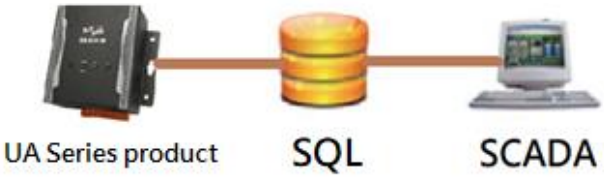
● How to save the UA collected data into SQL and then show trend chart in InduSoft? (Take MySQL Installer 5.7.31 as an example)

UA series products of ICP DAS provide a useful service to transfer TCP/RTU data to SQL. SQL is to store device data, and then by using InduSoft can retrieve the data to manage the database easily.

Due to the time format written by UA is different from the reading format of InduSoft, here is how InduSoft read data.

(In this example, we use UA-5231M-4GE + Windows 10 OS + MySQL 5.7.31 Database + DL-302 with Modbus RTU protocol)

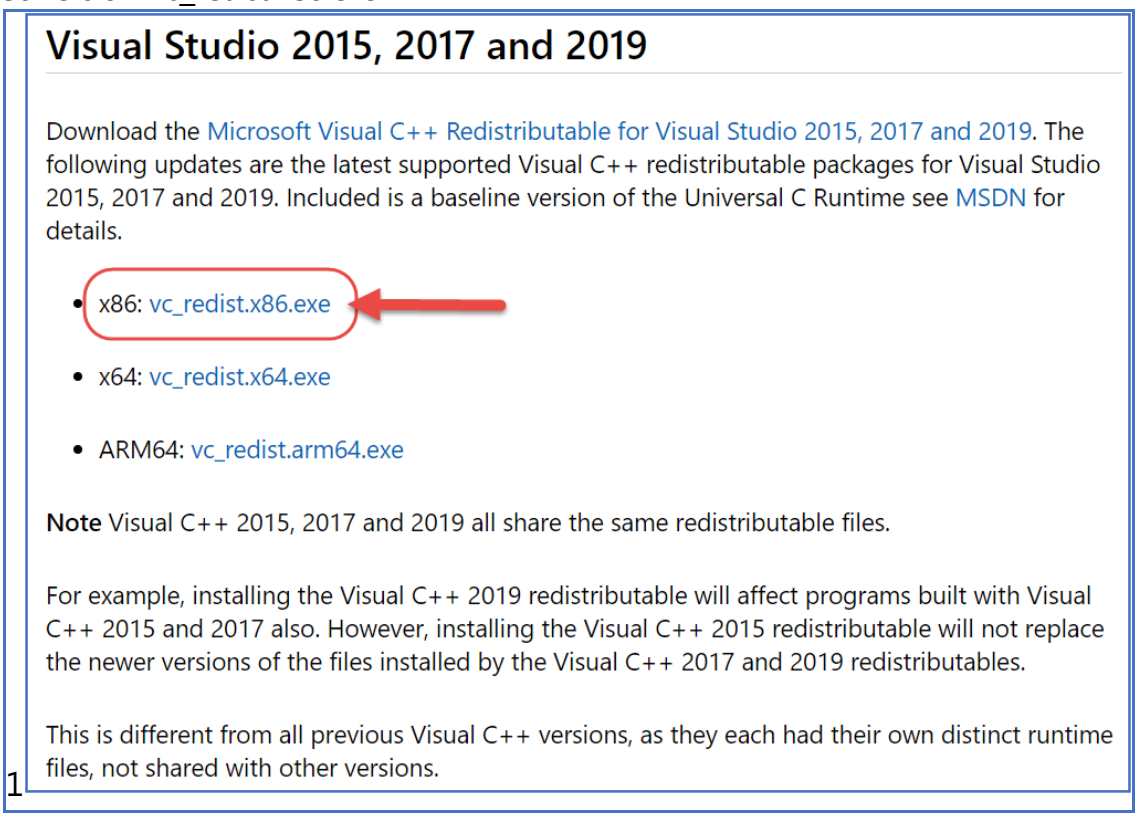


1. How to Create MySQL Environment

1.1. Go to Microsoft Official Website to download and Install

Linkage: https://support.microsoft.com/en-us/help/2977003/the-latest-supported-visual-c-downloads

Choose x86 version: vc_redist.x86.exe



Visual Studio 2015, 2017 and 2019

Download the Microsoft Visual C++ Redistributable for Visual Studio 2015, 2017 and 2019. The following updates are the latest supported Visual C++ redistributable packages for Visual Studio 2015, 2017 and 2019. Included is a baseline version of the Universal C Runtime see MSDN for details.

- x86: vc_redist.x86.exe
- x64: vc_redist.x64.exe
- ARM64: vc_redist.arm64.exe

Note Visual C++ 2015, 2017 and 2019 all share the same redistributable files.

For example, installing the Visual C++ 2019 redistributable will affect programs built with Visual C++ 2015 and 2017 also. However, installing the Visual C++ 2015 redistributable will not replace the newer versions of the files installed by the Visual C++ 2017 and 2019 redistributables.

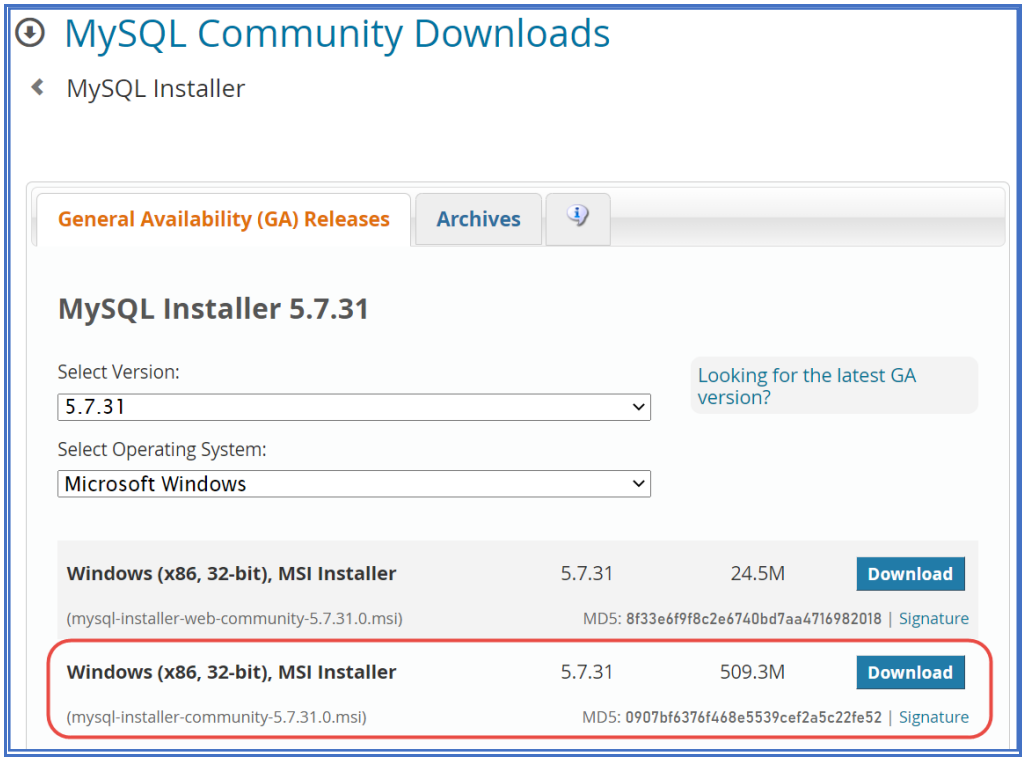
This is different from all previous Visual C++ versions, as they each had their own distinct runtime files, not shared with other versions.

1

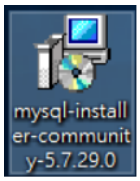
1.2. Go to MySQL Official Website to download and install the program

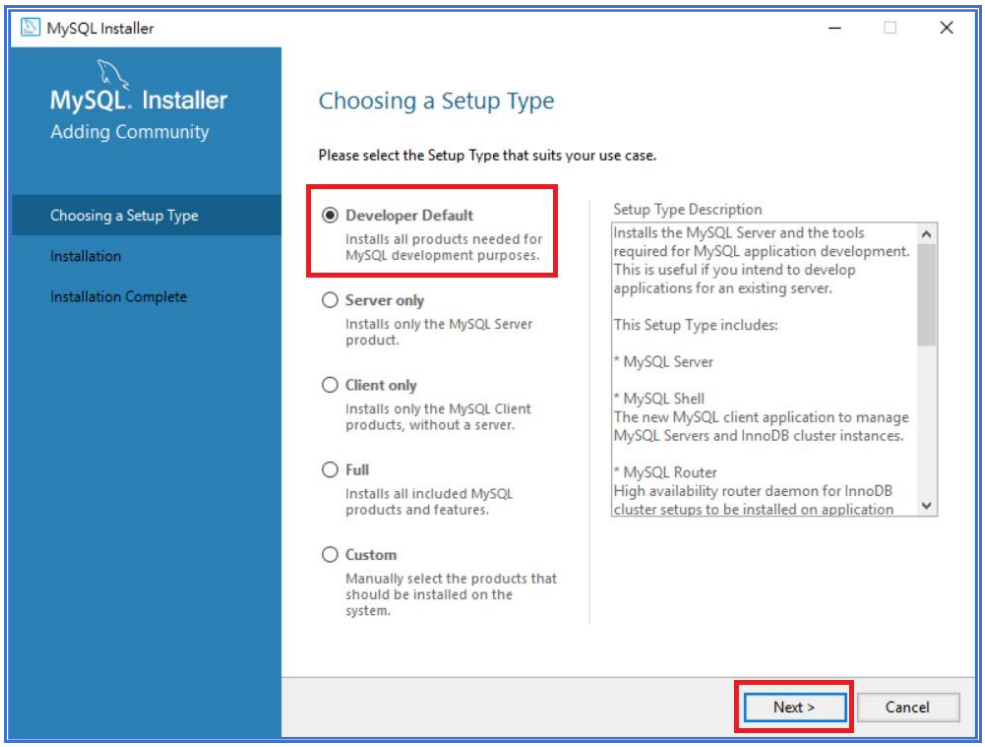
Linkage: https://dev.mysql.com/downloads/windows/installer/5.7.html

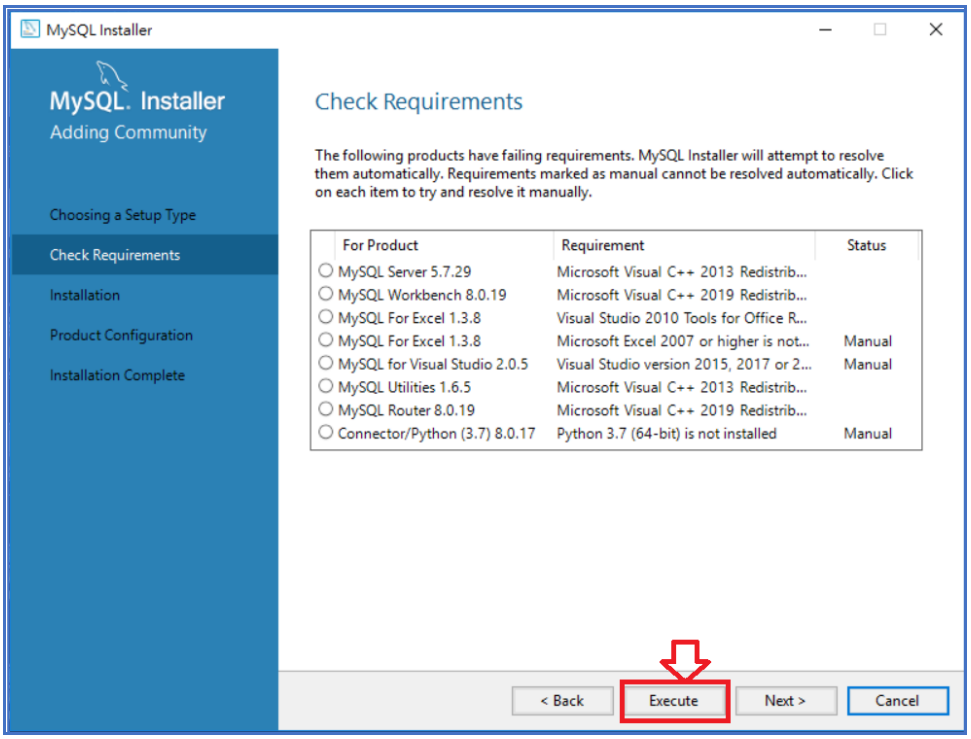
Choose the download program with larger file.

