK



Workbench: Conexão com o MySQL



Workbench: Conexão com o MySQL



Setup New Connection

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Connection Method: Method to use to connect to the RDBMS

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Hostname: Port: Name or IP address of the server host - and TCP/IP port.

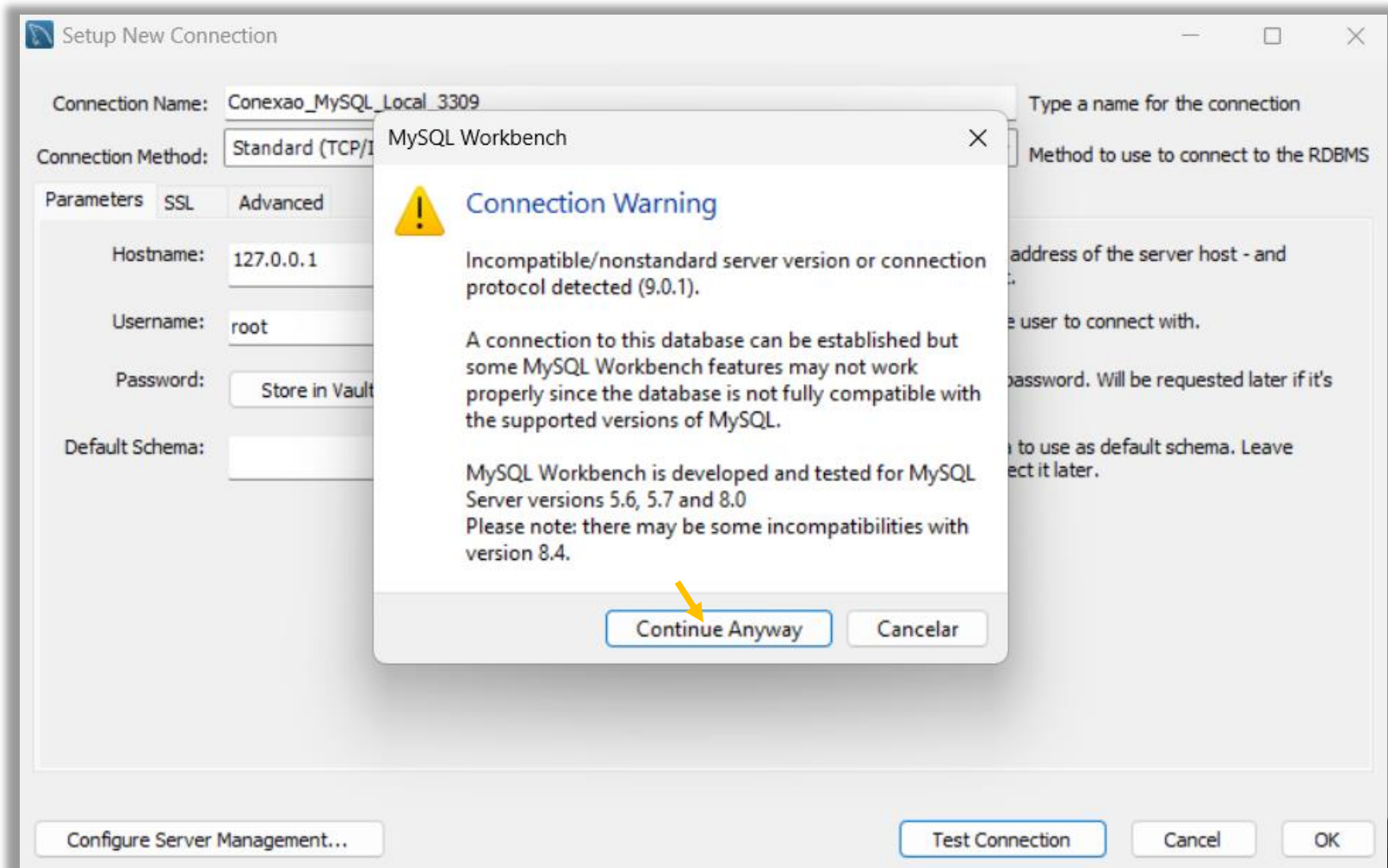
Username: Name of the user to connect with.

Password: The user's password. Will be requested later if it's not set.

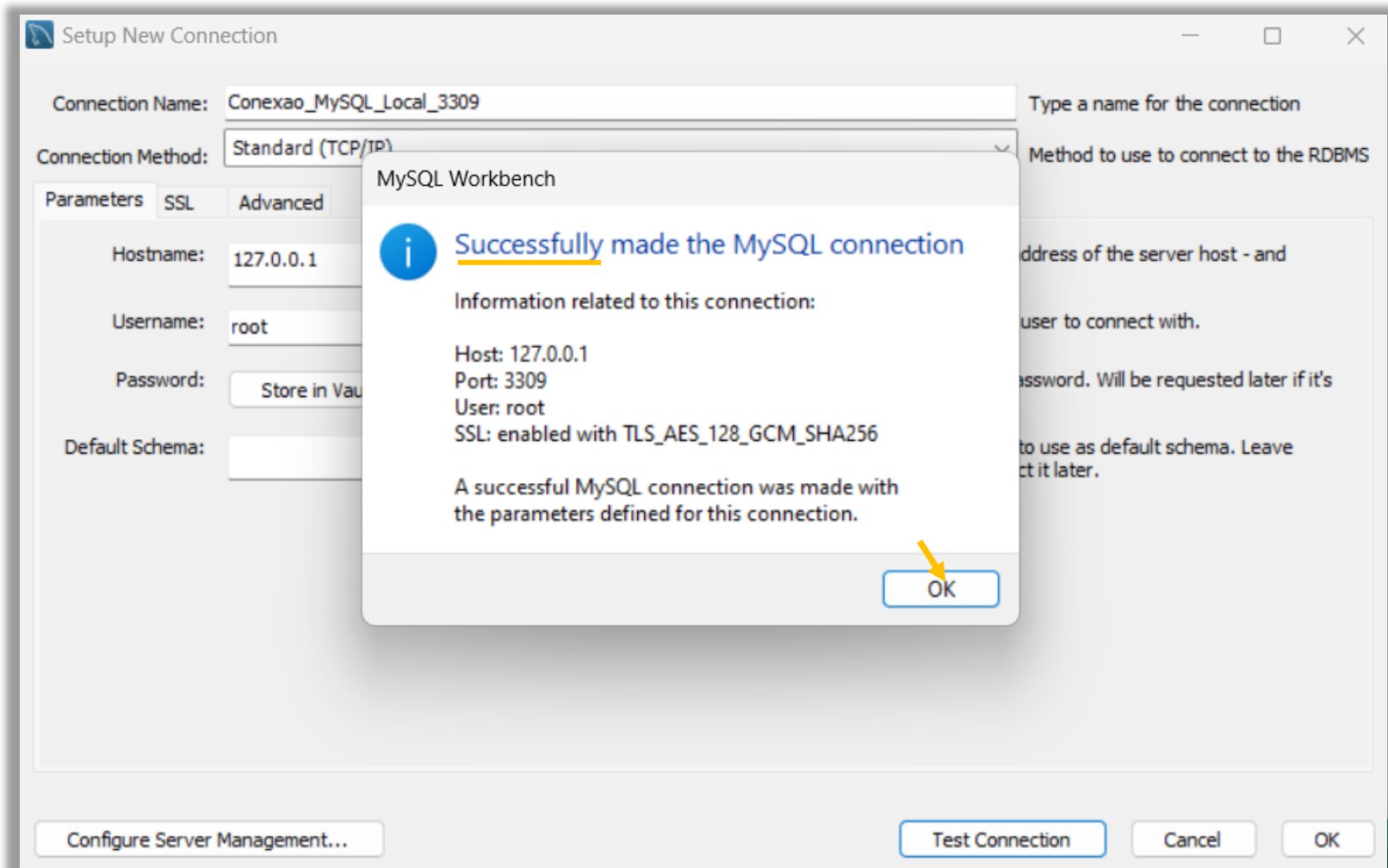
Default Schema: The schema to use as default schema. Leave blank to select it later.



