组态王 7.5 和 MYSQL 数据库进行数据交互

用户文档

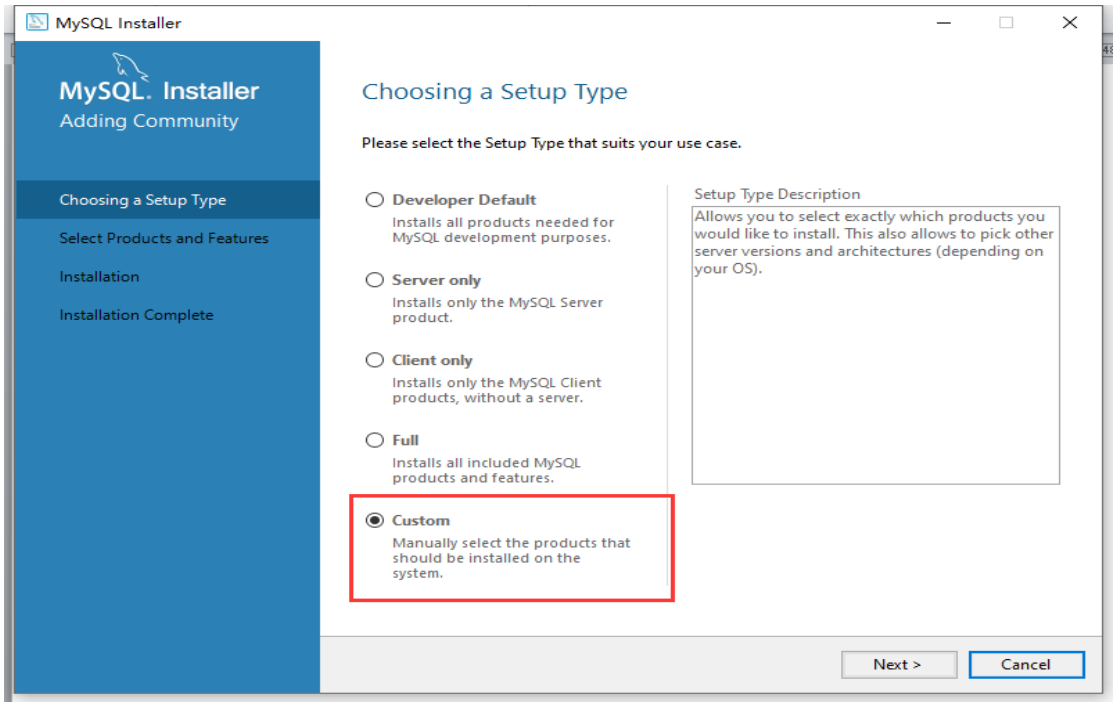
北京亚控科技发展有限公司

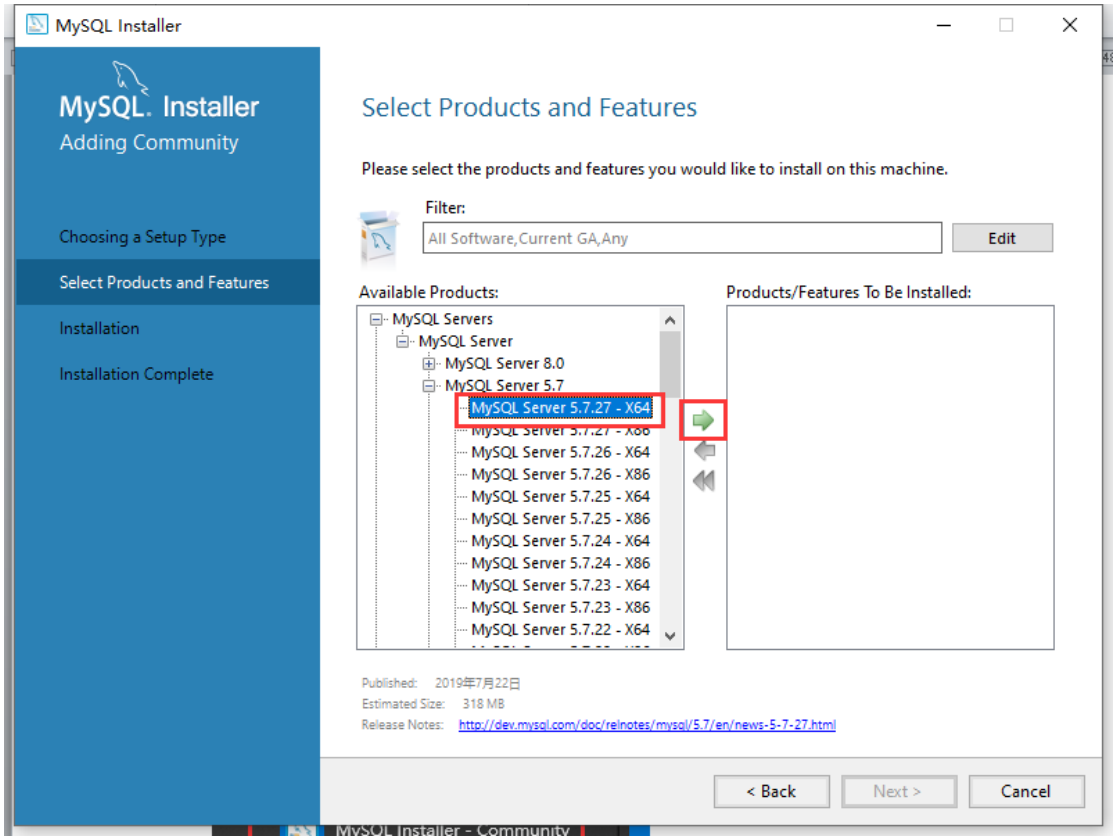
2022 年 6 月

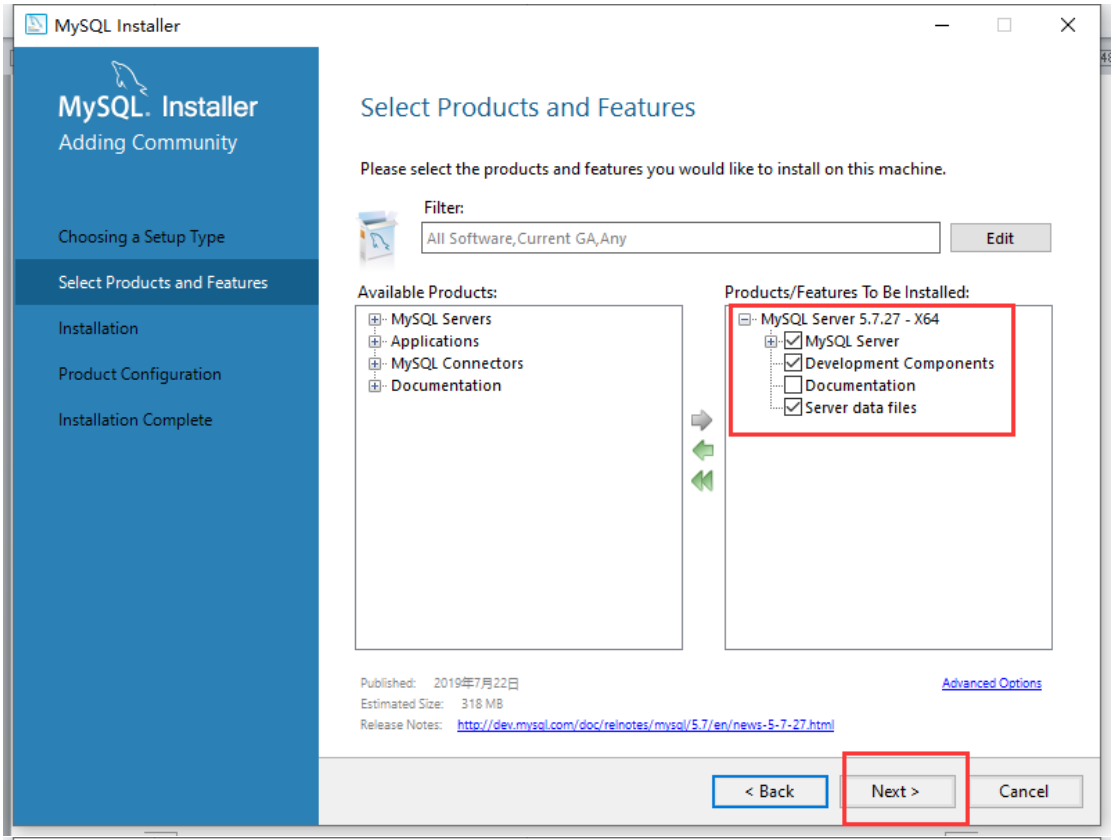
目 录

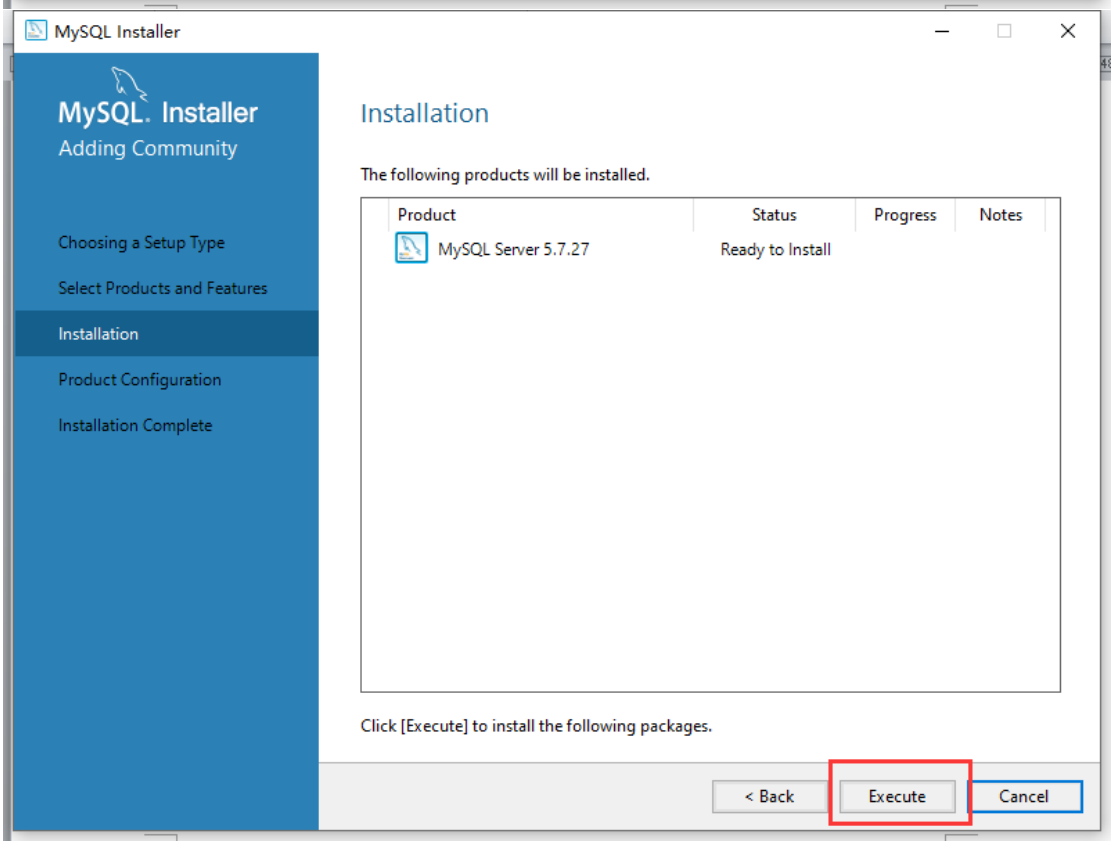
1. 安装数据库

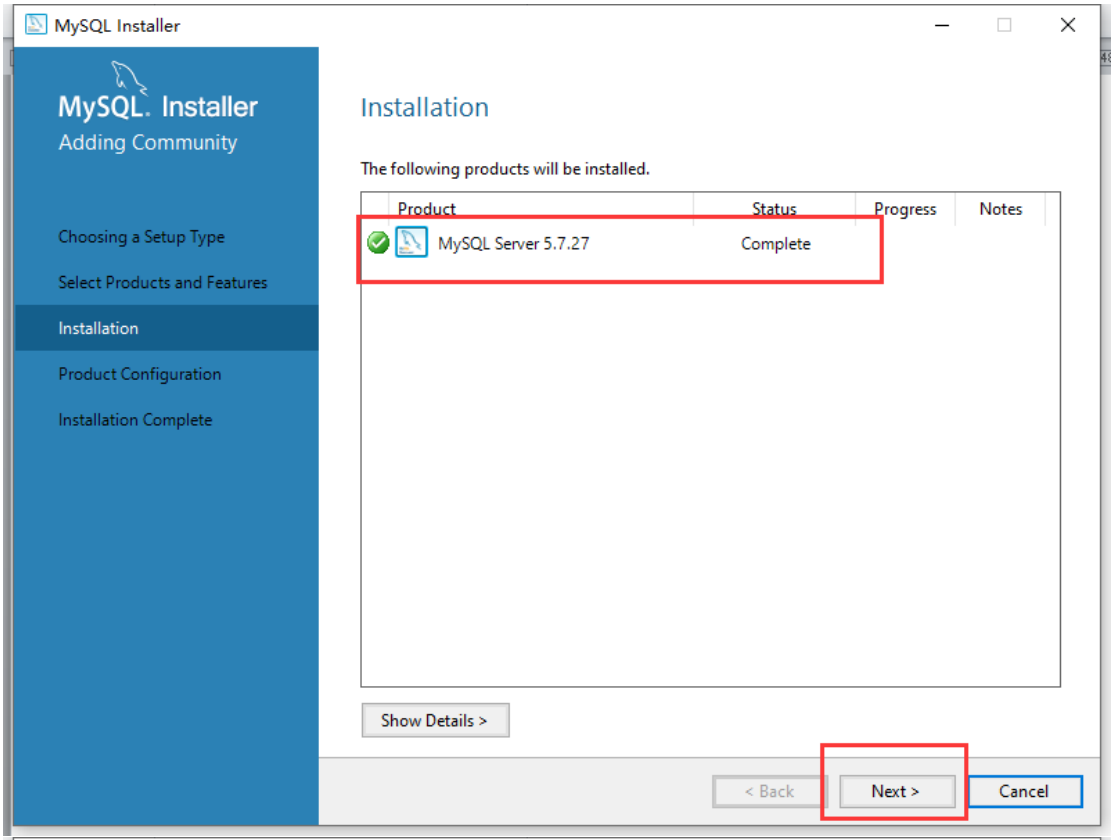
以 8.0.18.0 的安装包为例，打开默认安装就可以，可以选择全部安装，因为我的系统安装 8.0.18.0 的安装不上，只能选择安装其他版本的

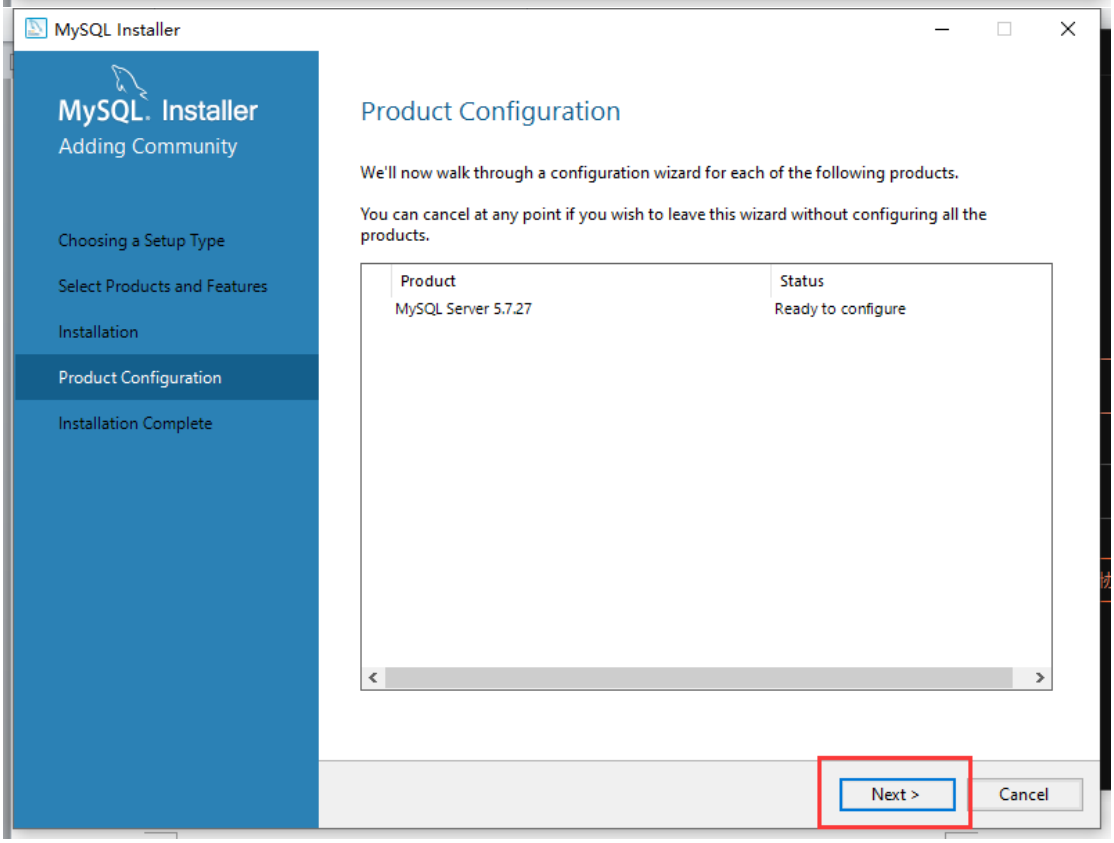


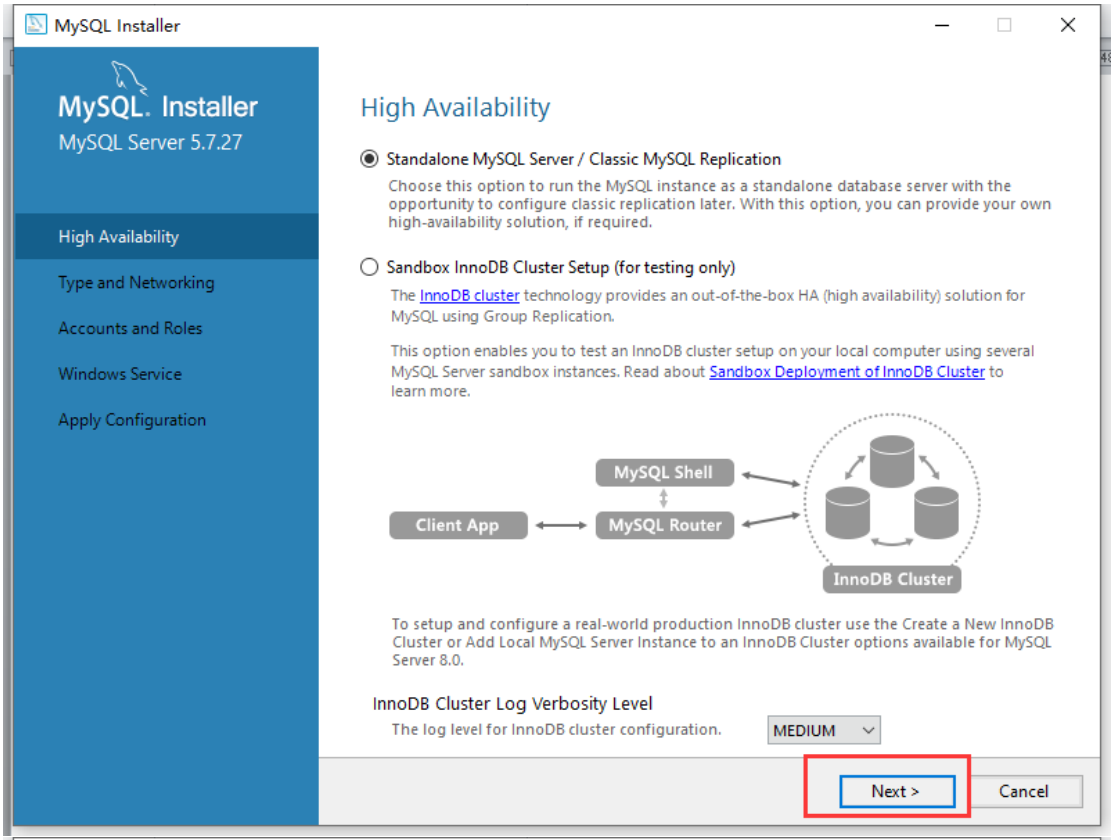


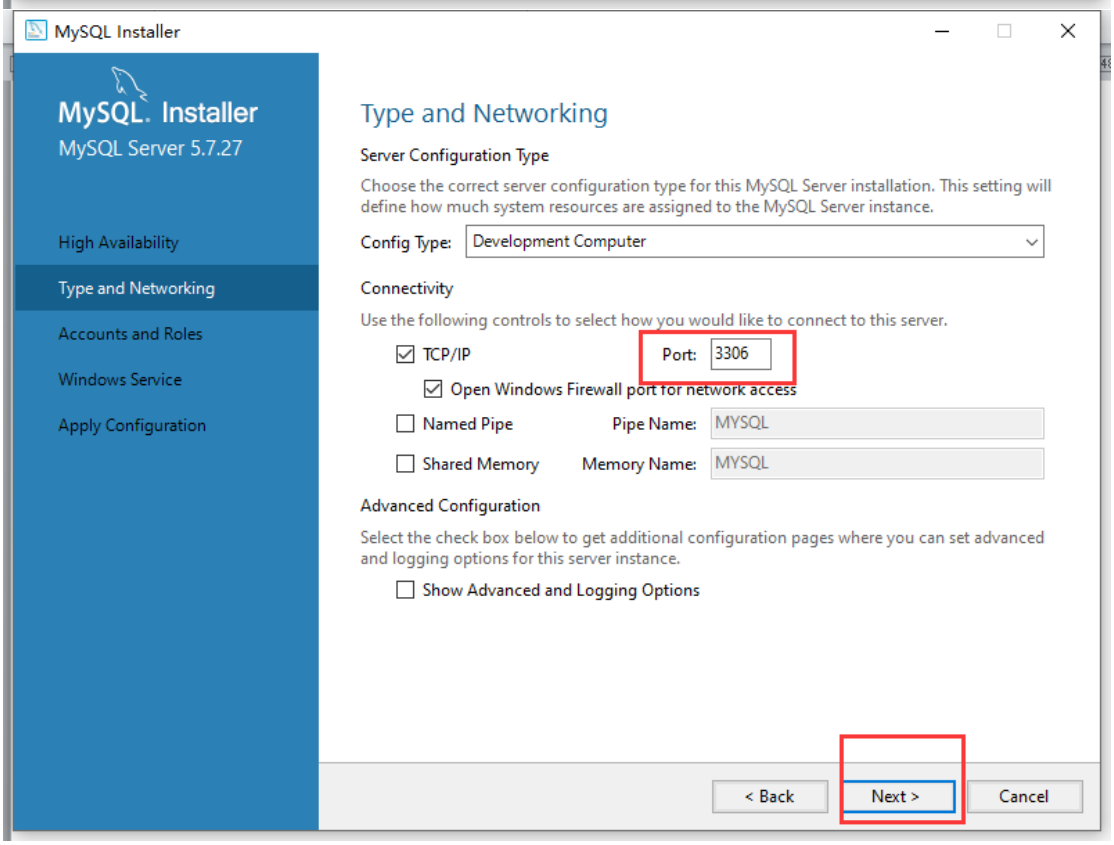

MySQL Installer
MySQL. Installer
Adding Community
Choosing a Setup Type
Select Products and Features
Installation
Product Configuration
Installation Complete
Select Products and Features
Please select the products and features you would like to install on this machine.
Filter:
All Software,Current GA,Any
Edit
Available Products:
MySQL Servers
Applications
MySQL Connectors
Documentation
Products/Features To Be Installed:
MySQL Server 5.7.27 - X64
MySQL Server
Development Components
Documentation
Server data files
Published: 2019年7月22日
Estimated Size: 318 MB
Release Notes: http://dev.mysql.com/doc/relnotes/mysql/5.7/en/news-5-7-27.html
Advanced Options
< Back
Next >
Cancel