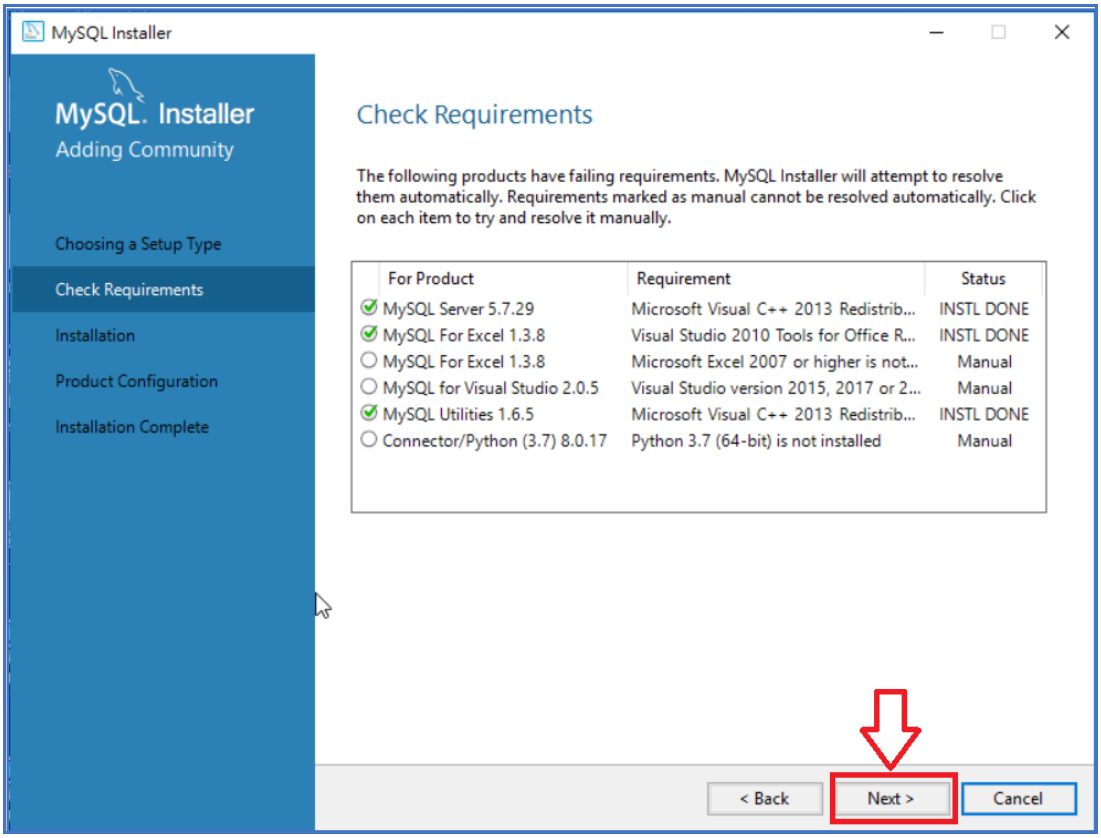


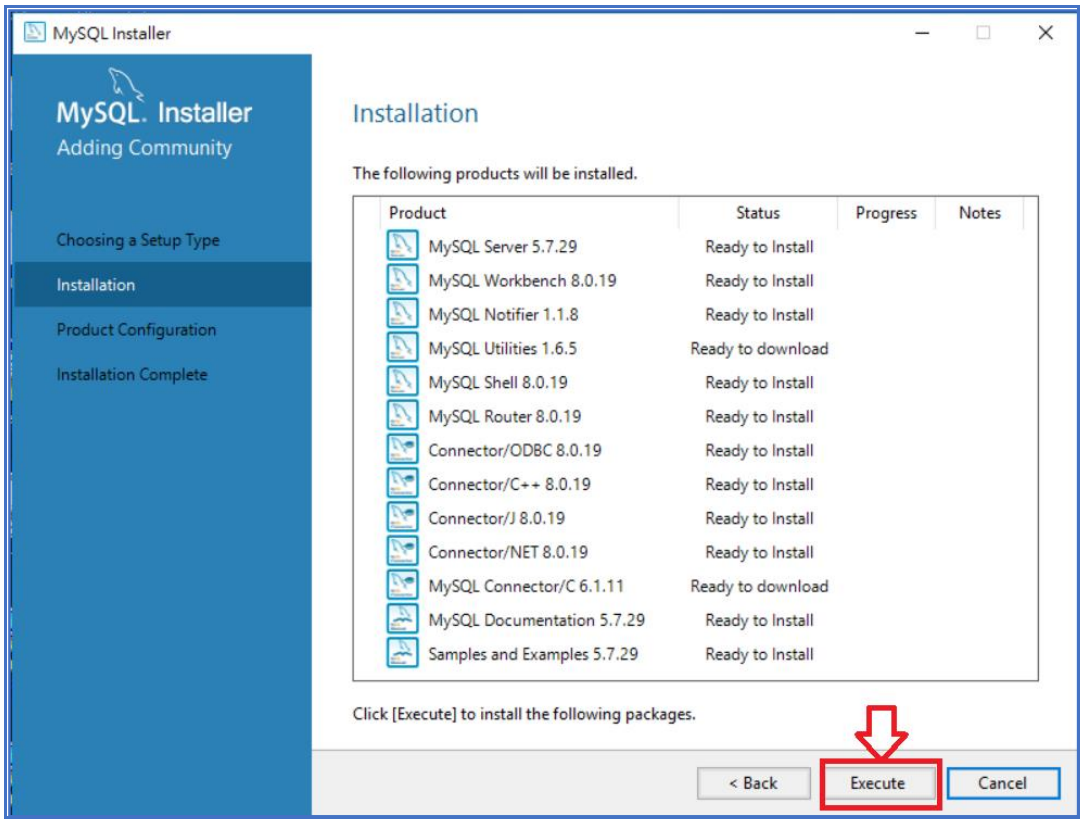
Execute to start Installation

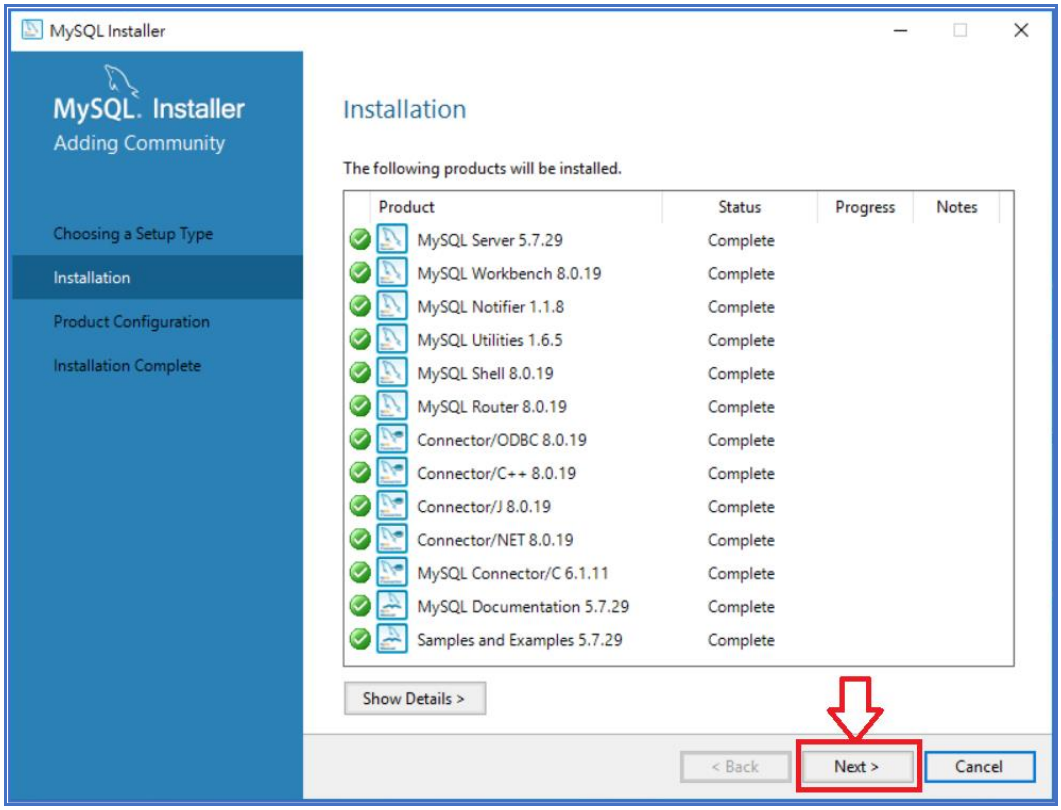


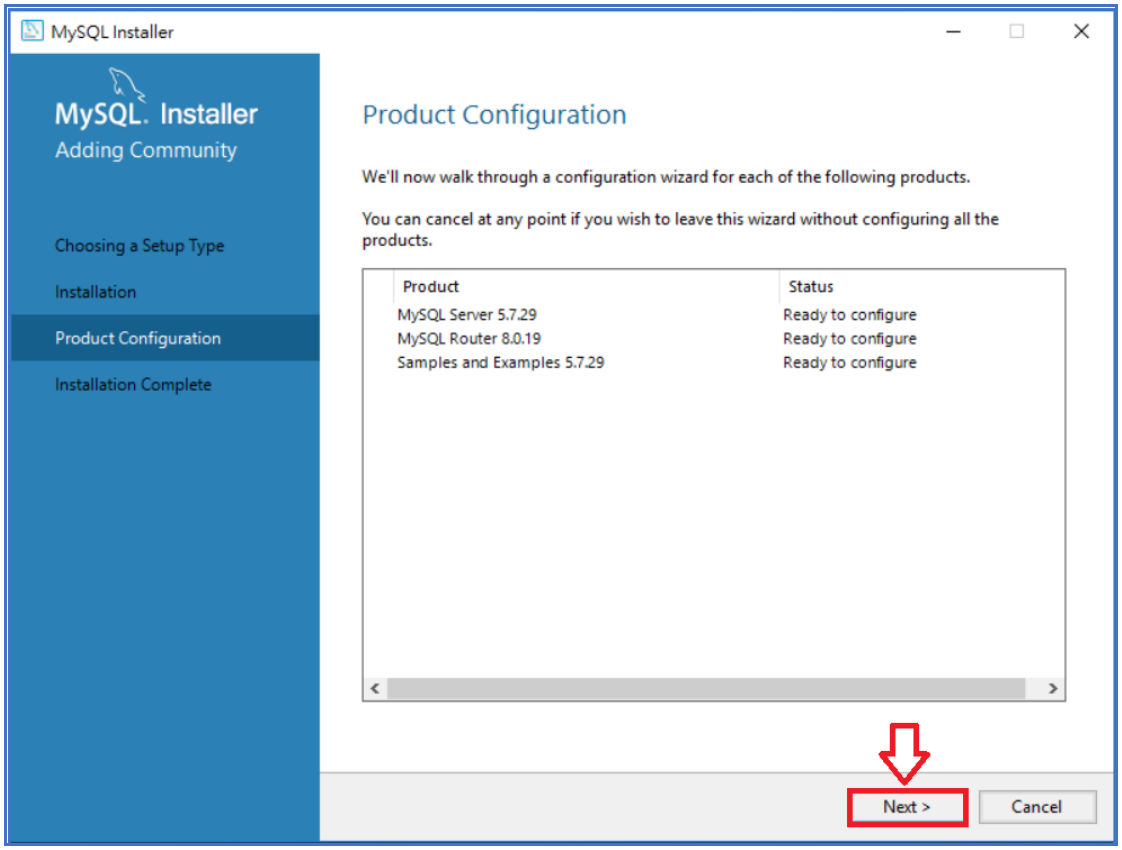


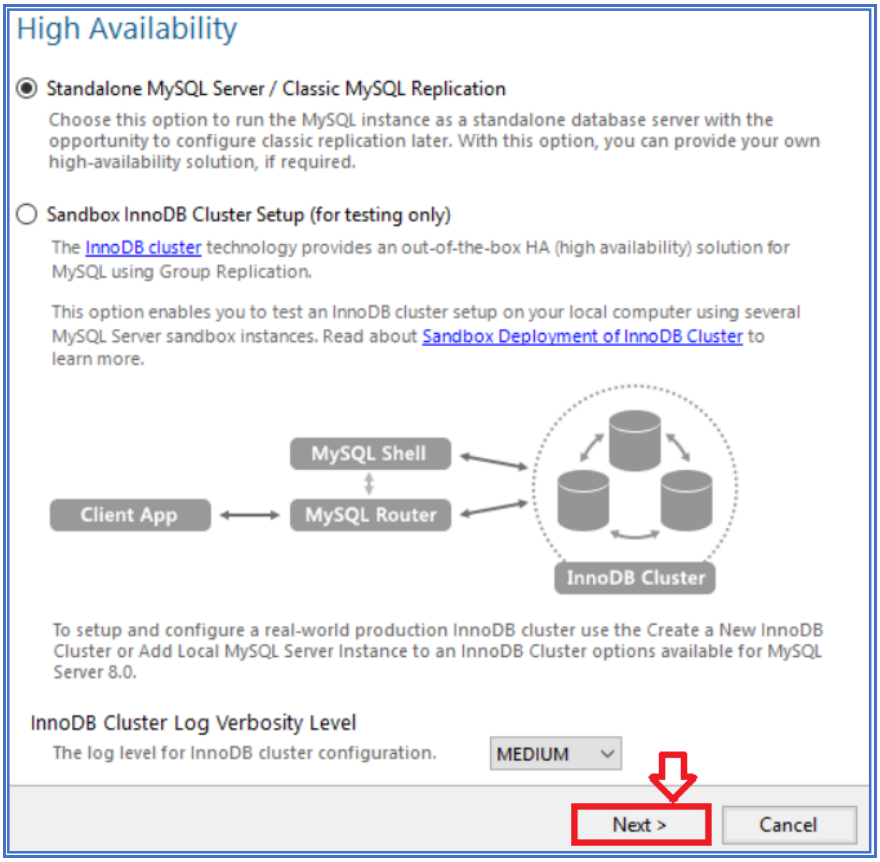


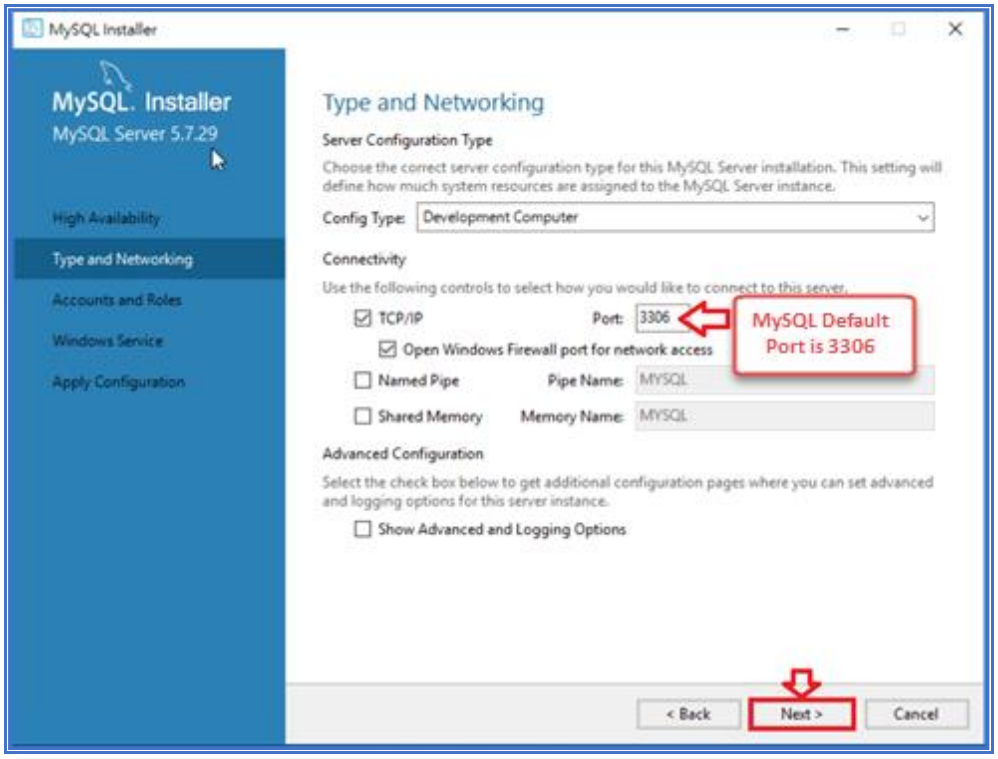

MySQL Installer
MySQL. Installer
Adding Community
Choosing a Setup Type
Check Requirements
Installation
Product Configuration
Installation Complete
Check Requirements
The following products have failing requirements. MySQL Installer will attempt to resolve them automatically. Requirements marked as manual cannot be resolved automatically. Click on each item to try and resolve it manually.
For Product
Requirement
Status
MySQL Server 5.7.29
Microsoft Visual C++ 2013 Redistrib...
INSTL DONE
MySQL For Excel 1.3.8
Visual Studio 2010 Tools for Office R...
INSTL DONE
MySQL For Excel 1.3.8
Microsoft Excel 2007 or higher is not...
Manual
MySQL for Visual Studio 2.0.5
Visual Studio version 2015, 2017 or 2...
Manual