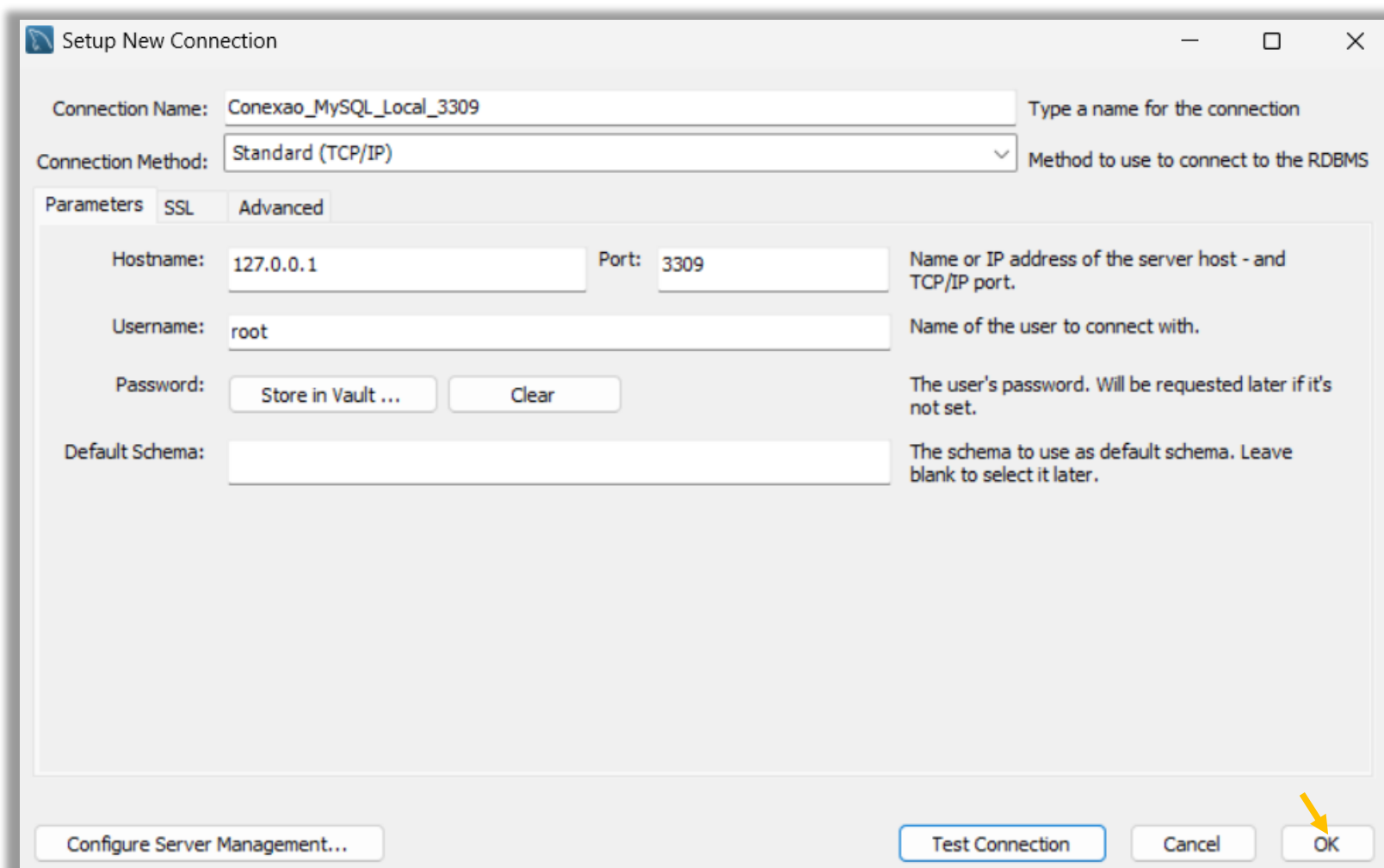
Workbench: Conexão com o MySQL



Workbench: Conexão com o MySQL



Workbench: Conexão com o MySQL



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Connection Method: Method to use to connect to the RDBMS

Parameters SSL Advanced

Hostname: Port: Name or IP address of the server host - and TCP/IP port.

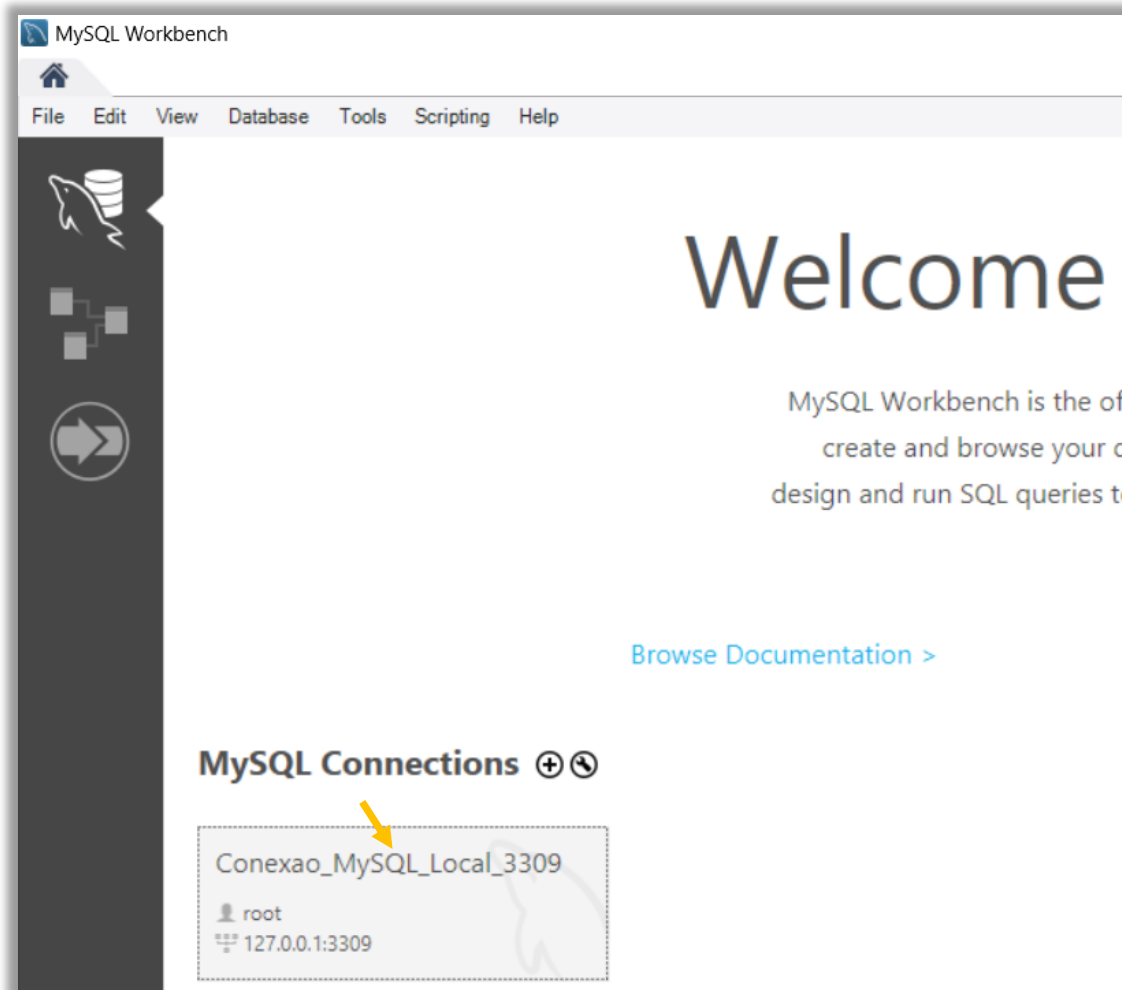
Username: Name of the user to connect with.