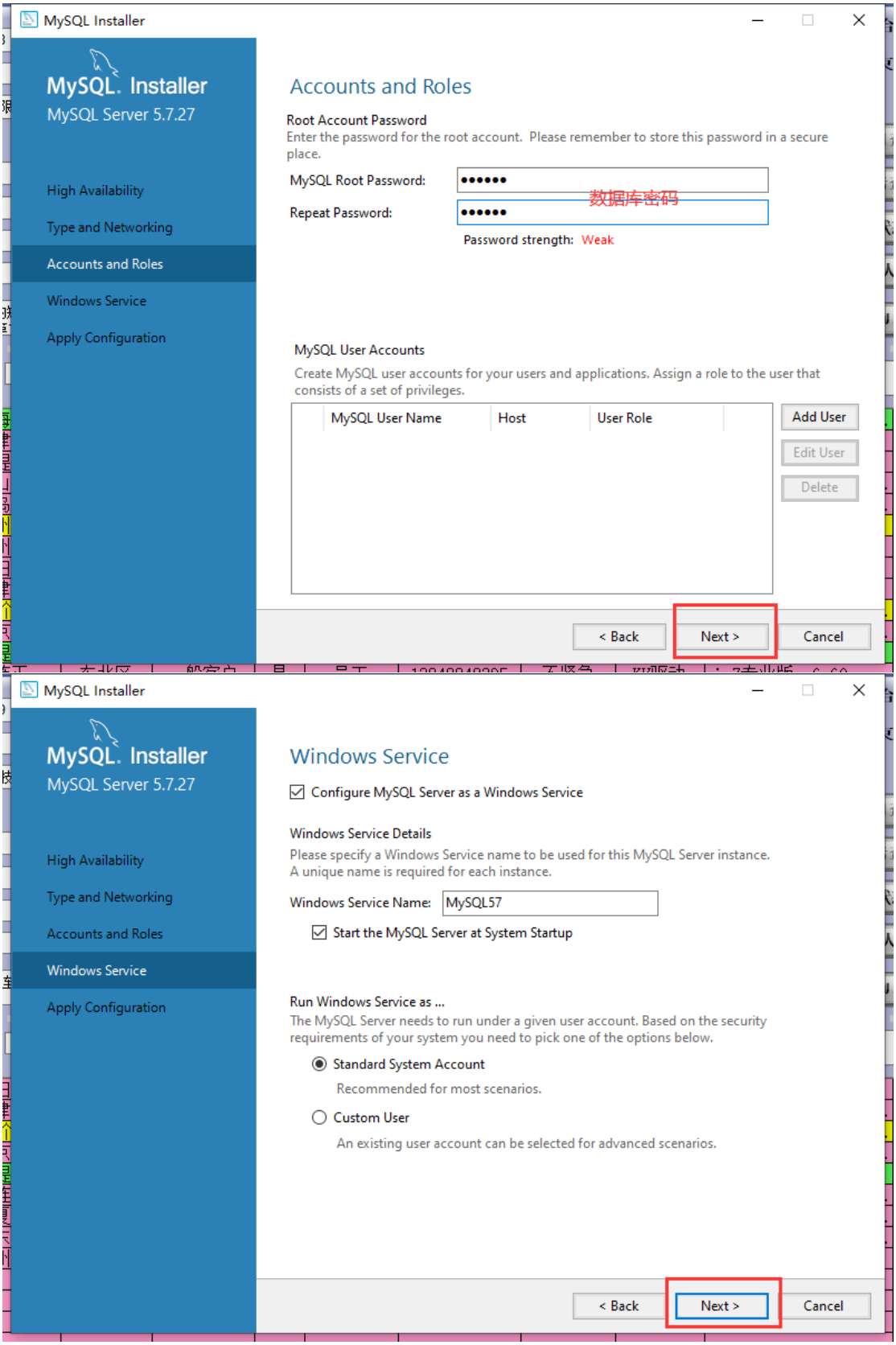

MySQL Installer
MySQL. Installer
Adding Community
Choosing a Setup Type
Select Products and Features
Installation
Product Configuration
Installation Complete
Installation
The following products will be installed.
Product
Status
Progress
Notes
MySQL Server 5.7.27
Ready to Install
Click [Execute] to install the following packages.
< Back
Execute
Cancel

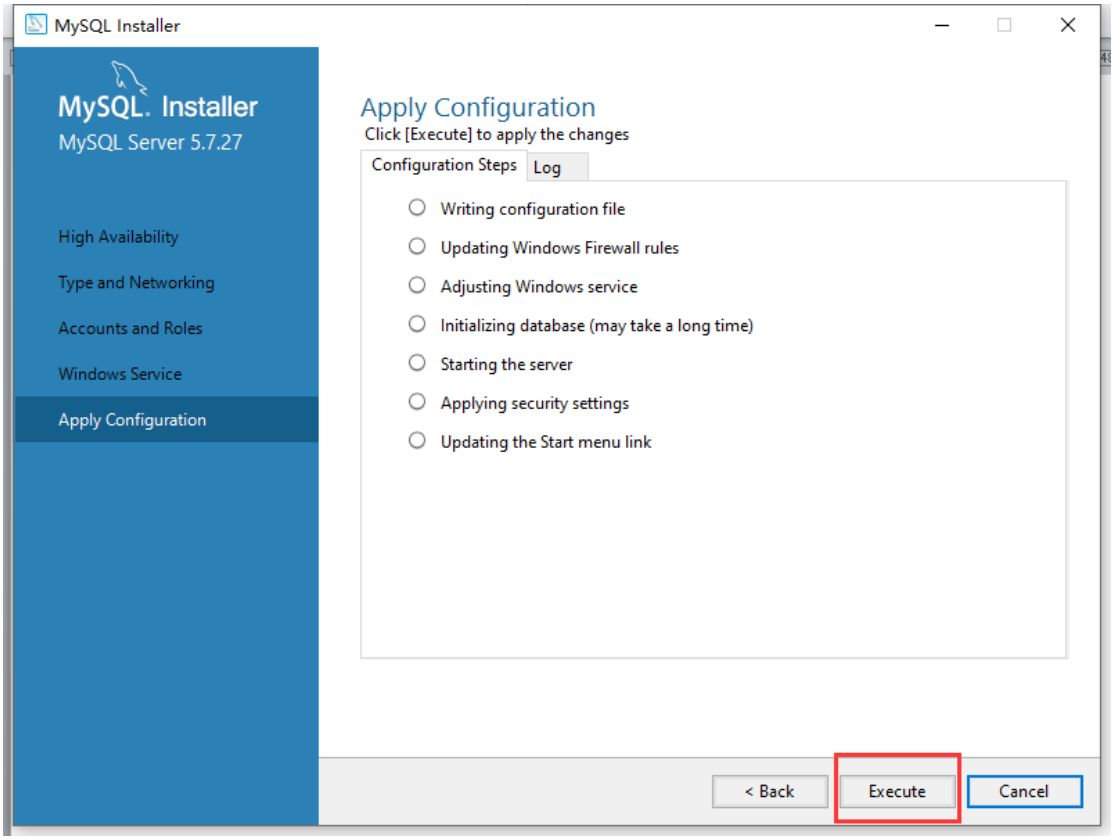

MySQL Installer
MySQL. Installer
Adding Community
Choosing a Setup Type
Select Products and Features
Installation
Product Configuration
Installation Complete
Installation
The following products will be installed.
Product
Status
Progress
Notes
MySQL Server 5.7.27
Complete
Show Details >
< Back
Next >
Cancel

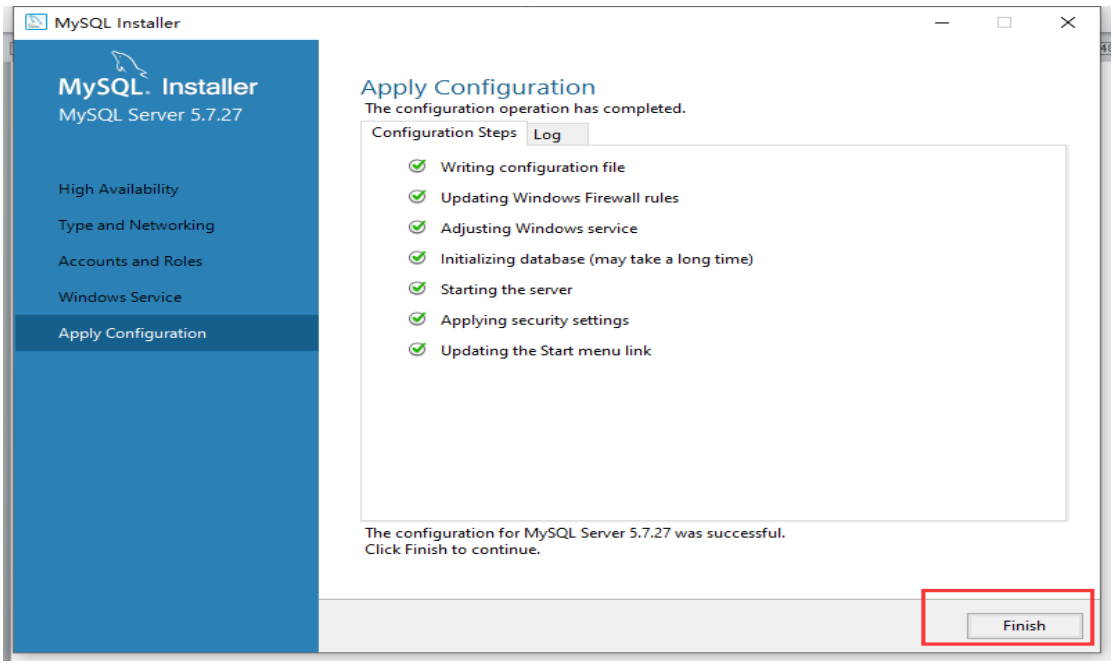

MySQL Installer
MySQL. Installer
Adding Community
Choosing a Setup Type
Select Products and Features
Installation
Product Configuration
Installation Complete
Product Configuration
We'll now walk through a configuration wizard for each of the following products.
You can cancel at any point if you wish to leave this wizard without configuring all the products.
Product
Status
MySQL Server 5.7.27
Ready to configure
Next >
Cancel


MySQL Installer
MySQL. Installer
MySQL Server 5.7.27
High Availability
Type and Networking
Accounts and Roles
Windows Service
Apply Configuration
High Availability
Standalone MySQL Server / Classic MySQL Replication
Choose this option to run the MySQL instance as a standalone database server with the opportunity to configure classic replication later. With this option, you can provide your own high-availability solution, if required.
Sandbox InnoDB Cluster Setup (for testing only)
The InnoDB cluster technology provides an out-of-the-box HA (high availability) solution for MySQL using Group Replication.
This option enables you to test an InnoDB cluster setup on your local computer using several MySQL Server sandbox instances. Read about Sandbox Deployment of InnoDB Cluster to learn more.
MySQL Shell
Client App
MySQL Router
InnoDB Cluster
To setup and configure a real-world production InnoDB cluster use the Create a New InnoDB Cluster or Add Local MySQL Server Instance to an InnoDB Cluster options available for MySQL Server 8.0.
InnoDB Cluster Log Verbosity Level
The log level for InnoDB cluster configuration.
MEDIUM
Next >
Cancel


MySQL Installer
MySQL. Installer
MySQL Server 5.7.27
High Availability
Type and Networking
Accounts and Roles
Windows Service
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
< Back
Next >
Cancel