MySQL Utilities 1.6.5
Microsoft Visual C++ 2013 Redistrib...
INSTL DONE
Connector/Python (3.7) 8.0.17
Python 3.7 (64-bit) is not installed
Manual
< Back
Next >
Cancel

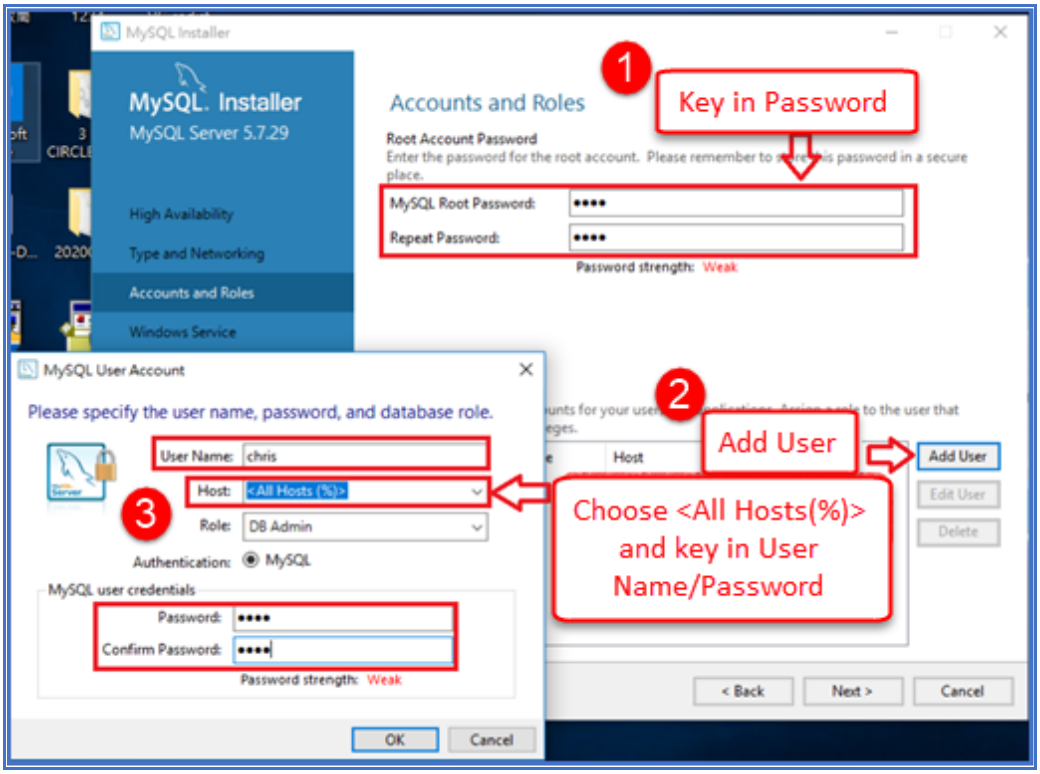

MySQL Installer
MySQL. Installer
Adding Community
Choosing a Setup Type
Installation
Product Configuration
Installation Complete
Installation
The following products will be installed.
Product
Status
Progress
Notes
MySQL Server 5.7.29
Ready to Install
MySQL Workbench 8.0.19
Ready to Install
MySQL Notifier 1.1.8
Ready to Install
MySQL Utilities 1.6.5
Ready to download
MySQL Shell 8.0.19
Ready to Install
MySQL Router 8.0.19
Ready to Install
Connector/ODBC 8.0.19
Ready to Install
Connector/C++ 8.0.19
Ready to Install
Connector/J 8.0.19
Ready to Install
Connector/NET 8.0.19
Ready to Install
MySQL Connector/C 6.1.11
Ready to download
MySQL Documentation 5.7.29
Ready to Install
Samples and Examples 5.7.29
Ready to Install
Click [Execute] to install the following packages.
< Back
Execute
Cancel