Password: The user's password. Will be requested later if it's not set.

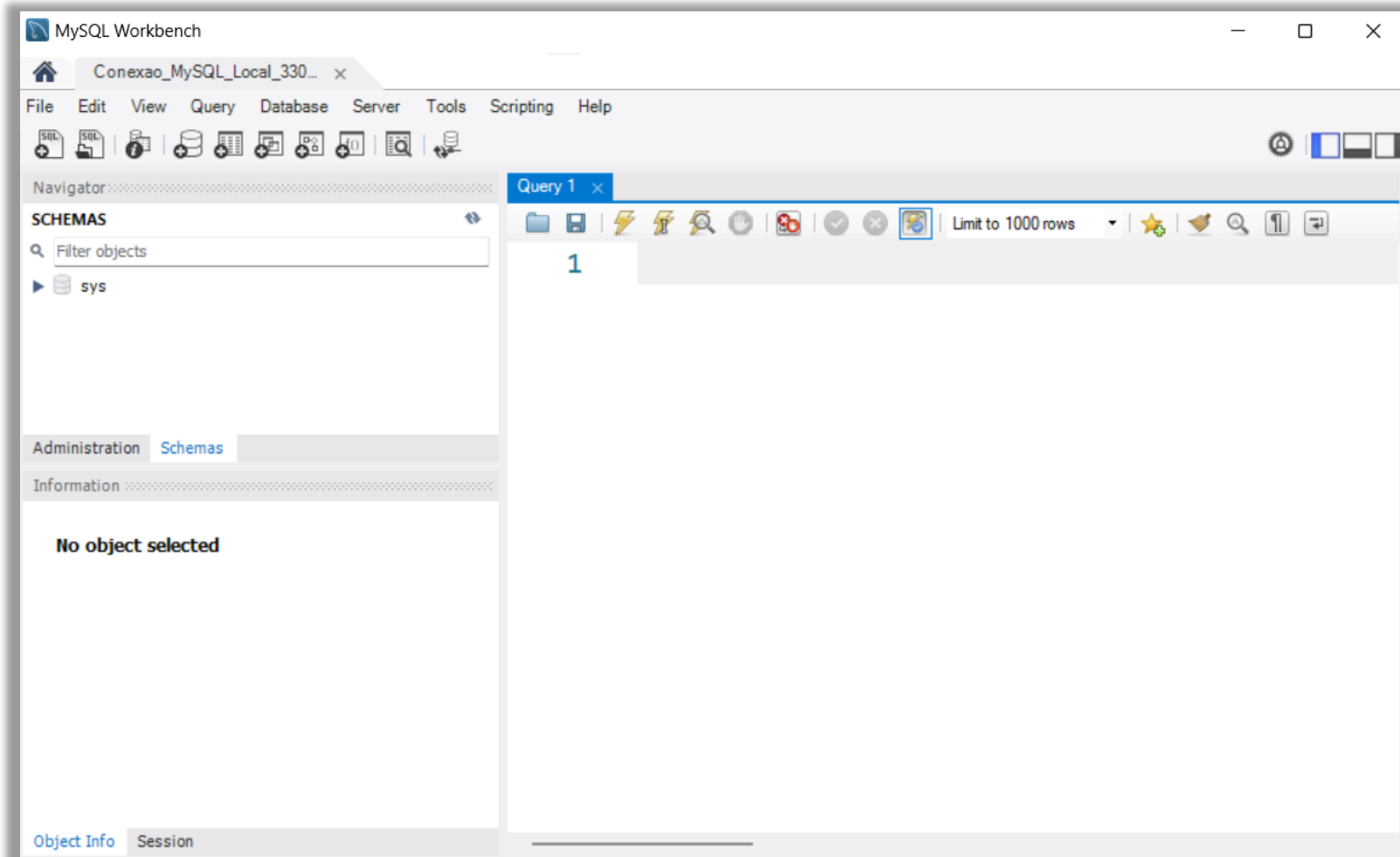
Default Schema: The schema to use as default schema. Leave blank to select it later.



Workbench: Conexão com o MySQL



Workbench: Conexão com o MySQL



Query 1 ×

Filter objects

▶  sys

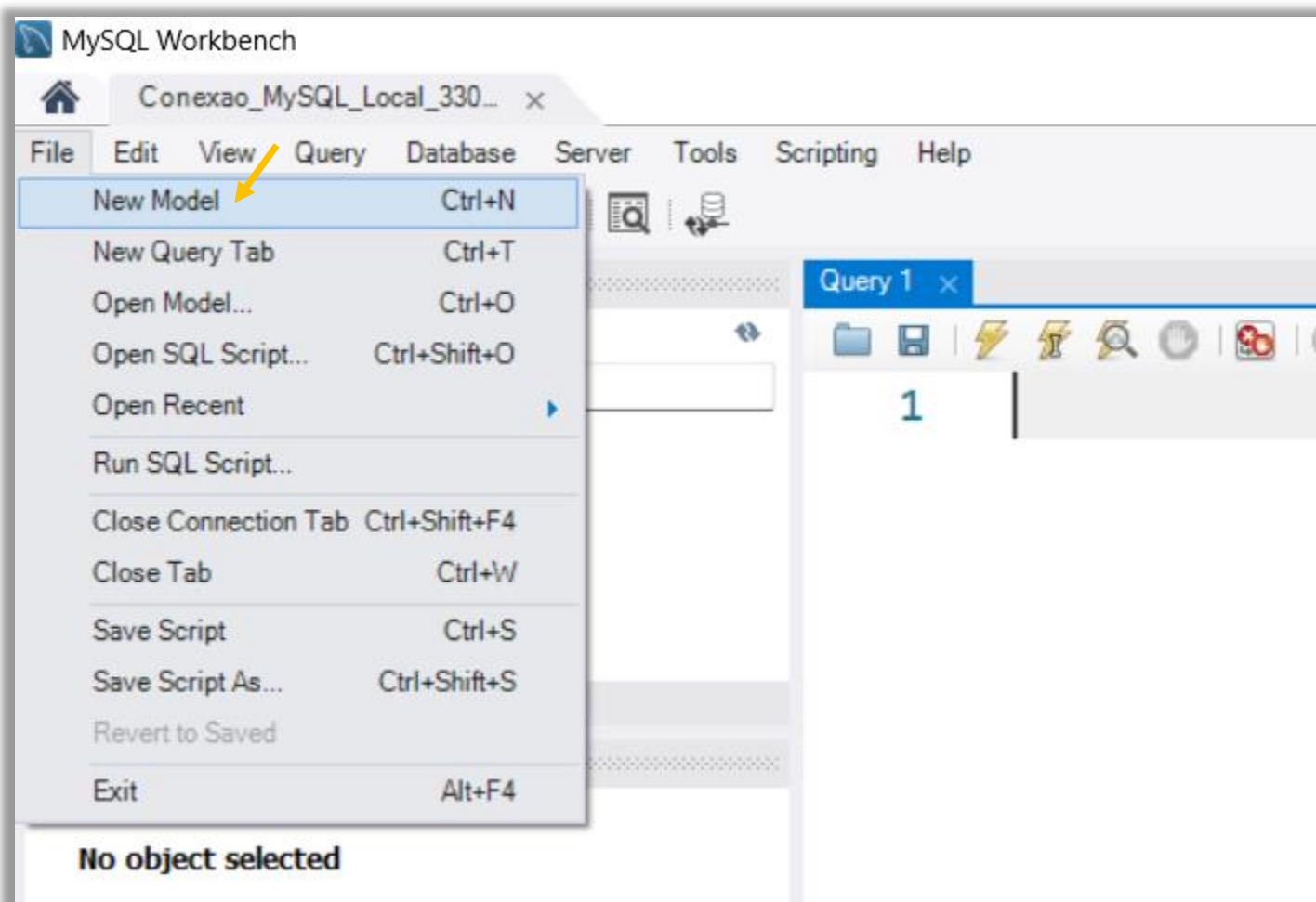
Administration Schemas

Information :