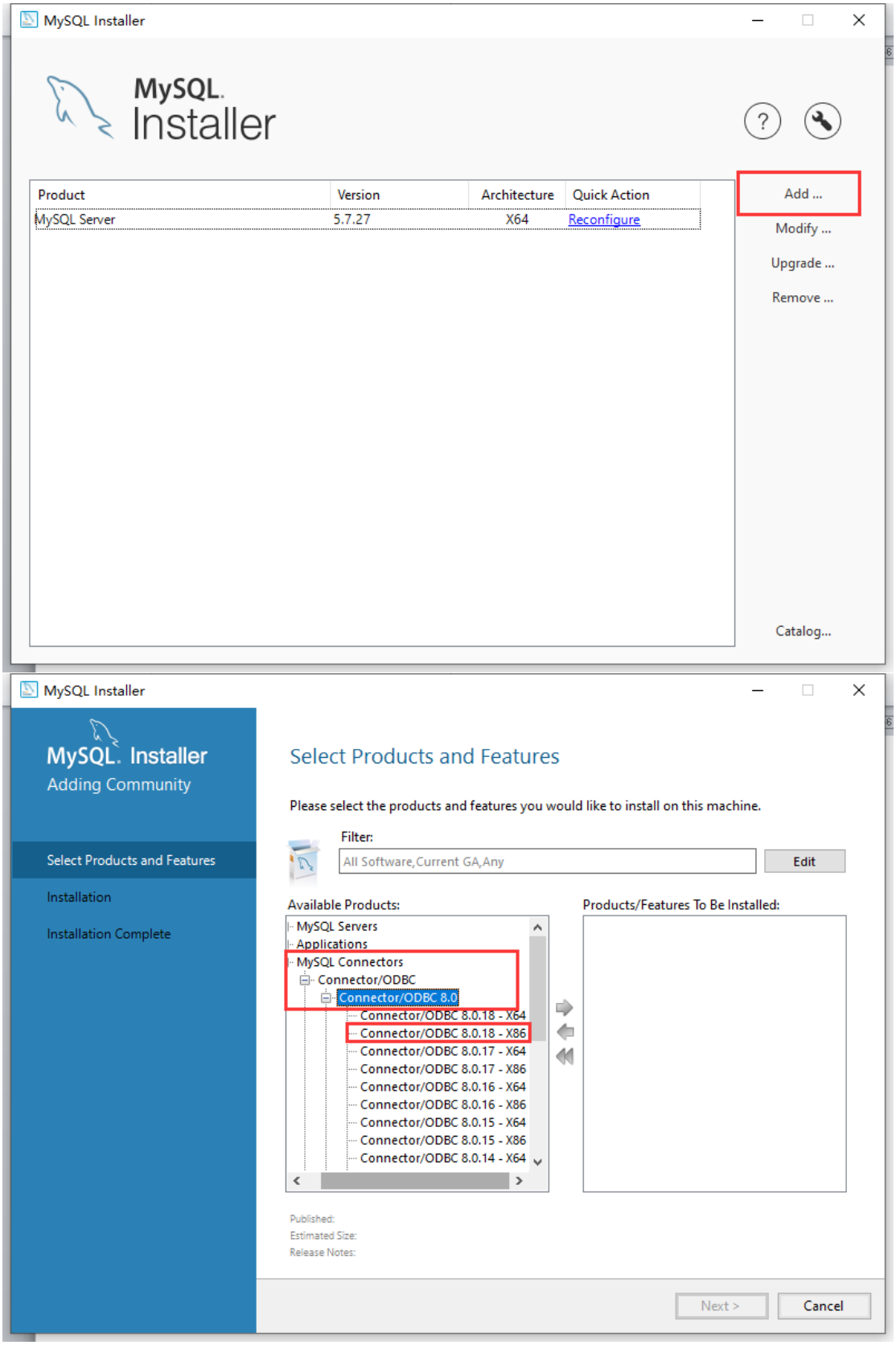

MySQL Installer
MySQL. Installer
MySQL Server 5.7.27
High Availability
Type and Networking
Accounts and Roles
Windows Service
Apply Configuration
Accounts and Roles
Root Account Password
Enter the password for the root account. Please remember to store this password in a secure place.
MySQL Root Password:
Repeat Password:
数据库密码
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
MySQL Installer
MySQL. Installer
MySQL Server 5.7.27
High Availability
Type and Networking
Accounts and Roles
Windows Service
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