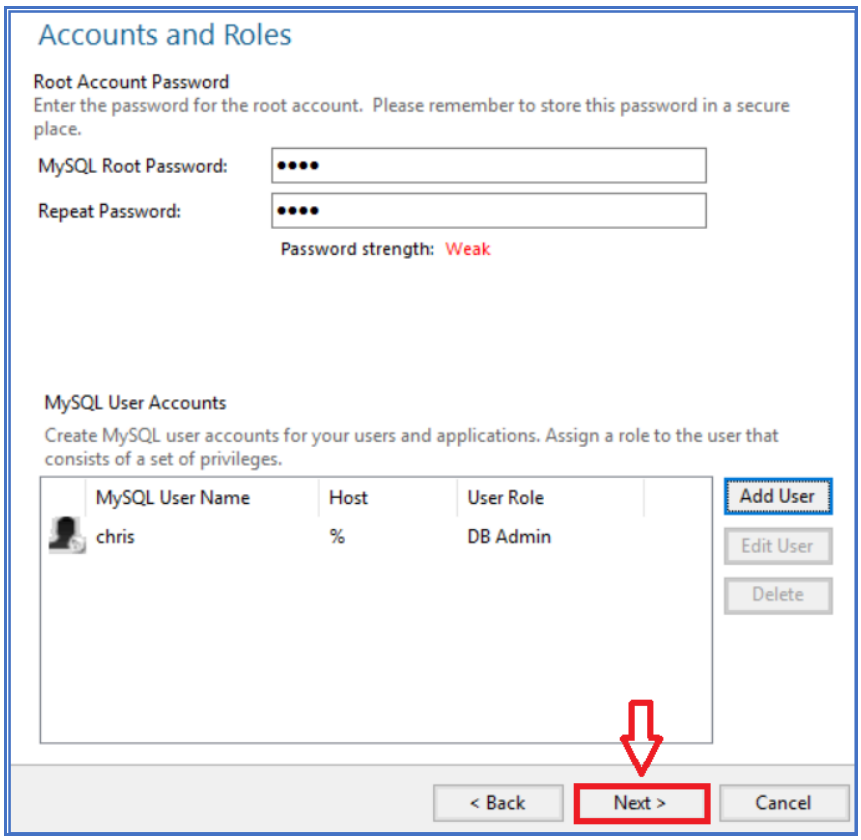

MySQL Installer
MySQL. Installer
Adding Community
Choosing a Setup Type
Installation
Product Configuration
Installation Complete
Installation
The following products will be installed.
Product
Status
Progress
Notes
MySQL Server 5.7.29
Complete
MySQL Workbench 8.0.19
Complete
MySQL Notifier 1.1.8
Complete
MySQL Utilities 1.6.5
Complete
MySQL Shell 8.0.19
Complete
MySQL Router 8.0.19
Complete
Connector/ODBC 8.0.19
Complete
Connector/C++ 8.0.19
Complete
Connector/J 8.0.19
Complete
Connector/NET 8.0.19
Complete
MySQL Connector/C 6.1.11
Complete
MySQL Documentation 5.7.29
Complete
Samples and Examples 5.7.29
Complete
Show Details >
< Back
Next >
Cancel

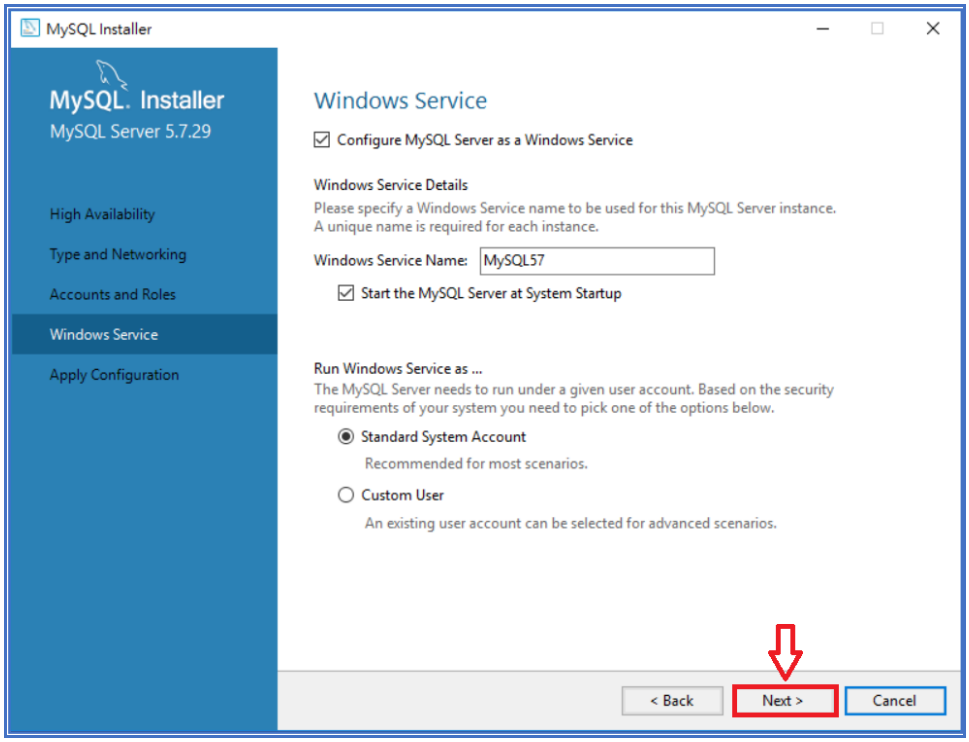

MySQL Installer
MySQL. Installer
Adding Community
Choosing a Setup Type
Installation
Product Configuration
Installation Complete
Product Configuration
We'll now walk through a configuration wizard for each of the following products.
You can cancel at any point if you wish to leave this wizard without configuring all the products.
Product
Status
MySQL Server 5.7.29
Ready to configure
MySQL Router 8.0.19
Ready to configure
Samples and Examples 5.7.29
Ready to configure
Next >
Cancel

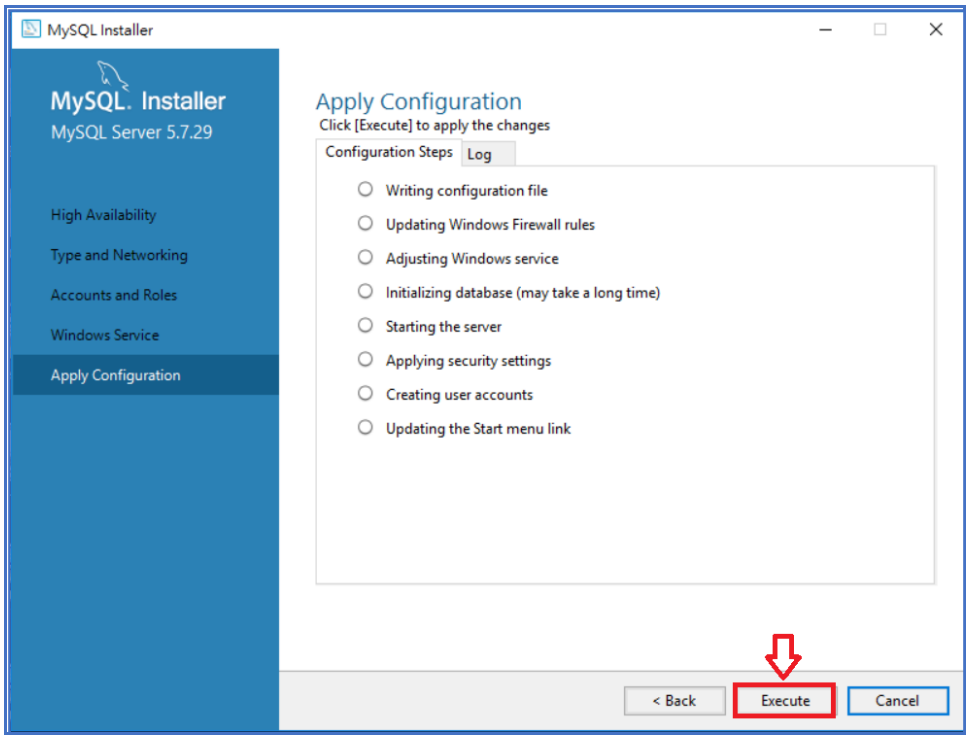

High Availability
Standalone MySQL Server / Classic MySQL Replication
Choose this option to run the MySQL instance as a standalone database server with the opportunity to configure classic replication later. With this option, you can provide your own high-availability solution, if required.
Sandbox InnoDB 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

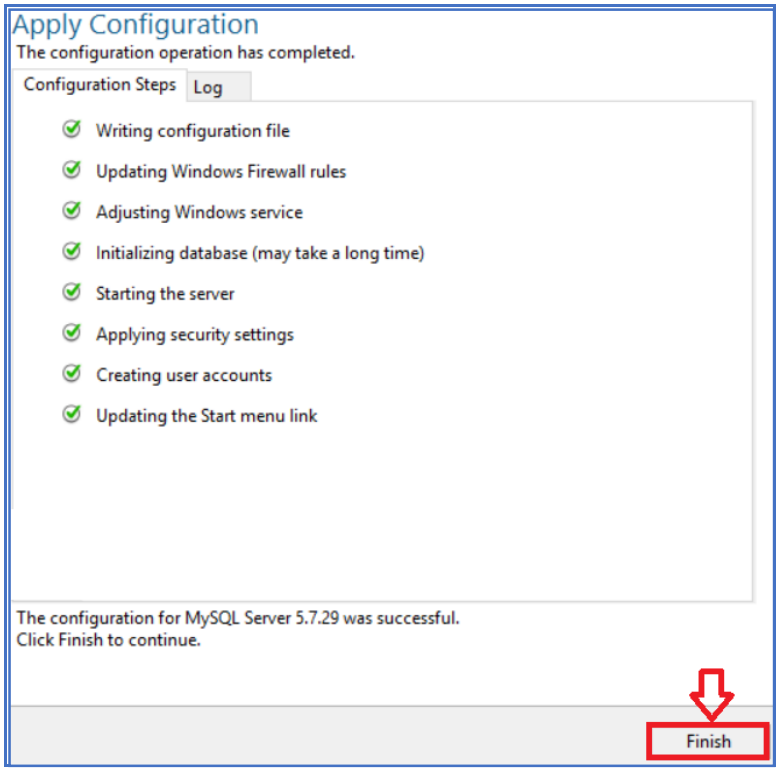

MySQL Installer
MySQL. Installer
MySQL Server 5.7.29
High Availability
Type and Networking
Accounts and Roles
Windows Service
Apply Configuration
Type and Networking
Server Configuration Type
Choose the correct server configuration type for this MySQL Server installation. This setting will define how 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
MySQL Default Port is 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