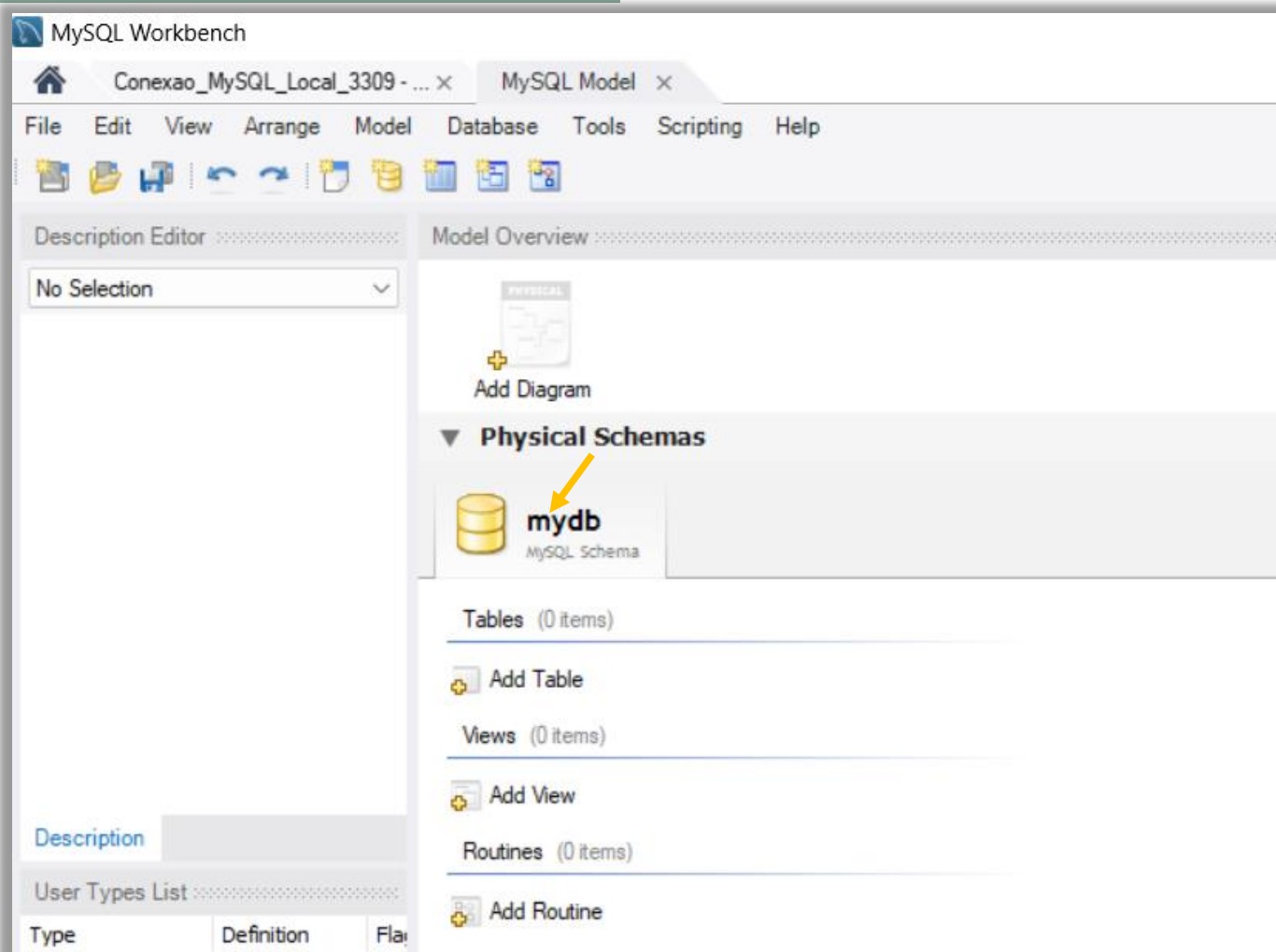
No object selected

Object Info Session

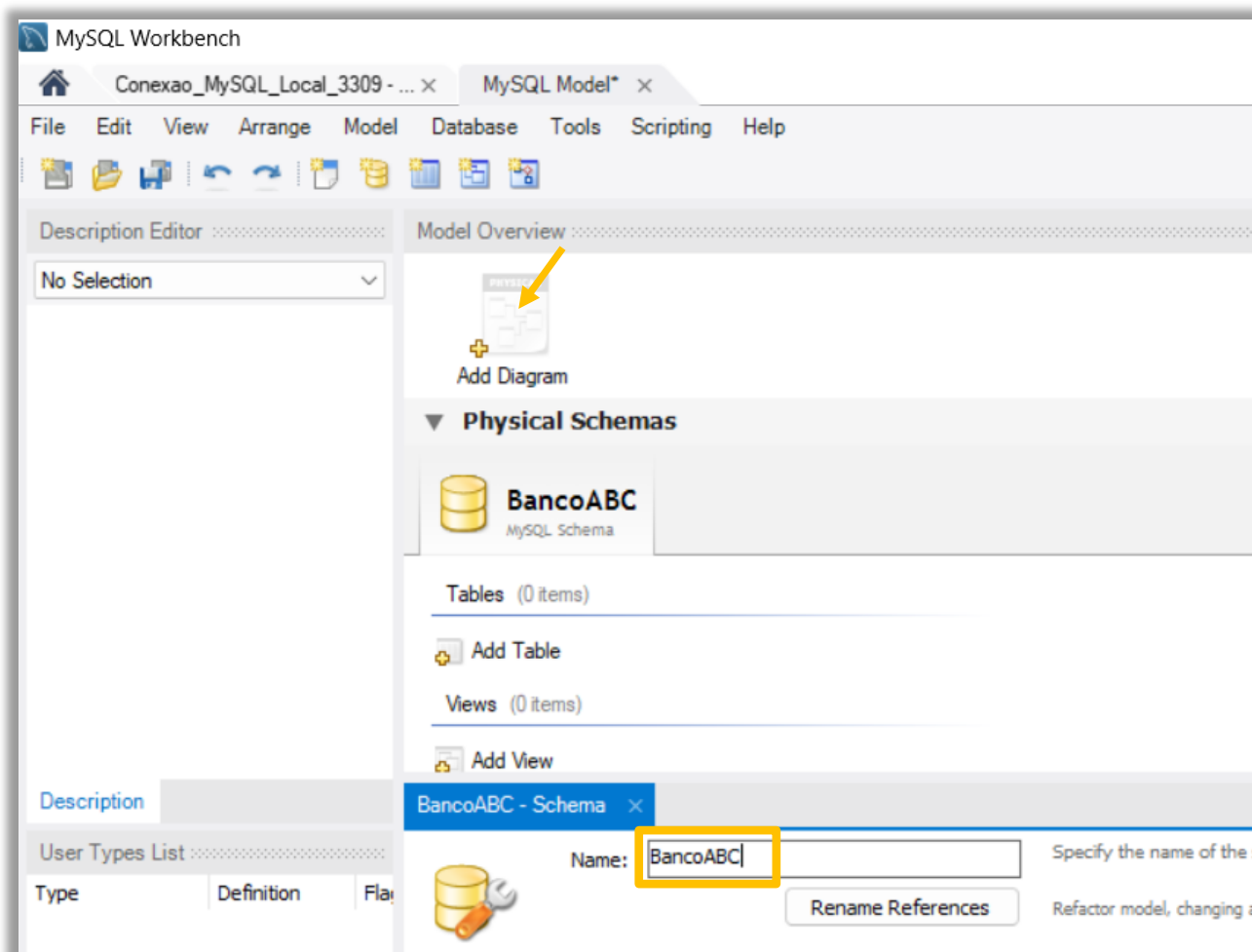
Modelagem Lógica: Criação do Modelo



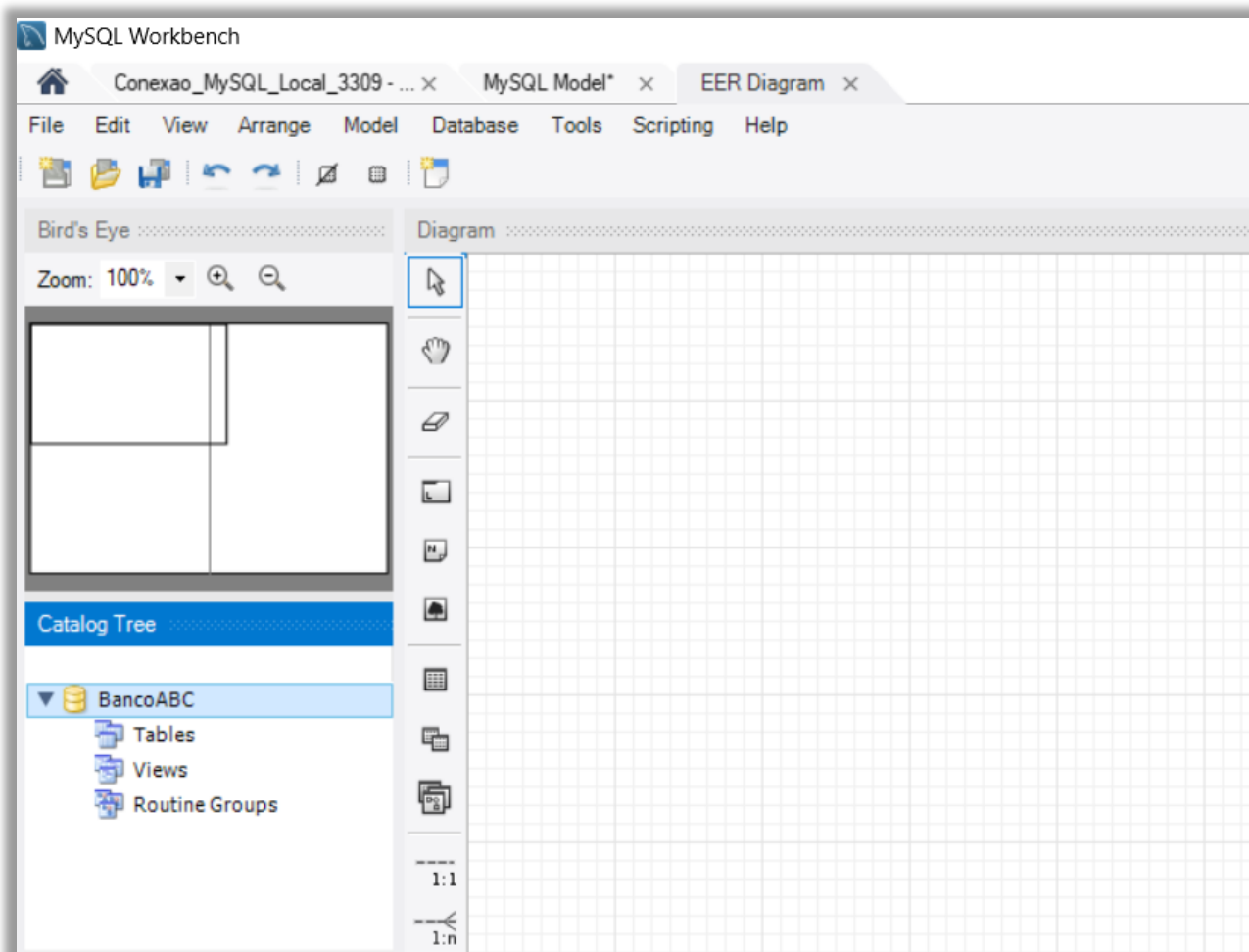
Modelagem Lógica: Criação do Modelo



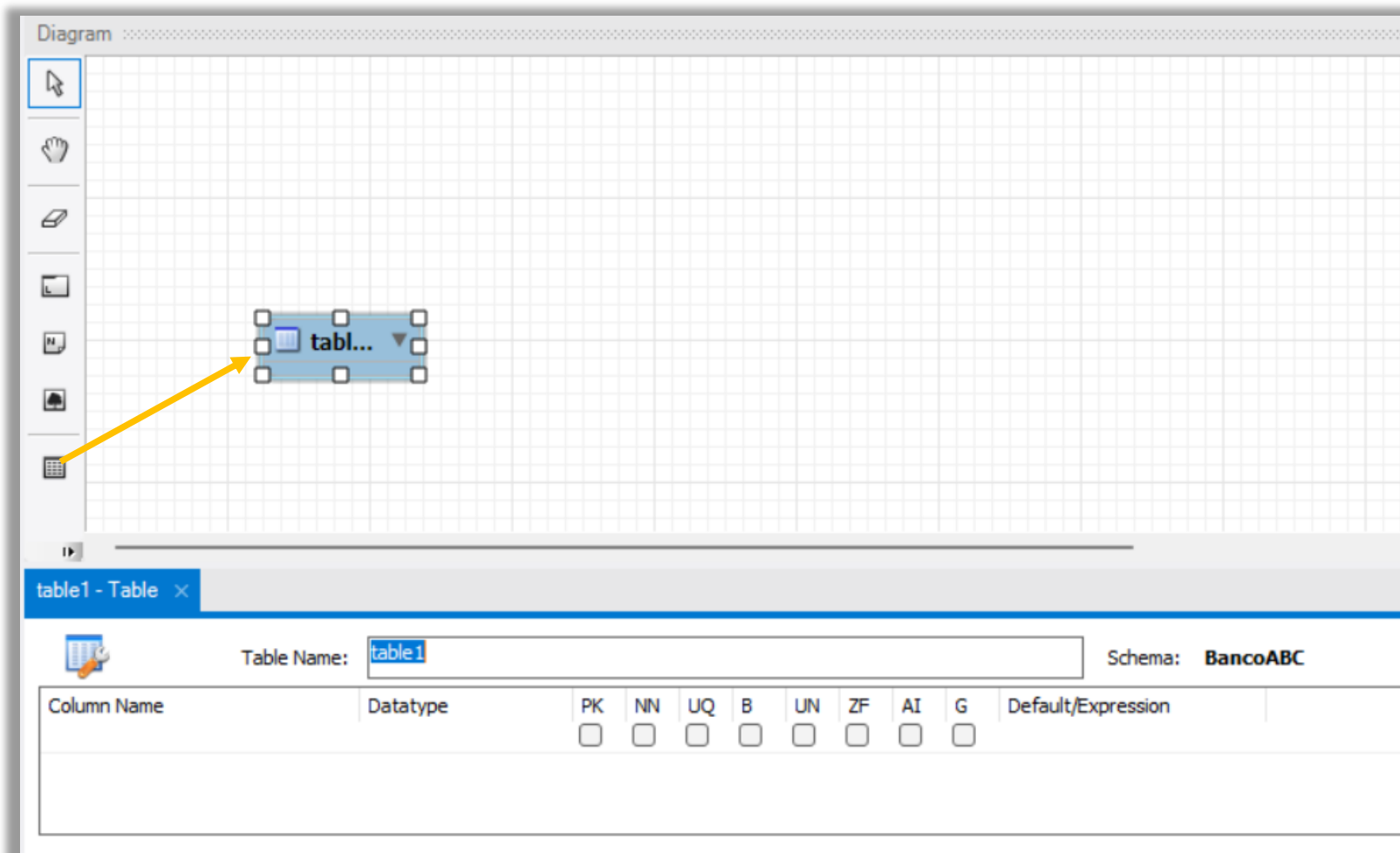
Modelagem Lógica: Criação do Modelo



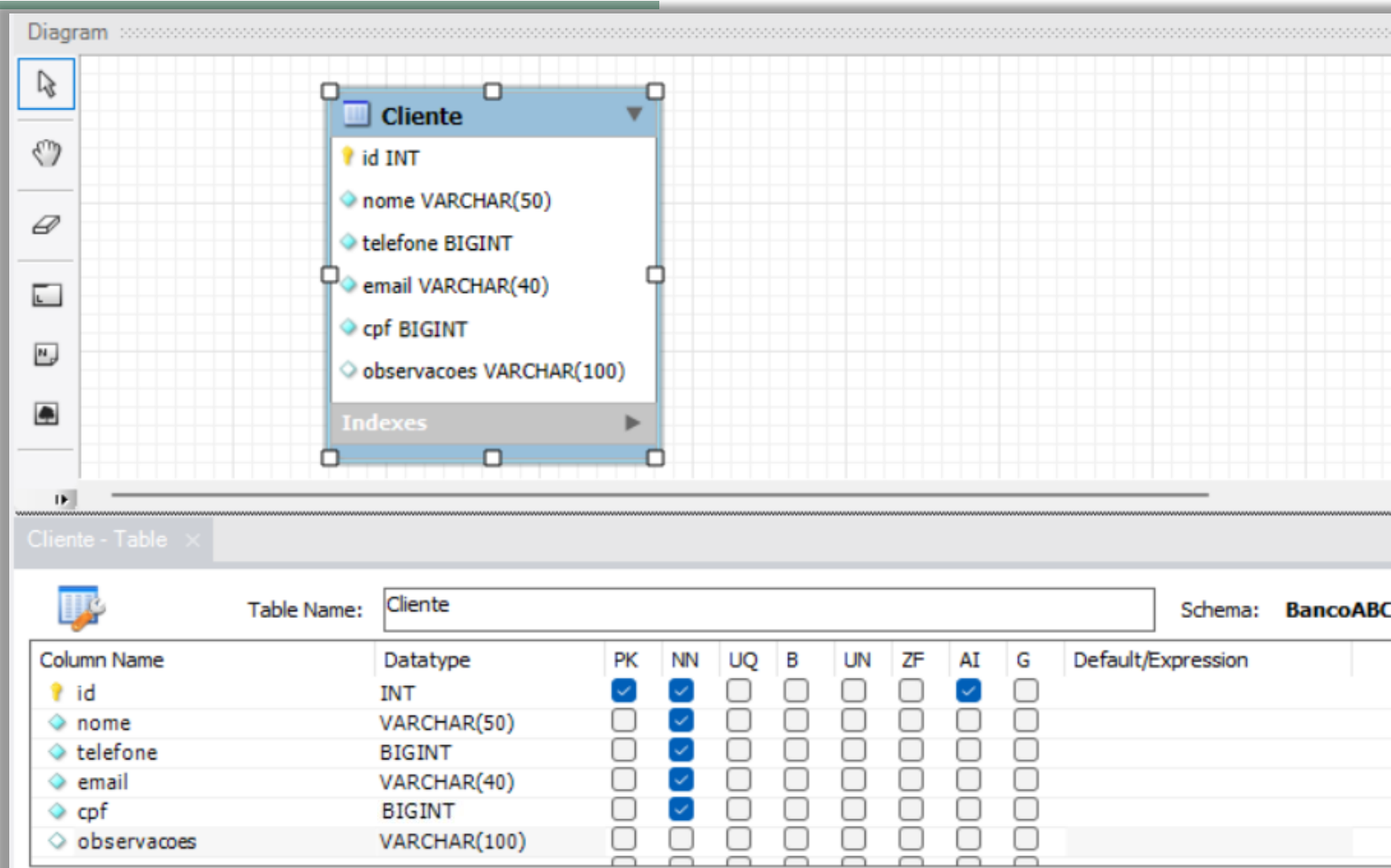