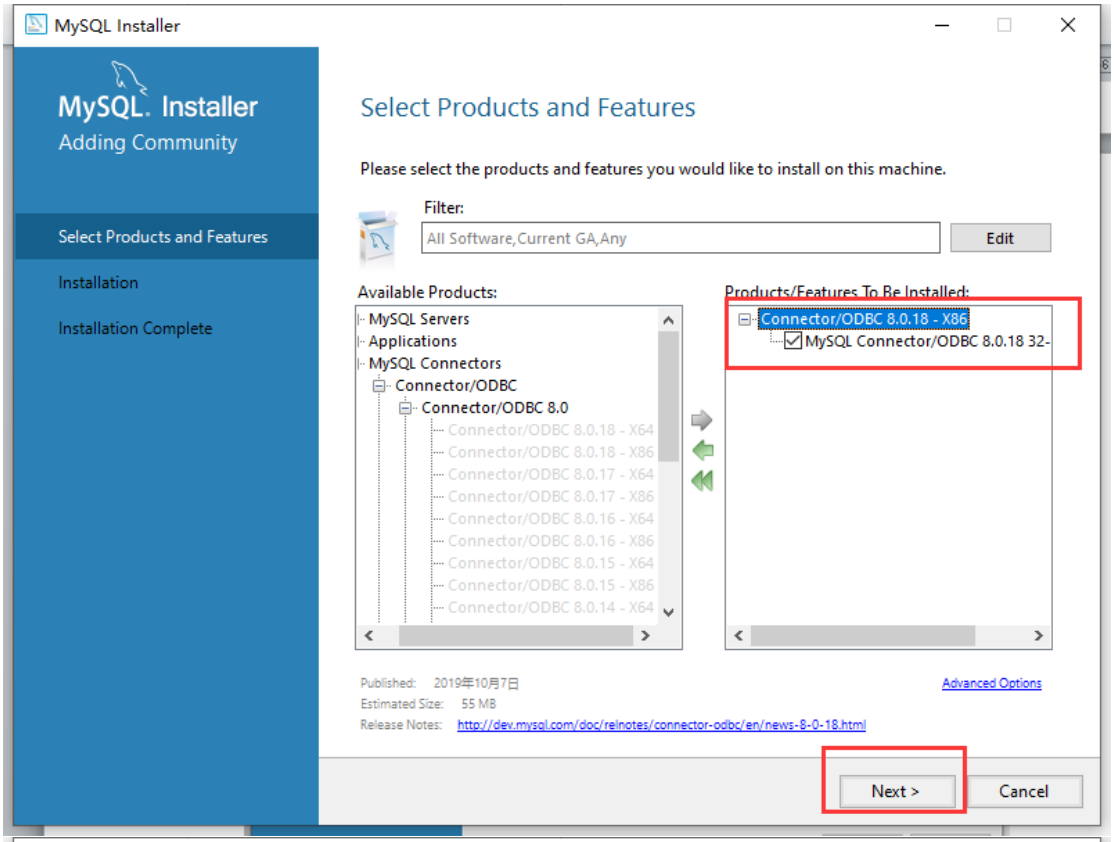


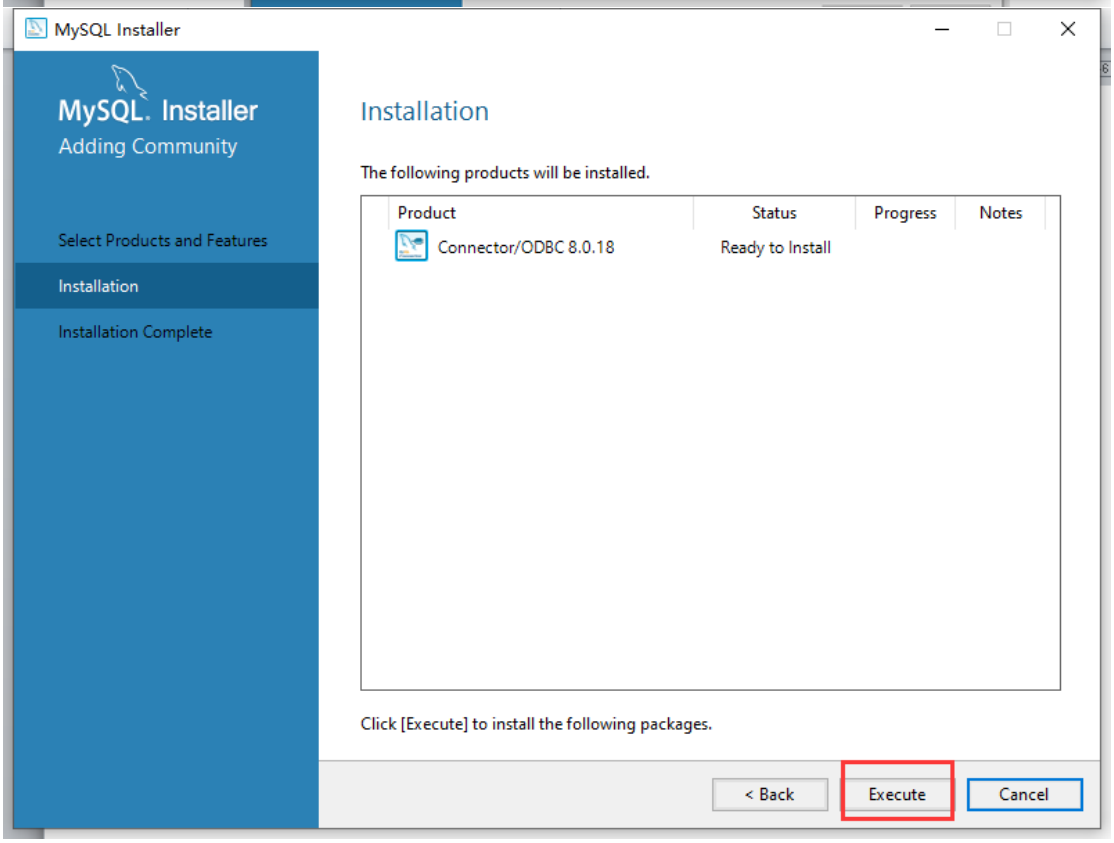


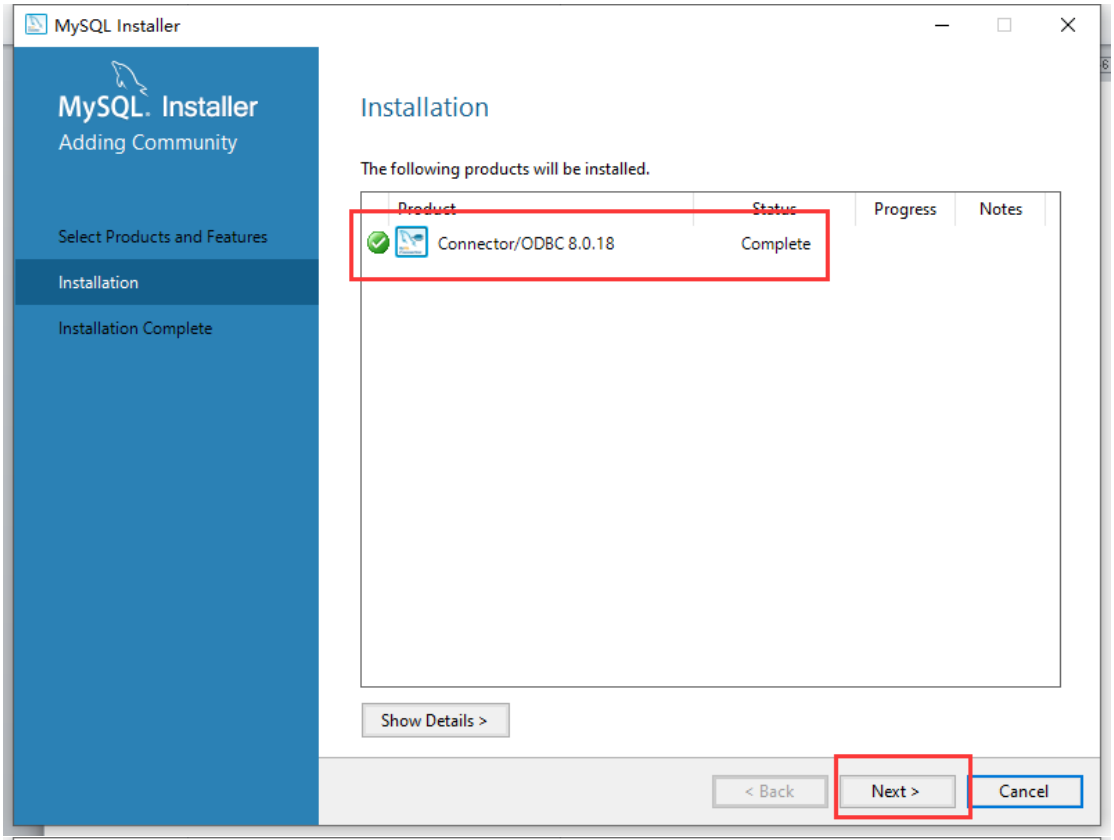
2. 安装 odbc 数据源

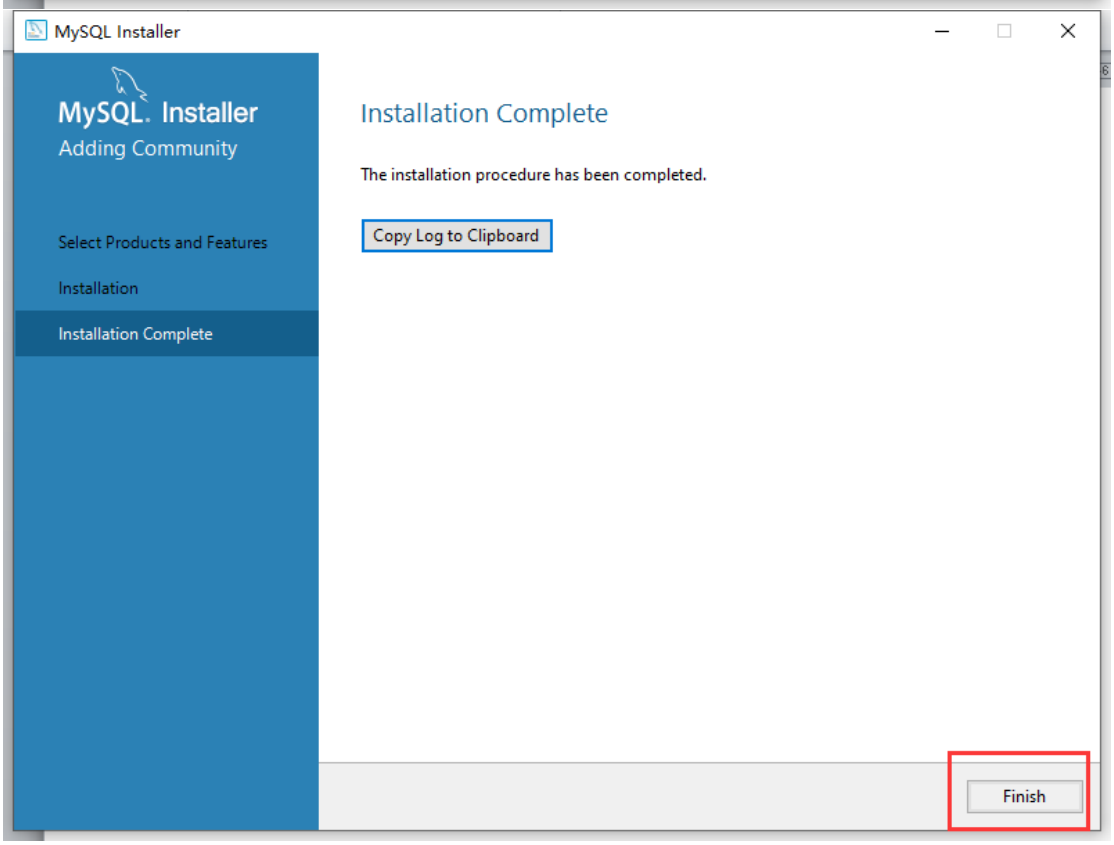
因为组态王连接数据库使用的是 32 位的 odbc，所以安装 x86 的就可以


MySQL Installer
MySQL. Installer
Product
Version
Architecture
Quick Action
MySQL Server
5.7.27
X64
Reconfigure
Add ...
Modify ...
Upgrade ...
Remove ...
Catalog...
MySQL Installer
MySQL. Installer
Adding Community
Select Products and Features
Installation
Installation Complete
Select Products and Features
Please select the products and features you would like to install on this machine.
Filter:
All Software,Current GA,Any
Edit
Available Products:
Products/Features To Be Installed:
MySQL Servers
Applications
MySQL Connectors
Connector/ODBC
Connector/ODBC 8.0
Connector/ODBC 8.0.18 - X64
Connector/ODBC 8.0.18 - X86
Connector/ODBC 8.0.17 - X64
Connector/ODBC 8.0.17 - X86
Connector/ODBC 8.0.16 - X64
Connector/ODBC 8.0.16 - X86
Connector/ODBC 8.0.15 - X64
Connector/ODBC 8.0.15 - X86
Connector/ODBC 8.0.14 - X64
Published:
Estimated Size:
Release Notes:
Next >
Cancel


MySQL Installer
MySQL. Installer
Adding Community
Select Products and Features
Installation
Installation Complete
Select Products and Features
Please select the products and features you would like to install on this machine.
Filter:
All Software,Current GA,Any
Edit
Available Products:
MySQL Servers
Applications
MySQL Connectors
Connector/ODBC
Connector/ODBC 8.0
Connector/ODBC 8.0.18 - X64
Connector/ODBC 8.0.18 - X86
Connector/ODBC 8.0.17 - X64
Connector/ODBC 8.0.17 - X86
Connector/ODBC 8.0.16 - X64
Connector/ODBC 8.0.16 - X86
Connector/ODBC 8.0.15 - X64
Connector/ODBC 8.0.15 - X86
Connector/ODBC 8.0.14 - X64
Products/Features To Be Installed:
Connector/ODBC 8.0.18 - X86
MySQL Connector/ODBC 8.0.18 32-
Published: 2019年10月7日
Estimated Size: 55 MB
Release Notes: http://dev.mysql.com/doc/relnotes/connector-odbc/en/news-8-0-18.html
Advanced Options
Next >
Cancel

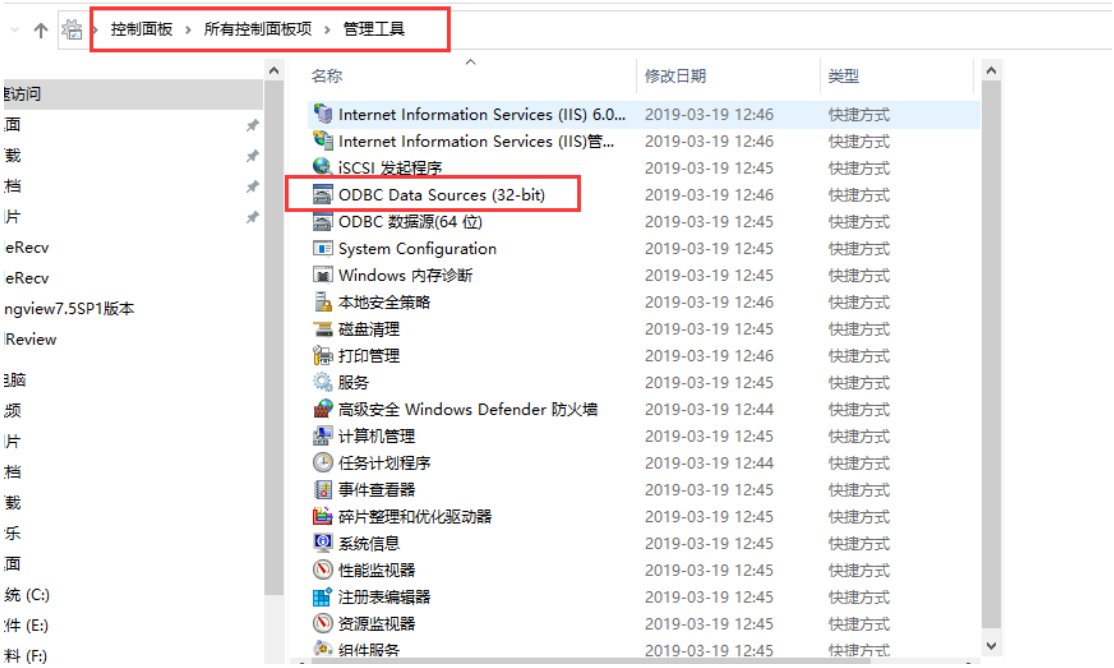

MySQL Installer
MySQL. Installer
Adding Community
Select Products and Features
Installation
Installation Complete
Installation
The following products will be installed.
Product
Status
Progress
Notes
Connector/ODBC 8.0.18
Ready to Install
Click [Execute] to install the following packages.
< Back
Execute
Cancel