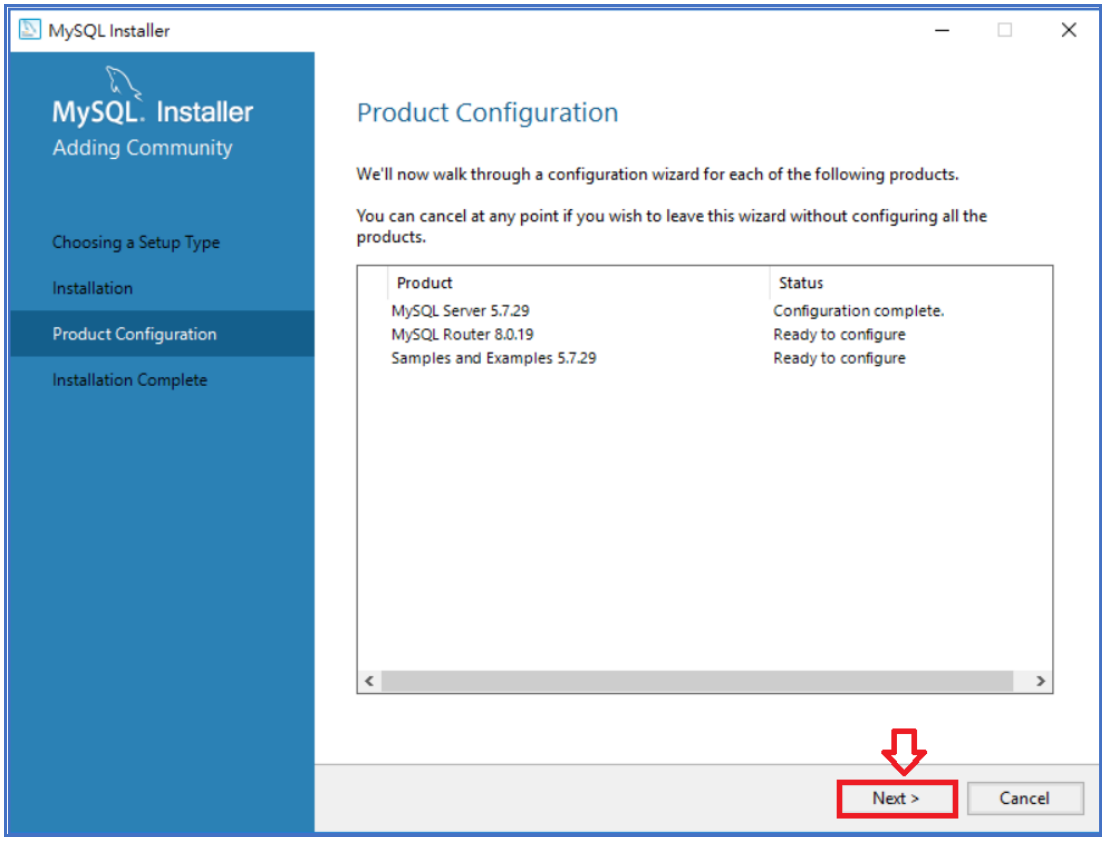

MySQL Installer
MySQL. Installer
MySQL Server 5.7.29
High Availability
Type and Networking
Accounts and Roles
Windows Service
Accounts and Roles
1
Key in Password
Root Account Password
Enter the password for the root account. Please remember to store this password in a secure place.
MySQL Root Password:
Repeat Password:
Password strength: Weak
MySQL User Account
Please specify the user name, password, and database role.
User Name: chris
Host: <All Hosts (%)>
Role: DB Admin
Authentication: MySQL
MySQL user credentials
Password:
Confirm Password:
Password strength: Weak
OK
Cancel
2
Add User
3
Choose <All Hosts(%)> and key in User Name/Password
Host
Add User
Edit User
Delete
< Back
Next >
Cancel

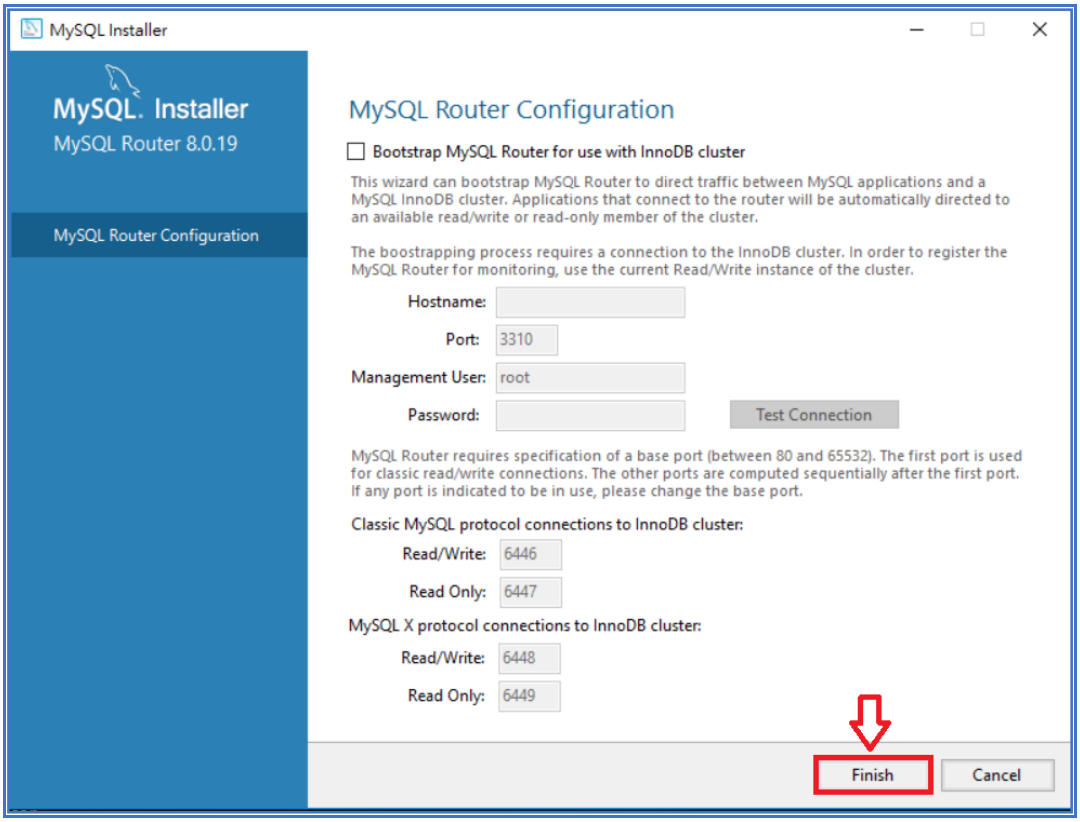

Accounts and Roles
Root Account Password
Enter the password for the root account. Please remember to store this password in a secure place.
MySQL Root Password:
Repeat Password:
Password strength: Weak
MySQL User Accounts
Create MySQL user accounts for your users and applications. Assign a role to the user that consists of a set of privileges.
MySQL User Name
Host
User Role
chris
%
DB Admin
Add User
Edit User
Delete
< Back
Next >
Cancel

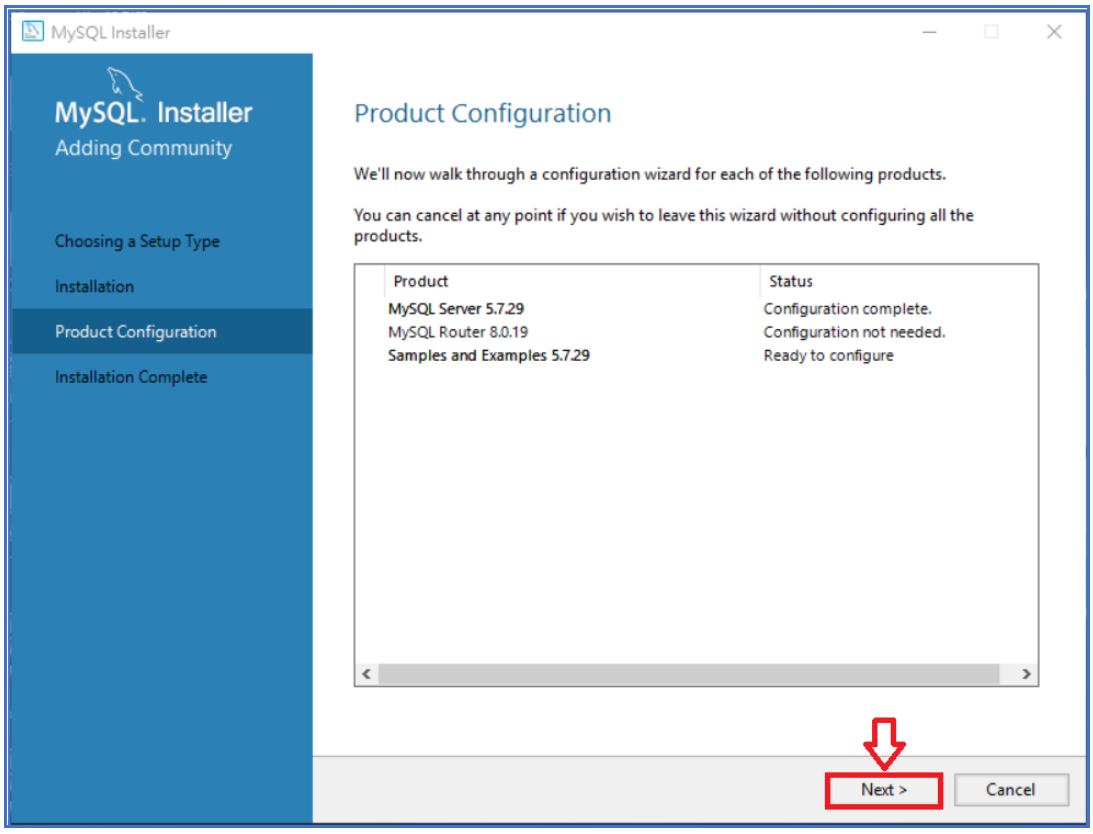

MySQL Installer
MySQL. Installer
MySQL Server 5.7.29
High Availability
Type and Networking
Accounts and Roles
Windows Service
Apply Configuration
Windows Service
Configure MySQL Server as a Windows Service
Windows Service Details
Please specify a Windows Service name to be used for this MySQL Server 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