Modelagem Lógica: Criação do Modelo



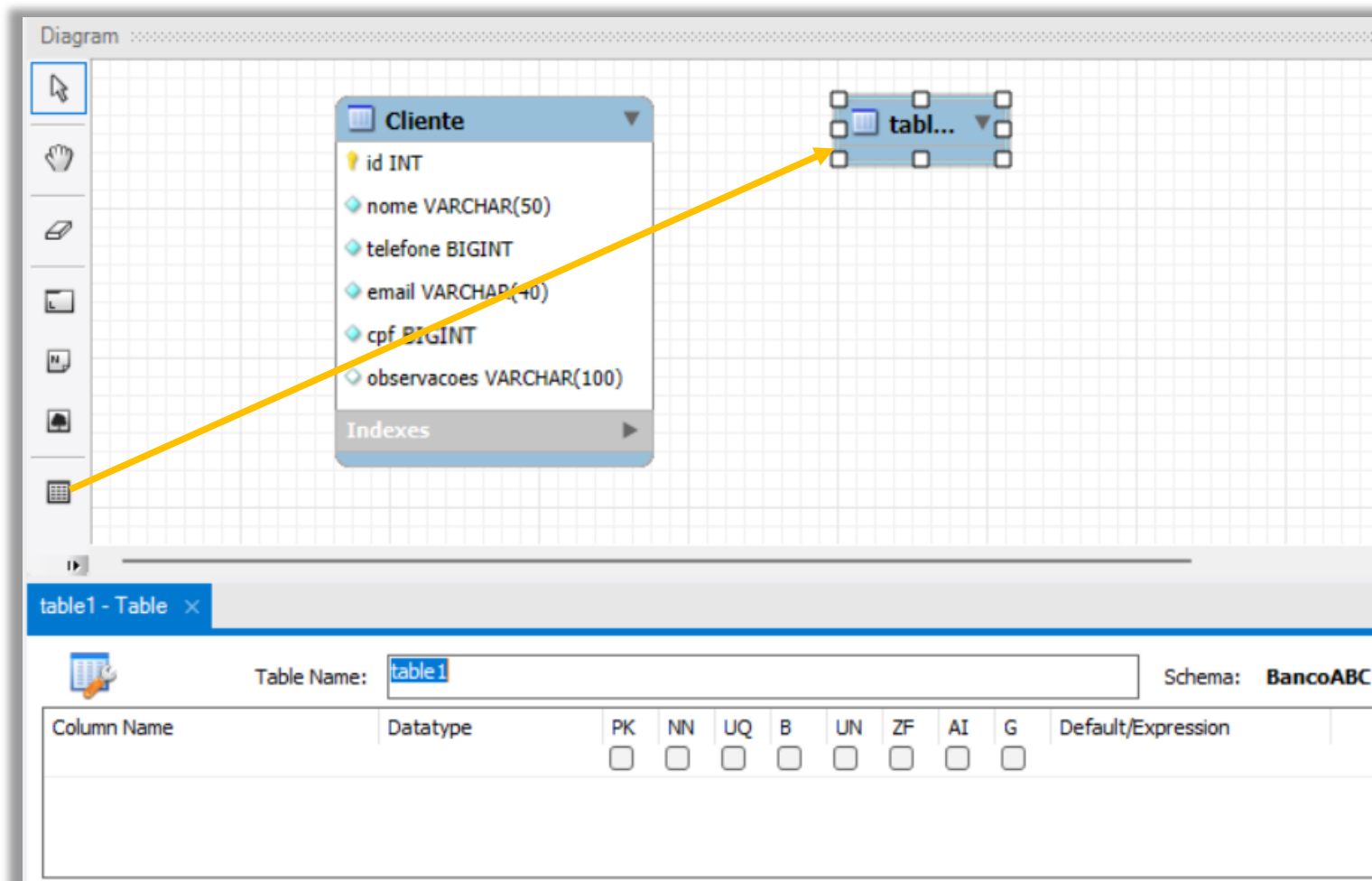
Modelagem Lógica: Criação de Tabelas



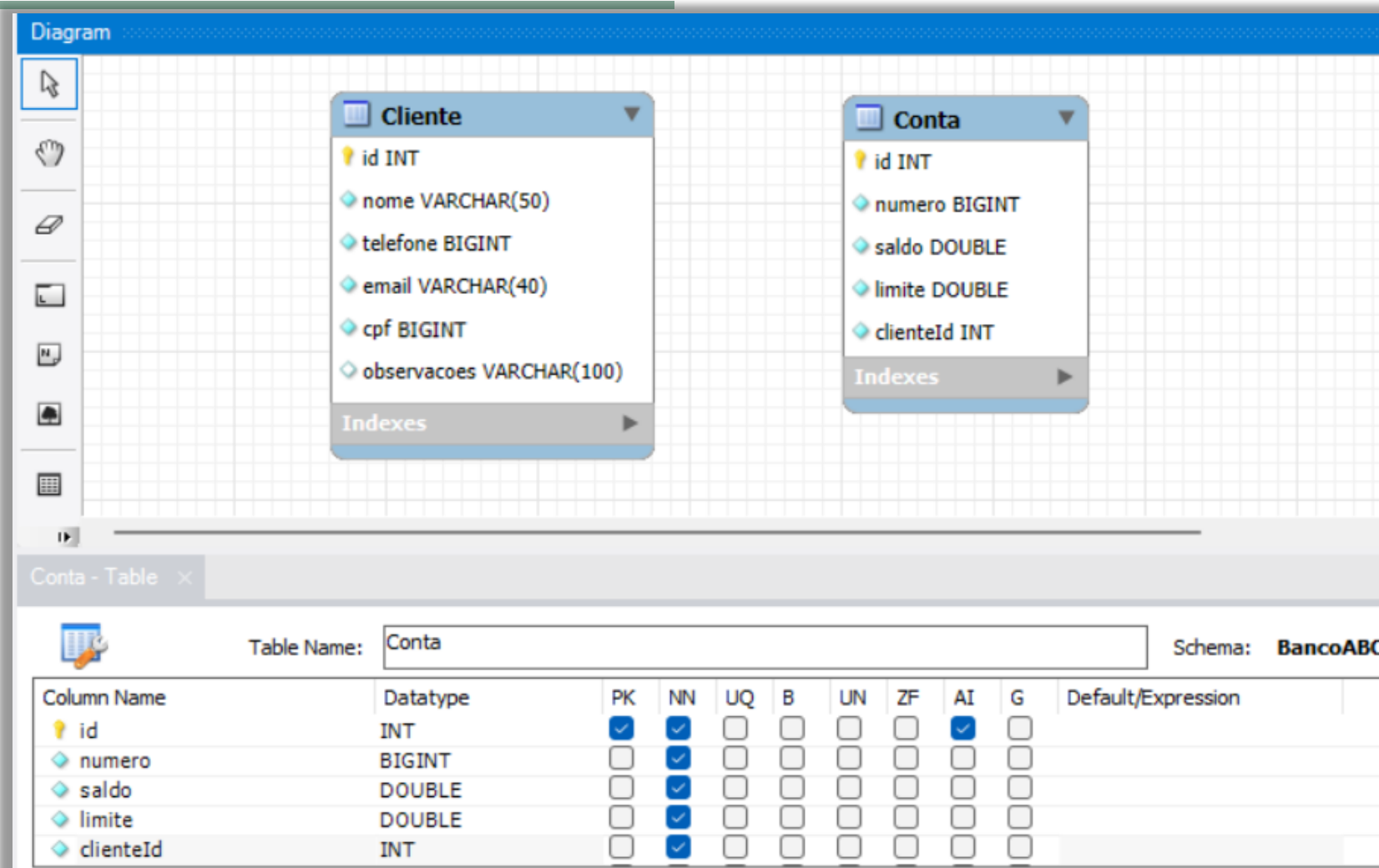
Modelagem Lógica: Criação de Tabelas



Modelagem Lógica: Criação de Tabelas









Modelagem Lógica: Criação de Tabelas



M. Lógica: Criação de Relacionamentos

Conta - Table x

 Table Name: Schema: **BancoABC**