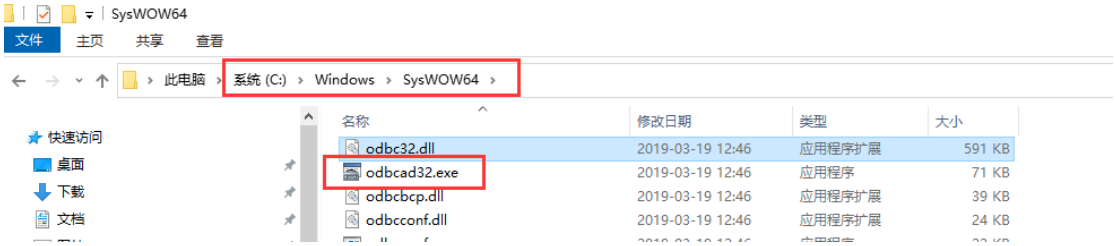


这样数据库就全部安装完成

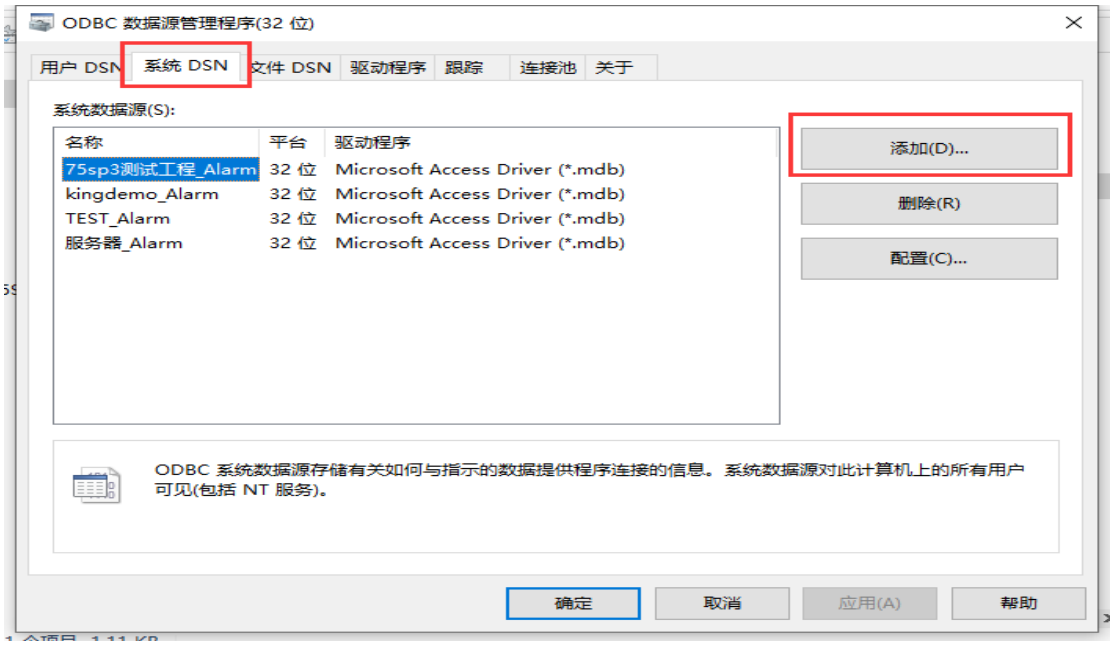
3. 新建 ODBC 数据源，连接数据库

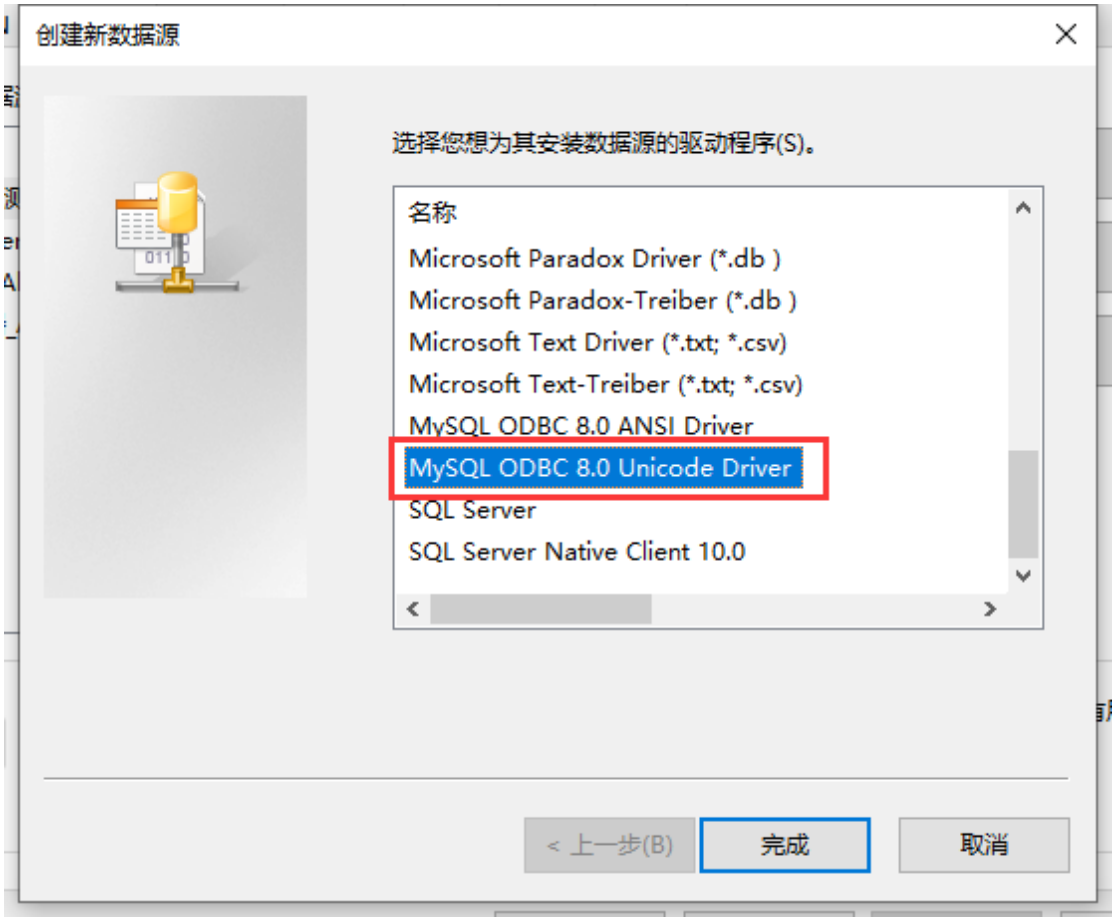


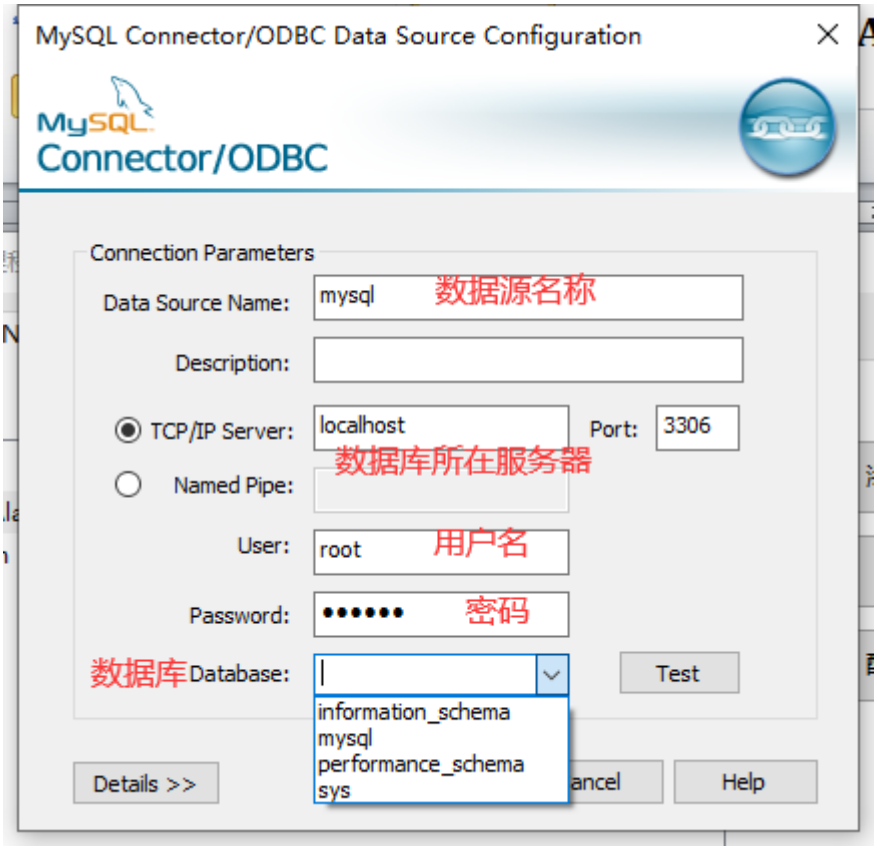
如果控制面板没有 32 位的 odbc 数据源就在路径

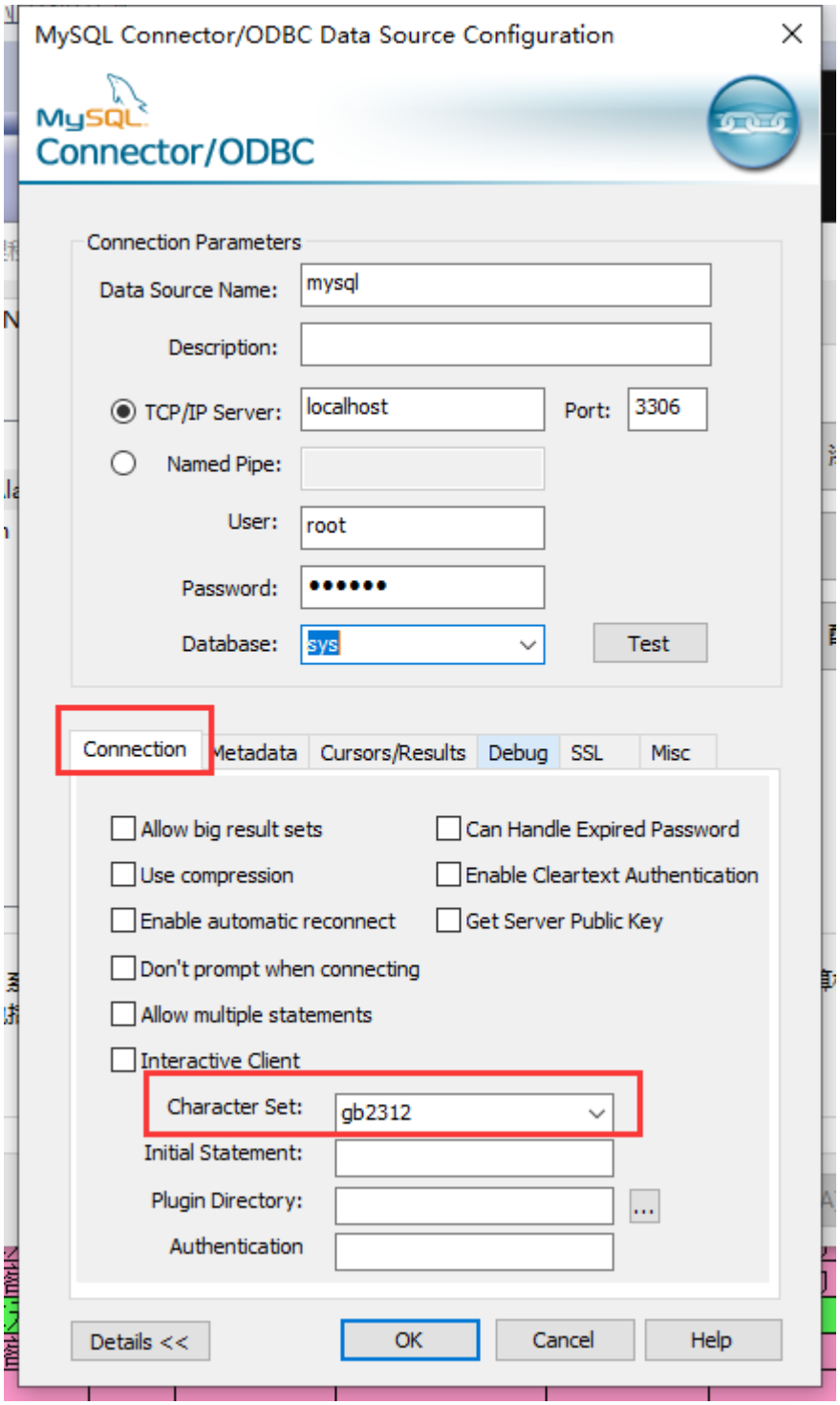


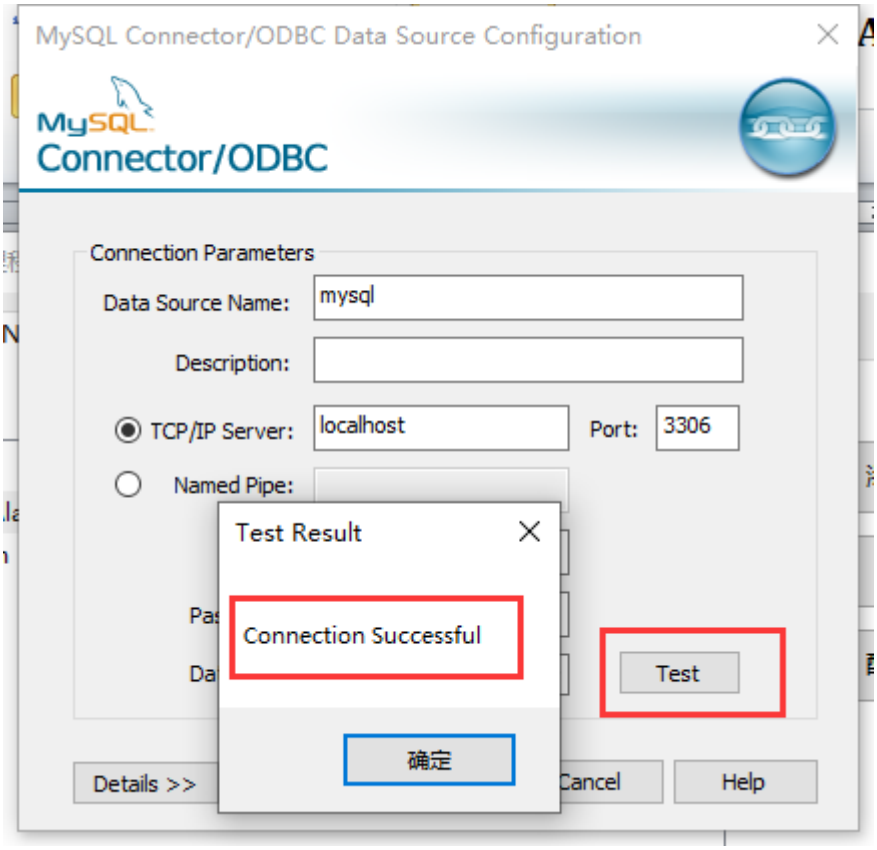
组态王 7.5sp3 连接 mysql 数据库，需要在**系统 DSN** 下建立数据源


ODBC 数据源管理程序(32 位)
用户 DSN
系统 DSN
文件 DSN
驱动程序
跟踪
连接池
关于
系统数据源(S):
名称
平台
驱动程序
75sp3测试工程_Alarm
32 位
Microsoft Access Driver (*.mdb)
kingdemo_Alarm
32 位
Microsoft Access Driver (*.mdb)
TEST_Alarm
32 位
Microsoft Access Driver (*.mdb)
服务器_Alarm
32 位
Microsoft Access Driver (*.mdb)
添加(D)...
删除(R)
配置(C)...
ODBC 系统数据源存储有关如何与指示的数据提供程序连接的信息。系统数据源对此计算机上的所有用户可见(包括 NT 服务)。
确定
取消
应用(A)
帮助


创建新数据源
选择您想为其安装数据源的驱动程序(S)。
名称
Microsoft Paradox Driver (*.db)
Microsoft Paradox-Treiber (*.db)
Microsoft Text Driver (*.txt; *.csv)
Microsoft Text-Treiber (*.txt; *.csv)
MySQL ODBC 8.0 ANSI Driver
MySQL ODBC 8.0 Unicode Driver
SQL Server
SQL Server Native Client 10.0
< 上一步(B)
完成
取消