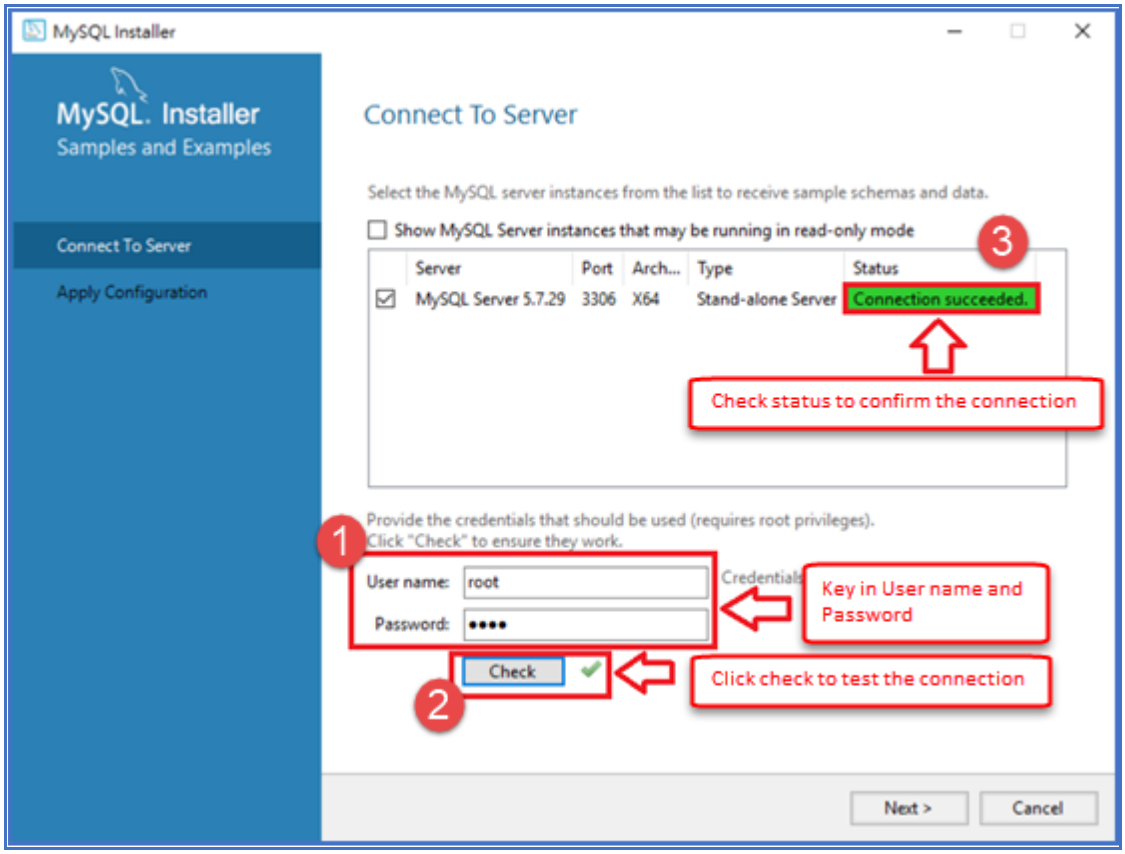

MySQL Installer
MySQL. Installer
MySQL Server 5.7.29
High Availability
Type and Networking
Accounts and Roles
Windows Service
Apply Configuration
Apply Configuration
Click [Execute] to apply the changes
Configuration Steps
Log
Writing configuration file
Updating Windows Firewall rules
Adjusting Windows service
Initializing database (may take a long time)
Starting the server
Applying security settings
Creating user accounts
Updating the Start menu link
< Back
Execute
Cancel

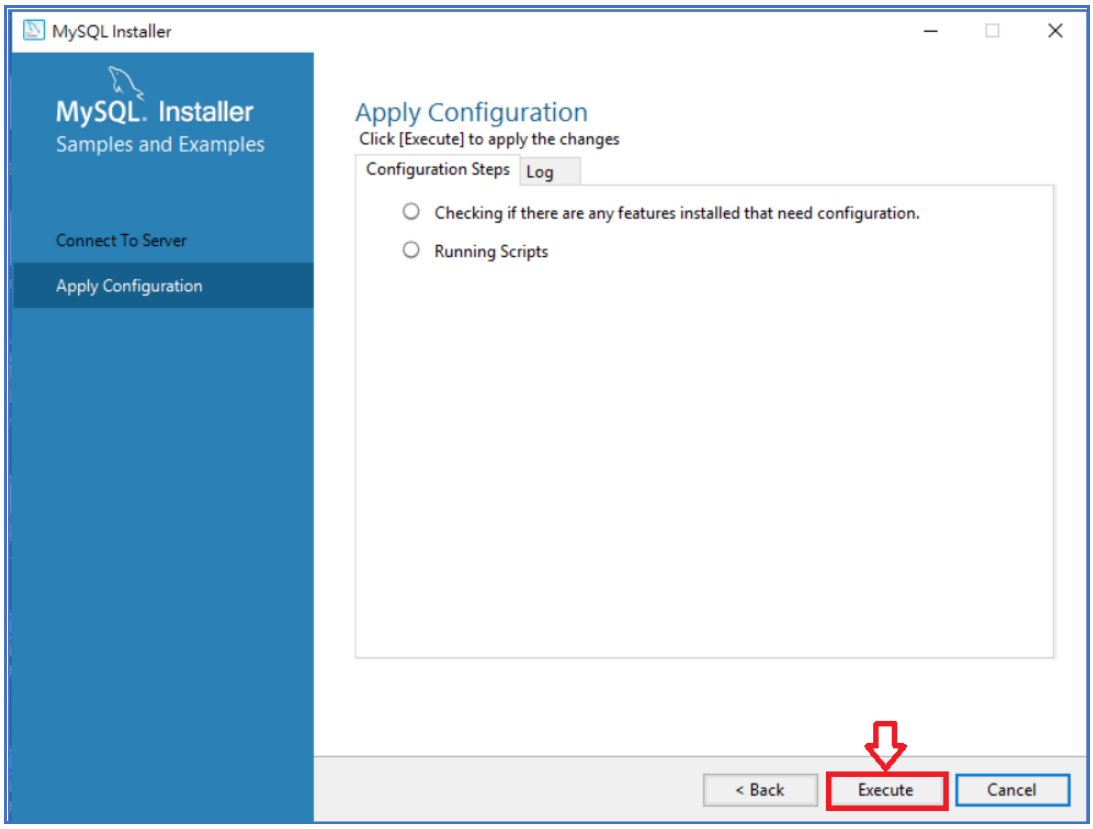

Apply Configuration
The configuration operation has completed.
Configuration Steps
Log
Writing configuration file
Updating Windows Firewall rules
Adjusting Windows service
Initializing database (may take a long time)
Starting the server
Applying security settings
Creating user accounts
Updating the Start menu link
The configuration for MySQL Server 5.7.29 was successful.
Click Finish to continue.
Finish

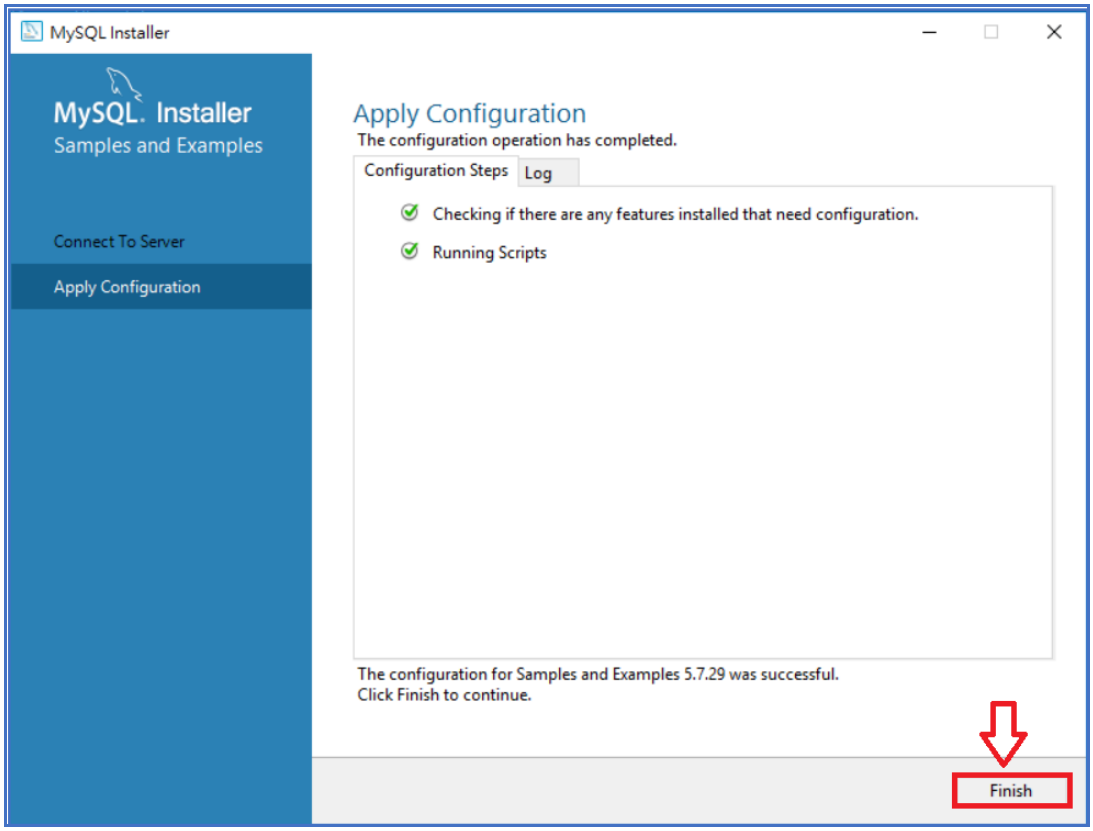

MySQL Installer
MySQL. Installer
Adding Community
Choosing a Setup Type
Installation
Product Configuration
Installation Complete
Product Configuration
We'll now walk through a configuration wizard for each of the following products.
You can cancel at any point if you wish to leave this wizard without configuring all the products.
Product
Status
MySQL Server 5.7.29
Configuration complete.
MySQL Router 8.0.19
Ready to configure
Samples and Examples 5.7.29
Ready to configure
Next >
Cancel