Column Name	Datatype	PK	NN	UQ	B	UN	ZF	AI	G	Default/Expression
 id	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"/>	
 numero	BIGINT	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
 saldo	DOUBLE	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
 limite	DOUBLE	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
 clienteId	INT	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

Column Name:

Charset/Collation:

Comments:

Columns

Indexes

Foreign Keys

Triggers

Partitioning

Options

Inserts

Privileges



M. Lógica: Criação de Relacionamentos

Conta - Table x

Table Name: Schema: **BancoABC**

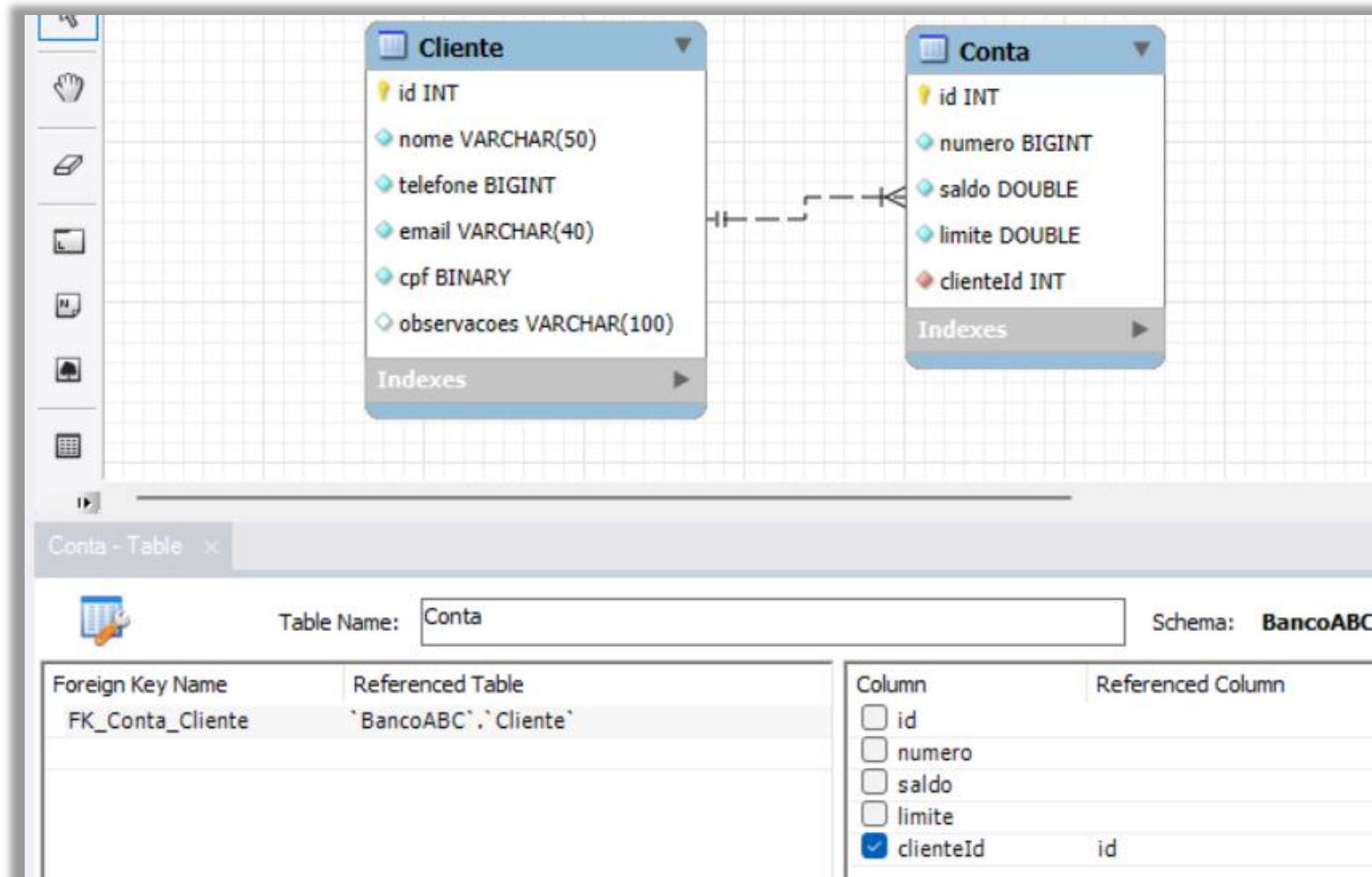
Foreign Key Name	Referenced Table
FK_Conta_Cliente	`BancoABC`.`Cliente`