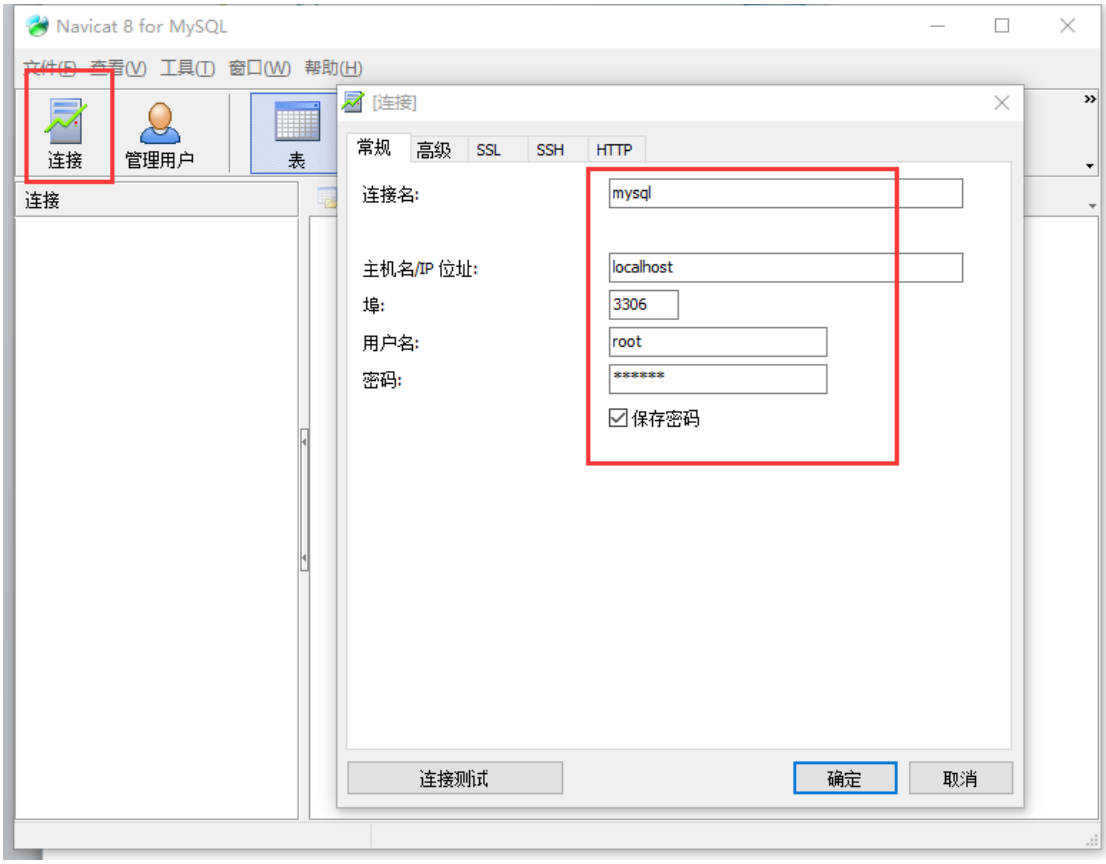

MySQL Connector/ODBC Data Source Configuration
MySQL
Connector/ODBC
Connection Parameters
Data Source Name:
mysql
数据源名称
Description:
TCP/IP Server:
localhost
Port:
3306
数据库所在服务器
Named Pipe:
User:
root
用户名
Password:
密码
数据库Database:
Test
information_schema
mysql
performance_schema
sys
Details >>
Help

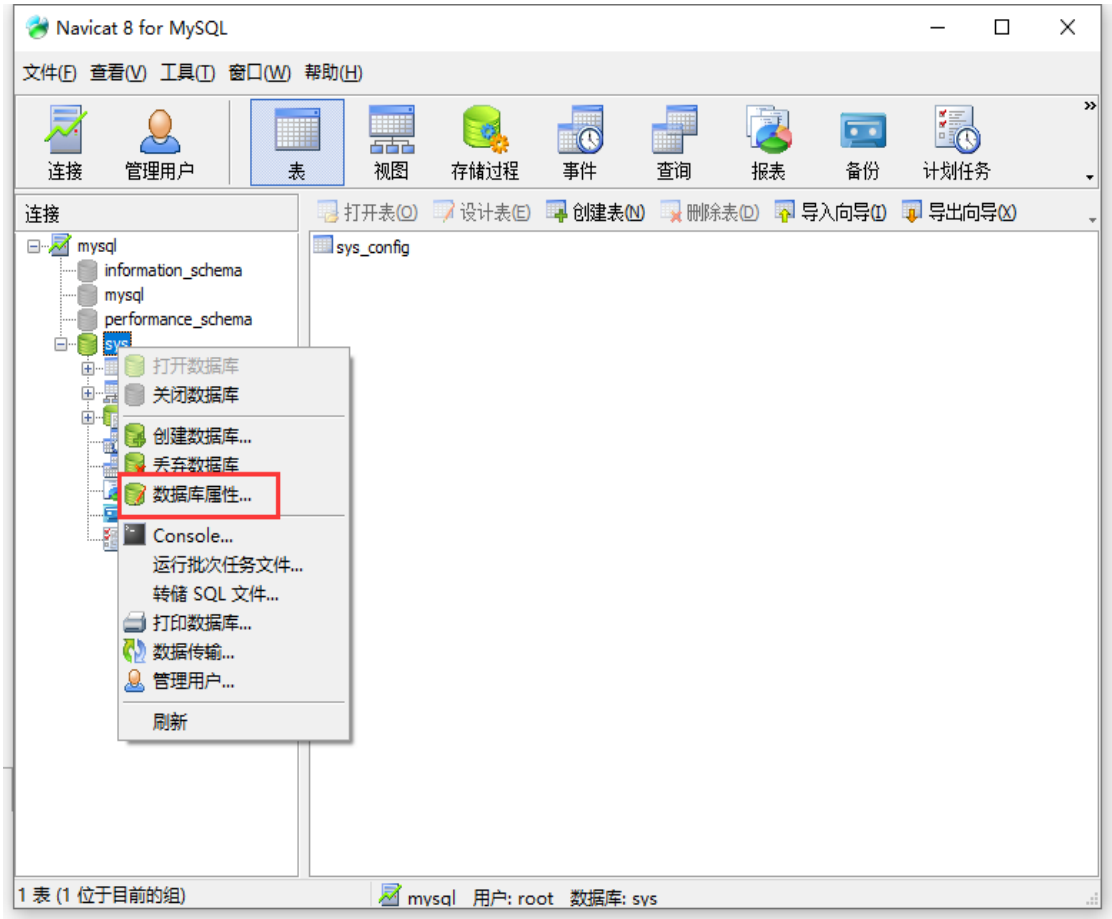

MySQL Connector/ODBC Data Source Configuration
MySQL
Connector/ODBC
Connection Parameters
Data Source Name:
mysql
Description:
TCP/IP Server:
localhost
Port:
3306
Named Pipe:
User:
root
Password:
Database:
sys
Test
Connection
Metadata
Cursors/Results
Debug
SSL
Misc
Allow big result sets
Can Handle Expired Password
Use compression
Enable Cleartext Authentication
Enable automatic reconnect
Get Server Public Key
Don't prompt when connecting
Allow multiple statements
Interactive Client
Character Set:
gb2312
Initial Statement:
Plugin Directory:
Authentication
Details <<
OK
Cancel
Help



4. 数据库配置

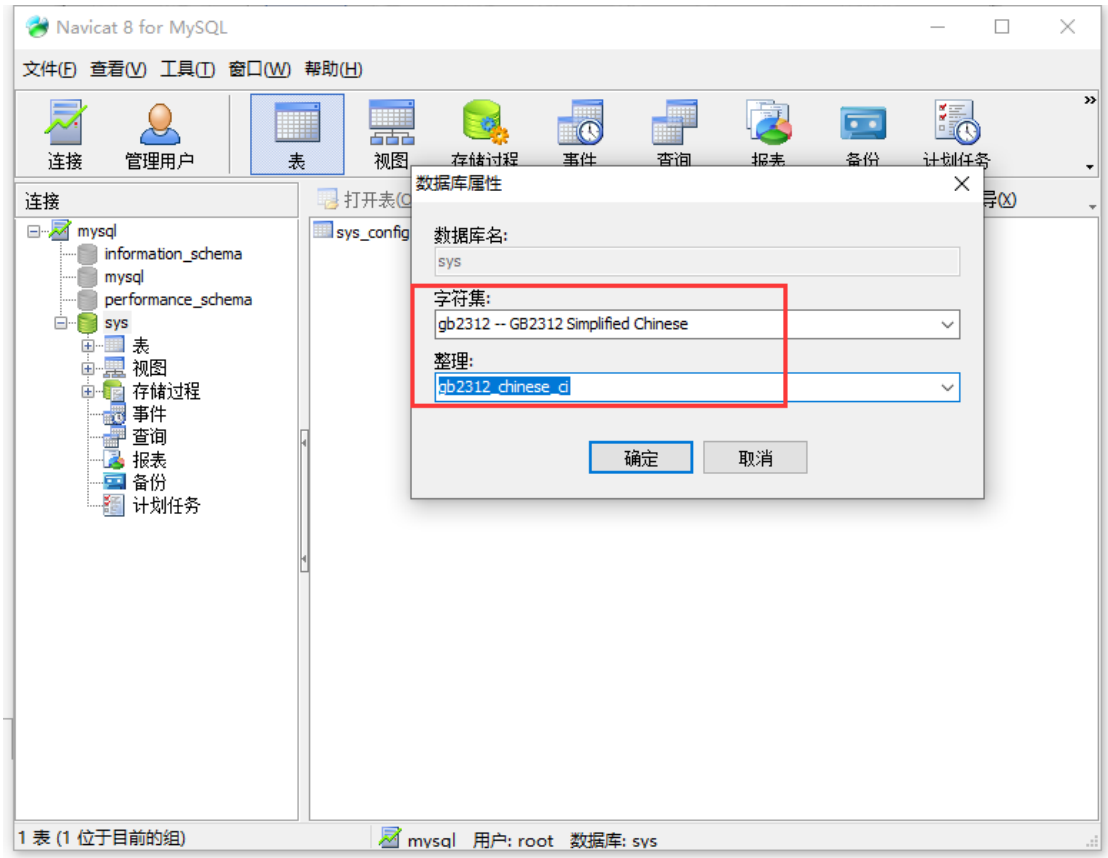
由于 mysql 数据库的特殊形式，为了方便操作数据库，可以下载 Navicat for MySQL 工具或者其他可以打开 mysql 数据库的软件


Navicat 8 for MySQL
文件(F) 查看(V) 工具(T) 窗口(W) 帮助(H)
连接
管理用户
表
连接
[连接]
常规
高级
SSL
SSH
HTTP
连接名:
mysql
主机名/IP 位址:
localhost
埠:
3306
用户名:
root
密码:
******
保存密码
连接测试
确定
取消