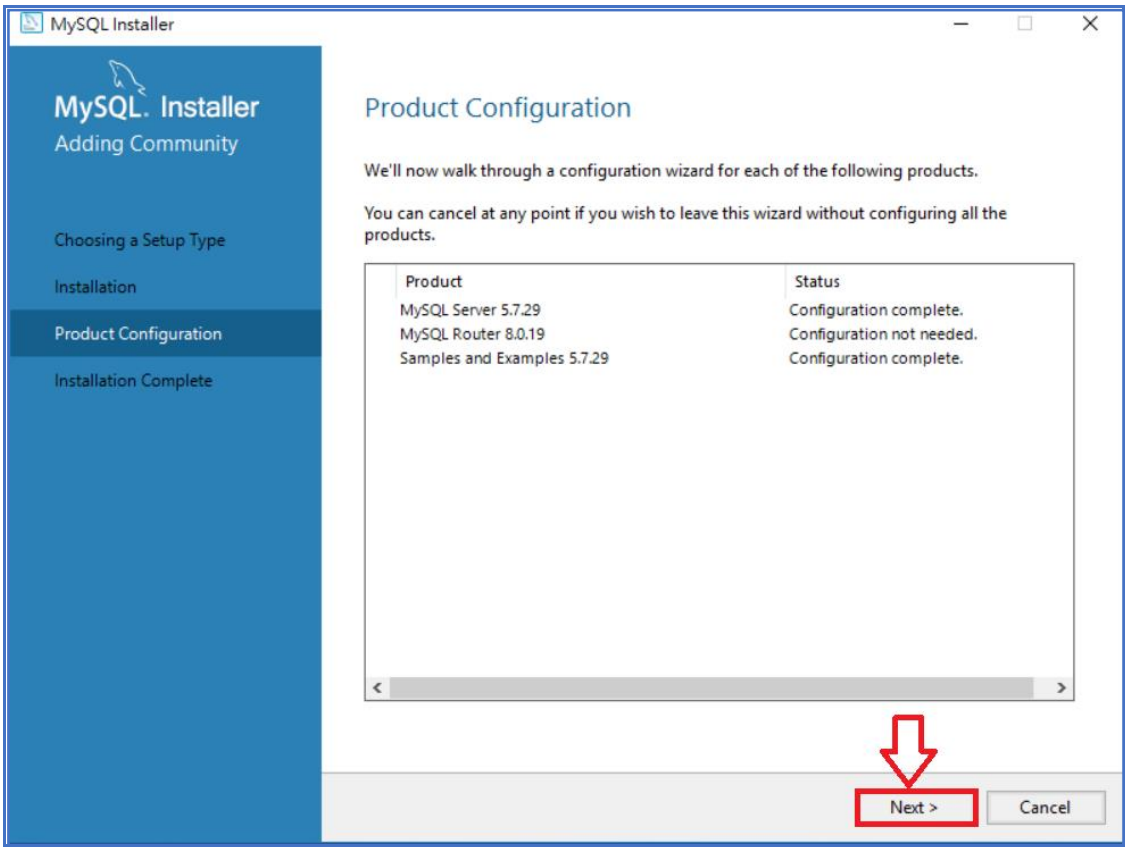

MySQL Installer
MySQL. Installer
MySQL Router 8.0.19
MySQL Router Configuration
MySQL Router Configuration
Bootstrap MySQL Router for use with InnoDB cluster
This wizard can bootstrap MySQL Router to direct traffic between MySQL applications and a MySQL InnoDB cluster. Applications that connect to the router will be automatically directed to an available read/write or read-only member of the cluster.
The boostrapping process requires a connection to the InnoDB cluster. In order to register the MySQL Router for monitoring, use the current Read/Write instance of the cluster.
Hostname:
Port: 3310
Management User: root
Password:
Test Connection
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: 6446
Read Only: 6447
MySQL X protocol connections to InnoDB cluster:
Read/Write: 6448
Read Only: 6449
Finish
Cancel


MySQL Installer
MySQL. Installer
Adding Community
Choosing a Setup Type
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 5.7.29
Configuration complete.
MySQL Router 8.0.19
Configuration not needed.
Samples and Examples 5.7.29
Ready to configure
Next >
Cancel

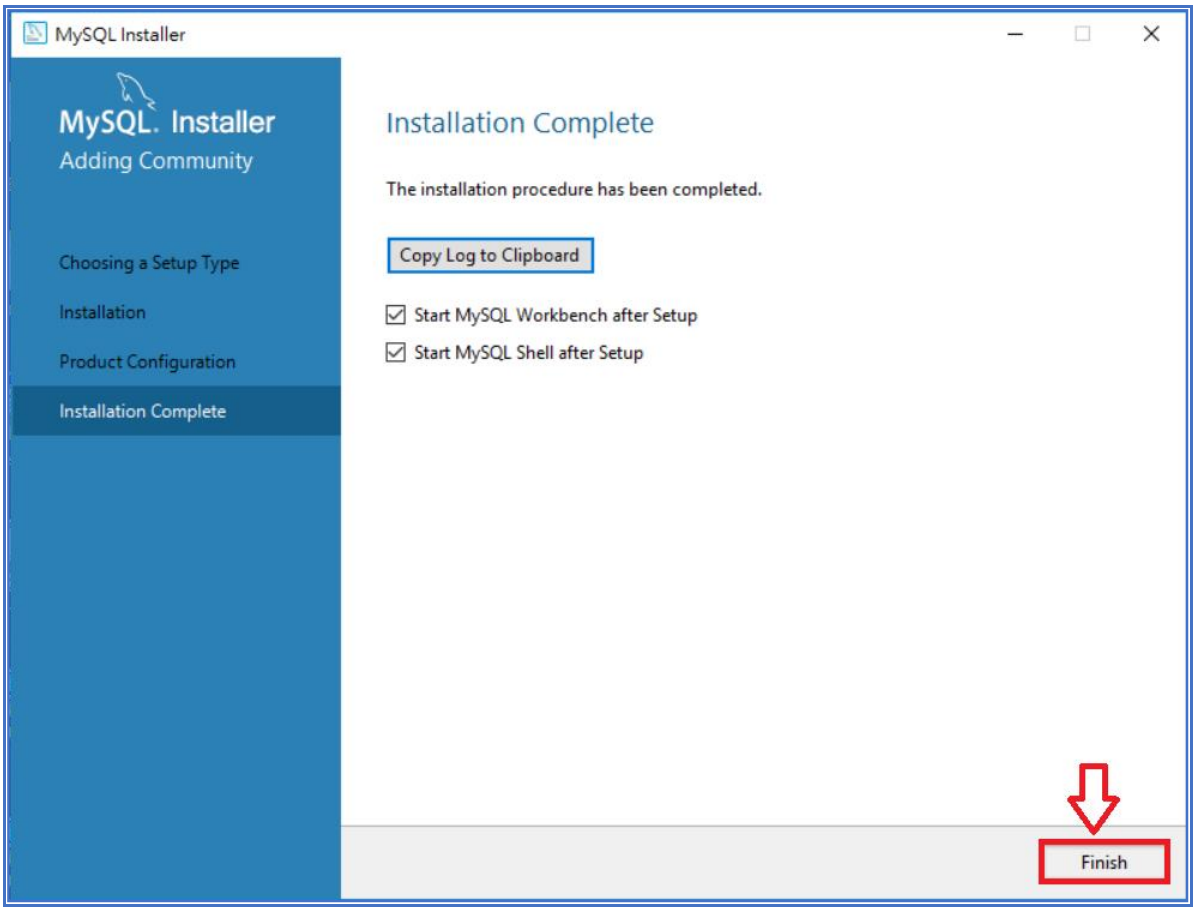

MySQL Installer
MySQL. Installer
Samples and Examples
Connect To Server
Apply Configuration
Connect To Server
Select the MySQL server instances from the list to receive sample schemas and data.
Show MySQL Server instances that may be running in read-only mode
Server
Port
Arch...
Type
Status
MySQL Server 5.7.29
3306
X64
Stand-alone Server
Connection succeeded.
3
Check status to confirm the connection
Provide the credentials that should be used (requires root privileges).
Click "Check" to ensure they work.
1
User name:
root
Password:
Credentials
Key in User name and Password
Check
2
Click check to test the connection
Next >
Cancel


MySQL Installer
MySQL. Installer
Samples and Examples
Connect To Server
Apply Configuration
Apply Configuration
Click [Execute] to apply the changes
Configuration Steps
Log
Checking if there are any features installed that need configuration.
Running Scripts
< Back
Execute
Cancel


MySQL Installer
MySQL. Installer
Samples and Examples
Connect To Server
Apply Configuration
Apply Configuration
The configuration operation has completed.
Configuration Steps
Log
Checking if there are any features installed that need configuration.
Running Scripts
The configuration for Samples and Examples 5.7.29 was successful.
Click Finish to continue.
Finish


MySQL Installer
MySQL. Installer
Adding Community
Choosing a Setup Type
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 5.7.29
Configuration complete.
MySQL Router 8.0.19
Configuration not needed.
Samples and Examples 5.7.29
Configuration complete.
Next >
Cancel

Click [Finish] to complete the installation.