Column	Referenced Column
<input type="checkbox"/> id	
<input type="checkbox"/> numero	
<input type="checkbox"/> saldo	
<input type="checkbox"/> limite	
<input checked="" type="checkbox"/> clienteId	id

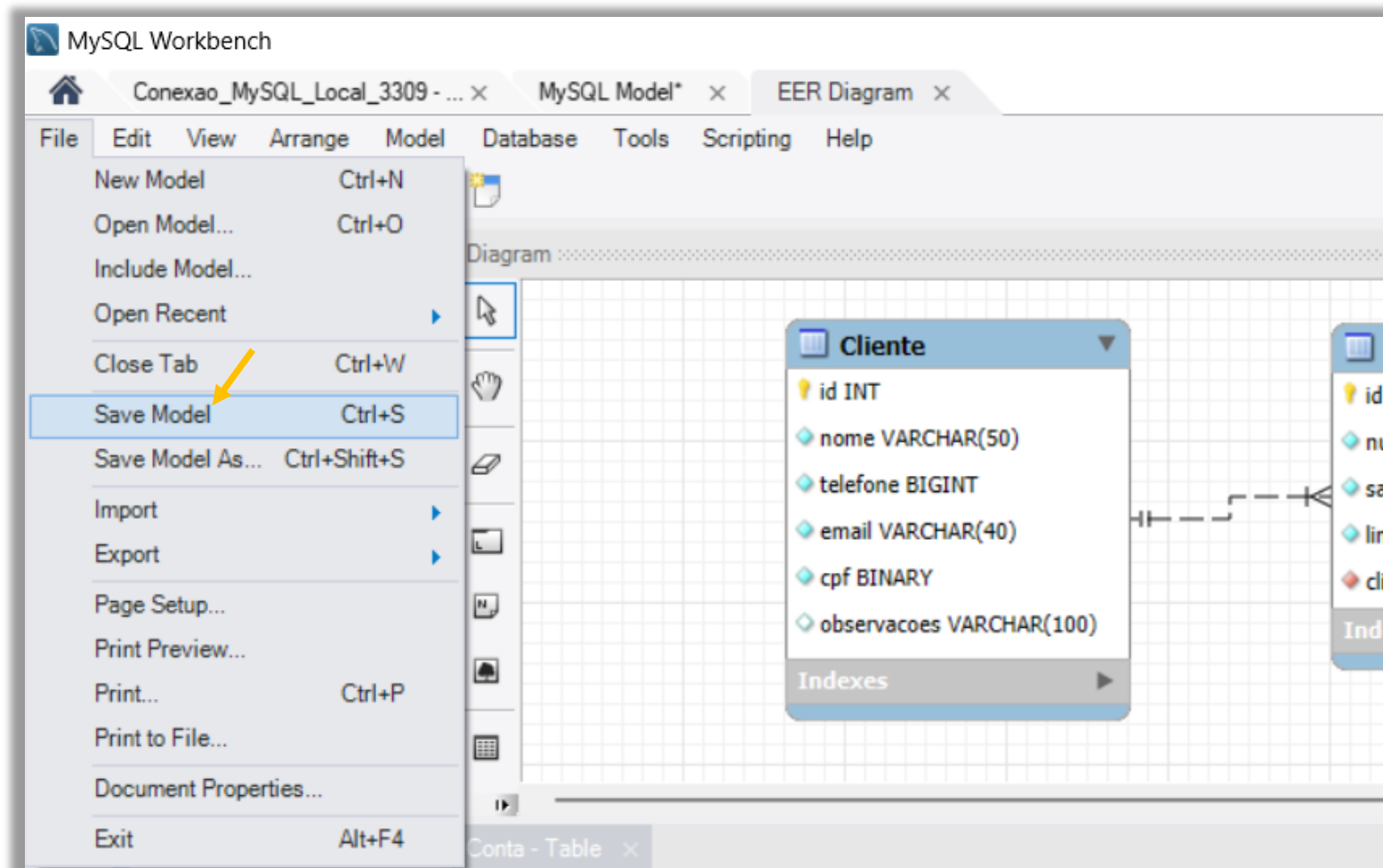
Columns Indexes **Foreign Keys** Triggers Partitioning Options Inserts Privileges



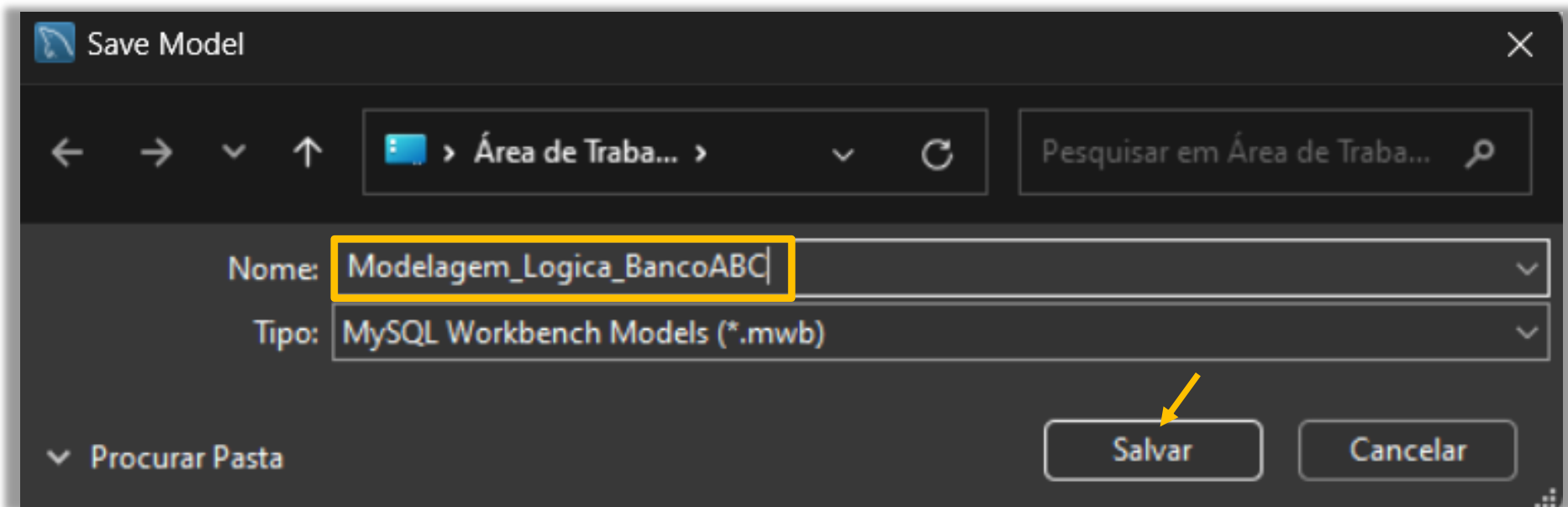
M. Lógica: Criação de Relacionamentos



Modelagem Lógica: Salvar o Modelo



Modelagem Lógica: Salvar o Modelo



Exercícios

- 1) Realize a instalação e configuração do MySQL.
- 2) Realize a instalação do Workbench.
- 3) Crie uma conexão com o MySQL utilizando Workbench, conforme apresentado nos slides anteriores.
- 4) Abra o Workbench e crie o modelo lógico apresentado nos slides anteriores.



Obrigado!

Questões?