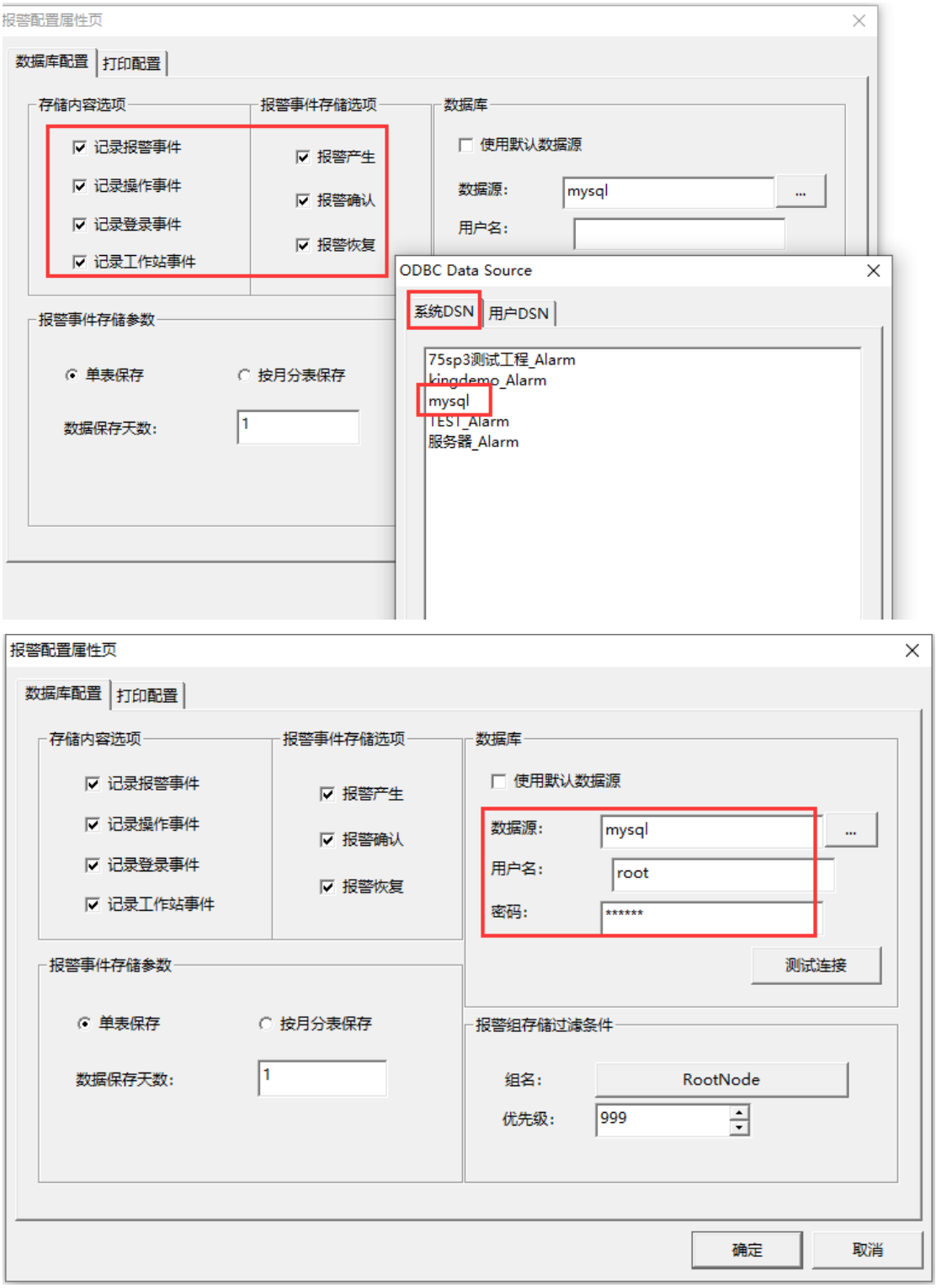

Navicat 8 for MySQL
文件(F) 查看(V) 工具(T) 窗口(W) 帮助(H)
连接
管理用户
表
视图
存储过程
事件
查询
报表
备份
计划任务
连接
打开表(O)
设计表(E)
创建表(N)
删除表(D)
导入向导(I)
导出向导(X)
mysql
information_schema
mysql
performance_schema
sys
sys_config
打开数据库
关闭数据库
创建数据库...
丢弃数据库
数据库属性...
Console...
运行批次任务文件...
转储 SQL 文件...
打印数据库...
数据传输...
管理用户...
刷新
1 表 (1 位于目前的组)
mysql 用户: root 数据库: sys

数据库 -> 编辑数据库　**字符集：gb2312**

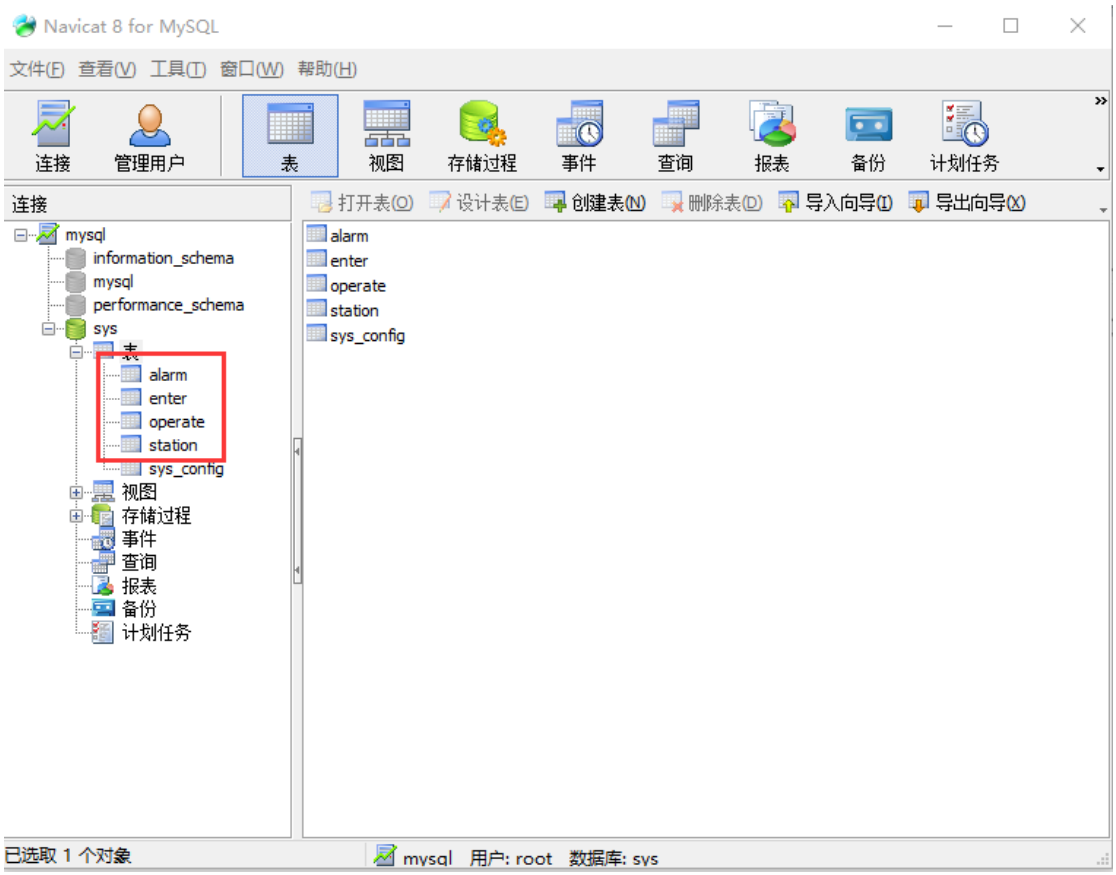
排序规则：**gb2312_chinese_ci**

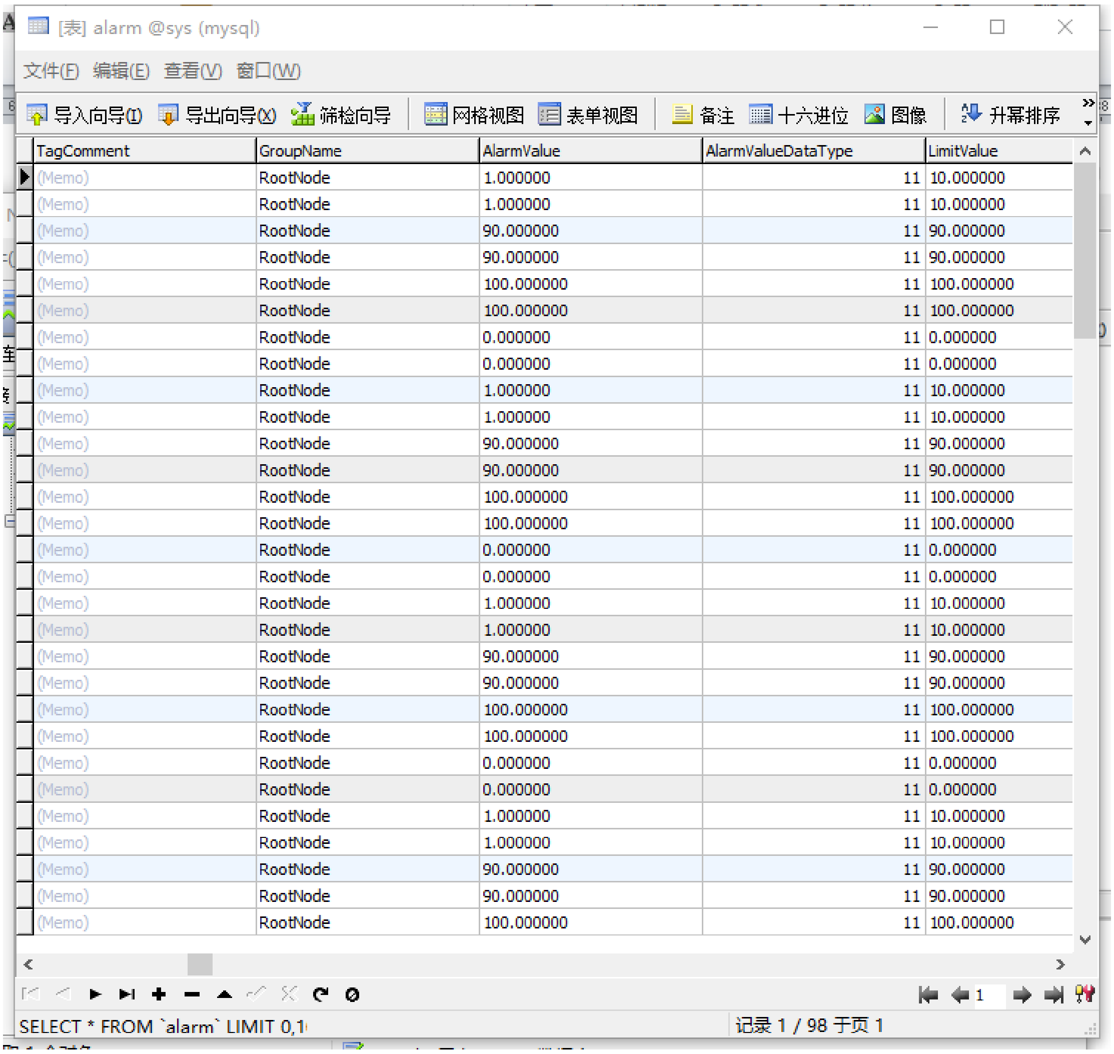


5. 报警配置



运行组态王后，会自动在数据库中建表


Navicat 8 for MySQL
文件(F) 查看(V) 工具(T) 窗口(W) 帮助(H)
连接
管理用户
表
视图
存储过程
事件
查询
报表
备份
计划任务
连接
mysql
information_schema
mysql
performance_schema
sys
表
alarm
enter
operate
station
sys_config
视图
存储过程
事件
查询
报表
备份
计划任务
打开表(O)
设计表(E)
创建表(N)
删除表(D)
导入向导(I)
导出向导(X)
alarm
enter
operate
station
sys_config
已选取 1 个对象
mysql 用户: root 数据库: sys



TagComment	GroupName	AlarmValue	AlarmValueDataType	LimitValue
(Memo)	RootNode	1.000000	11	10.000000
(Memo)	RootNode	1.000000	11	10.000000
(Memo)	RootNode	90.000000	11	90.000000
(Memo)	RootNode	90.000000	11	90.000000
(Memo)	RootNode	100.000000	11	100.000000
(Memo)	RootNode	100.000000	11	100.000000
(Memo)	RootNode	0.000000	11	0.000000
(Memo)	RootNode	0.000000	11	0.000000
(Memo)	RootNode	1.000000	11	10.000000
(Memo)	RootNode	1.000000	11	10.000000
(Memo)	RootNode	90.000000	11	90.000000
(Memo)	RootNode	90.000000	11	90.000000
(Memo)	RootNode	100.000000	11	100.000000
(Memo)	RootNode	100.000000	11	100.000000
(Memo)	RootNode	0.000000	11	0.000000
(Memo)	RootNode	0.000000	11	0.000000
(Memo)	RootNode	1.000000	11	10.000000
(Memo)	RootNode	1.000000	11	10.000000
(Memo)	RootNode	90.000000	11	90.000000
(Memo)	RootNode	90.000000	11	90.000000
(Memo)	RootNode	100.000000	11	100.000000
(Memo)	RootNode	100.000000	11	100.000000
(Memo)	RootNode	0.000000	11	0.000000
(Memo)	RootNode	0.000000	11	0.000000
(Memo)	RootNode	1.000000	11	10.000000
(Memo)	RootNode	1.000000	11	10.000000
(Memo)	RootNode	90.000000	11	90.000000
(Memo)	RootNode	90.000000	11	90.000000
(Memo)	RootNode	100.000000	11	100.000000

注：本示例只是简单的例程说明，更深一步的学习使用请参考组态王使用手册，如有问题请致电亚控公司技术部 4008609696。