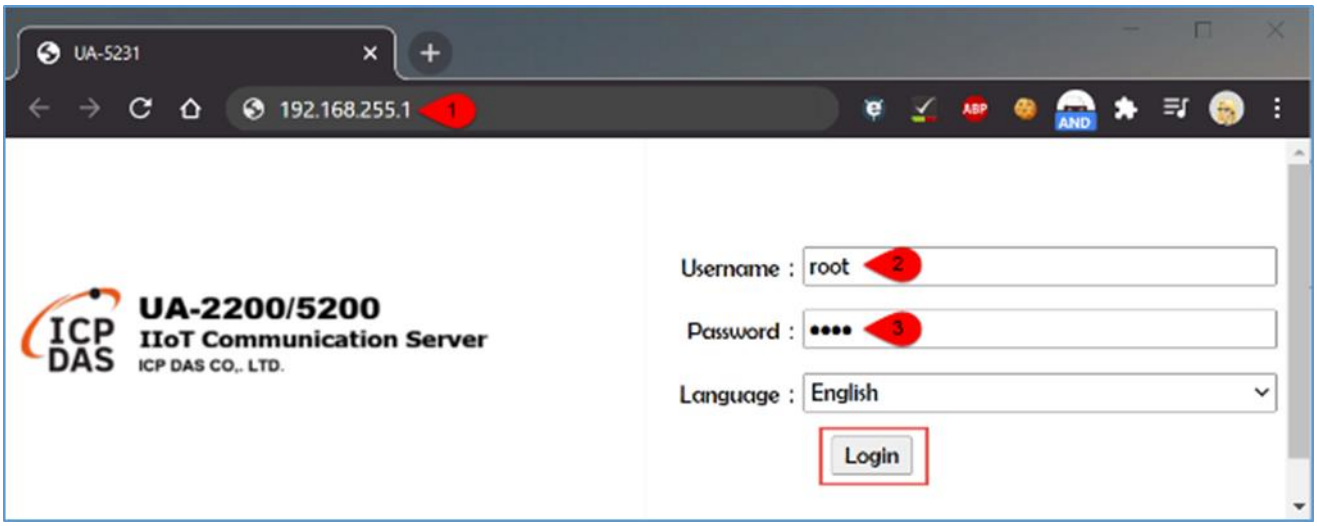


1.3. Go to MySQL Official Website to download and Install MySQL ODBC

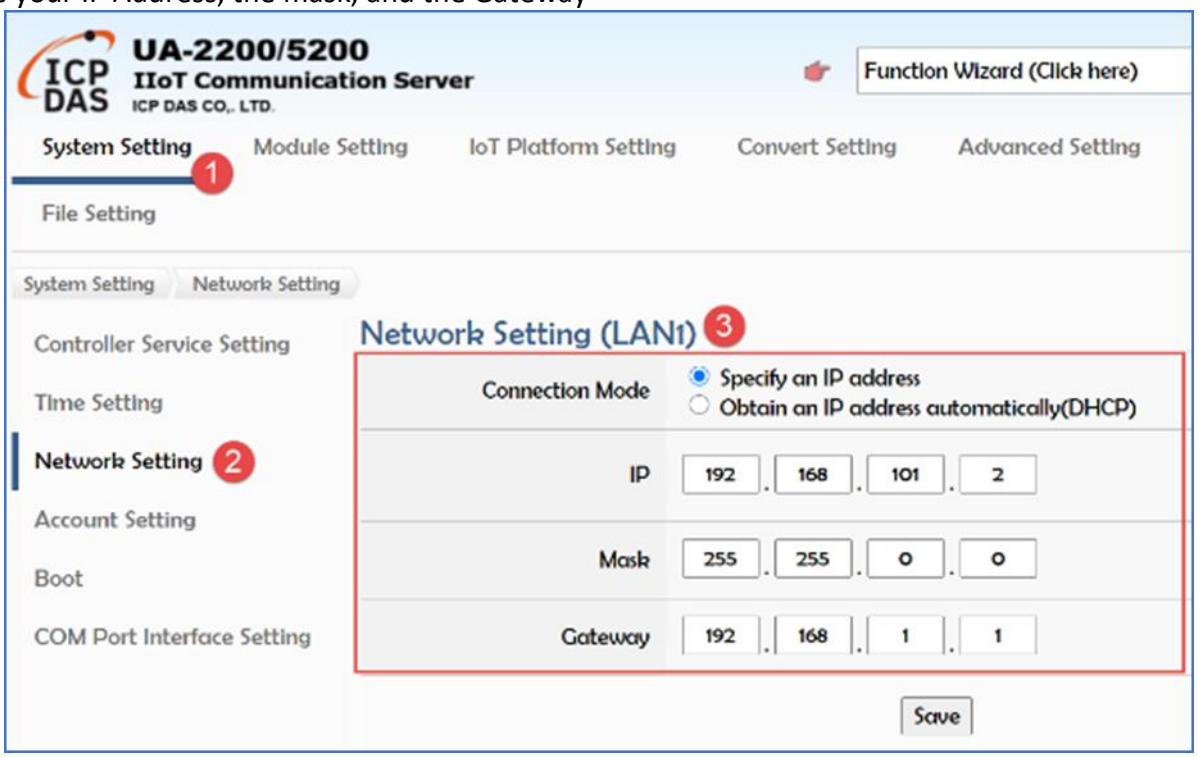
Linkage: https://dev.mysql.com/downloads/connector/odbc/
Choose Windows(x86, 32-bit), MSI Installer.

2. How to set up UA products to save Modbus RTU data into SQL?

1. Key in following address in the URL bar: http://192.168.255.1
2. When the Web UI show up, key in default Username: root
3. Key in default Password: root

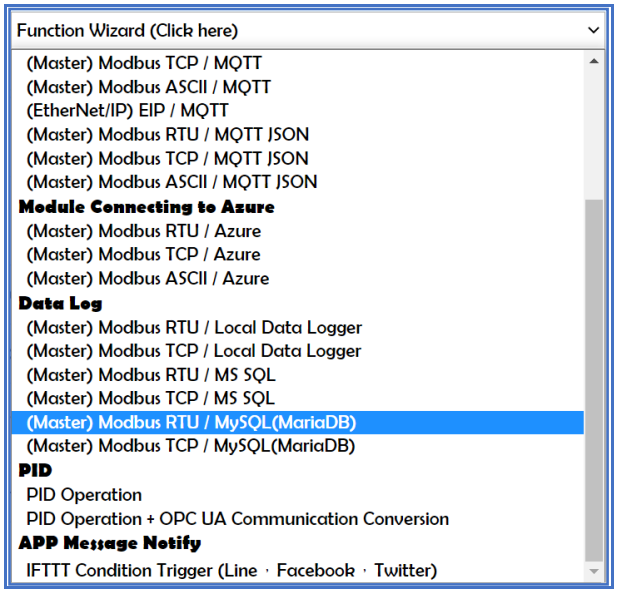


After successful Login, go to【System Setting】=>【Network Setting】=>【Network Setting (LAN1)】to change your IP Address, the mask, and the Gateway



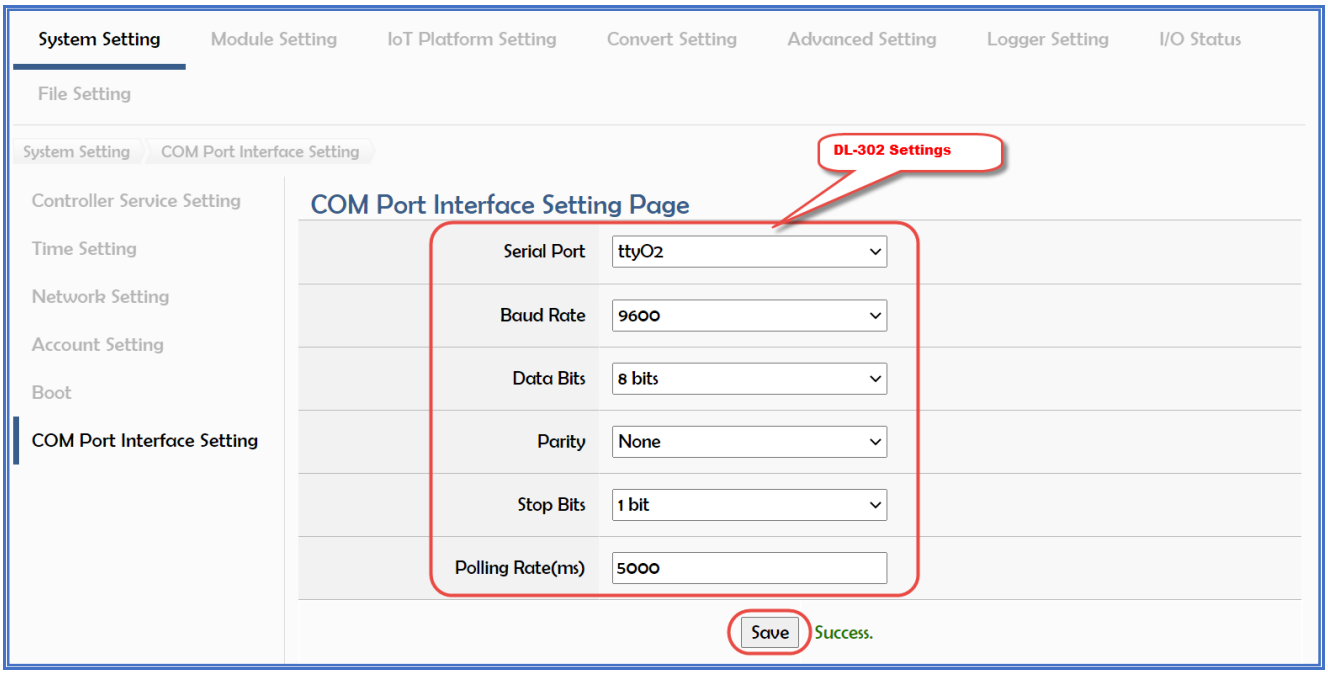
Then click "Save".

After reload the Web UI page, find "Data Log" and choose **"(Master) Modbus RTU / My SQL(MariaDB)"** from the drop-down menu on the upper-right corner.



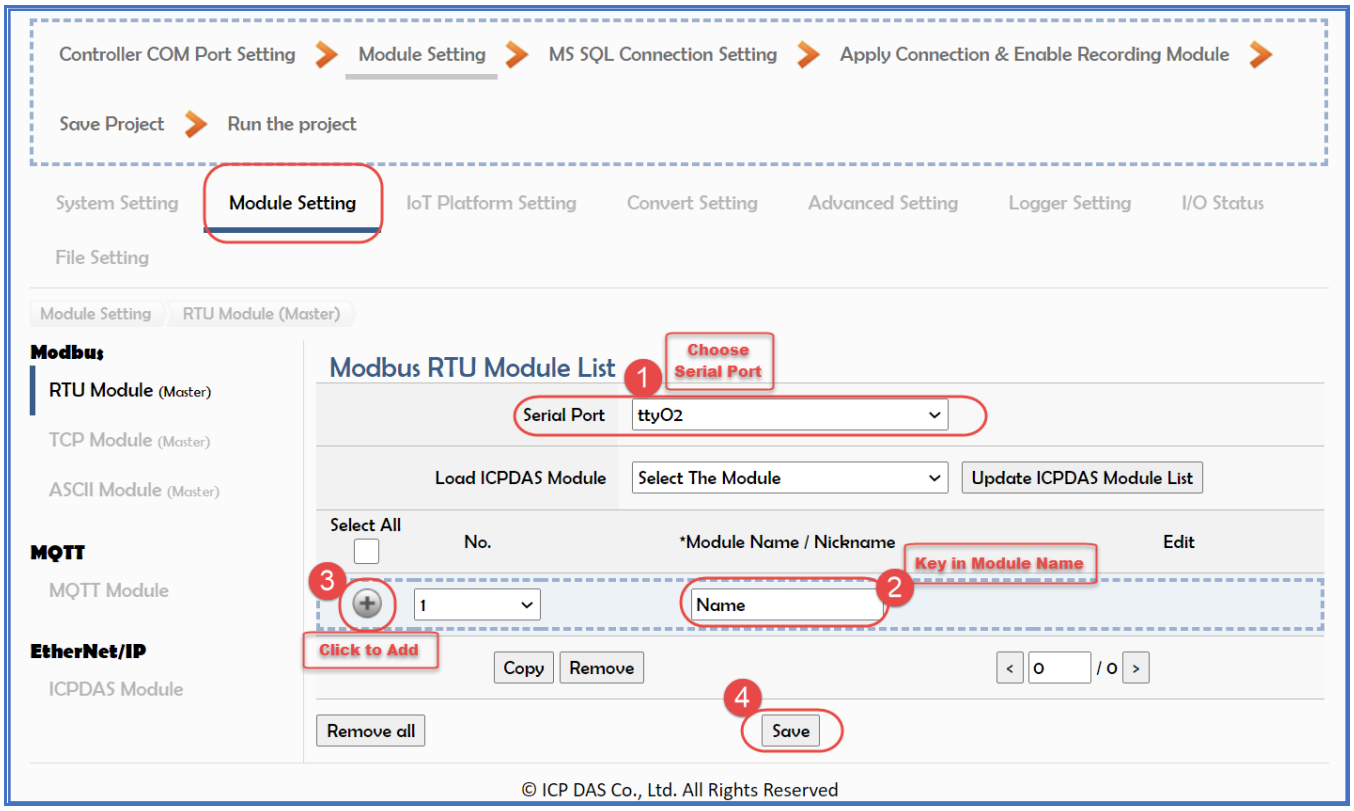
Follow the Wizard step-by-step to finish the Project.

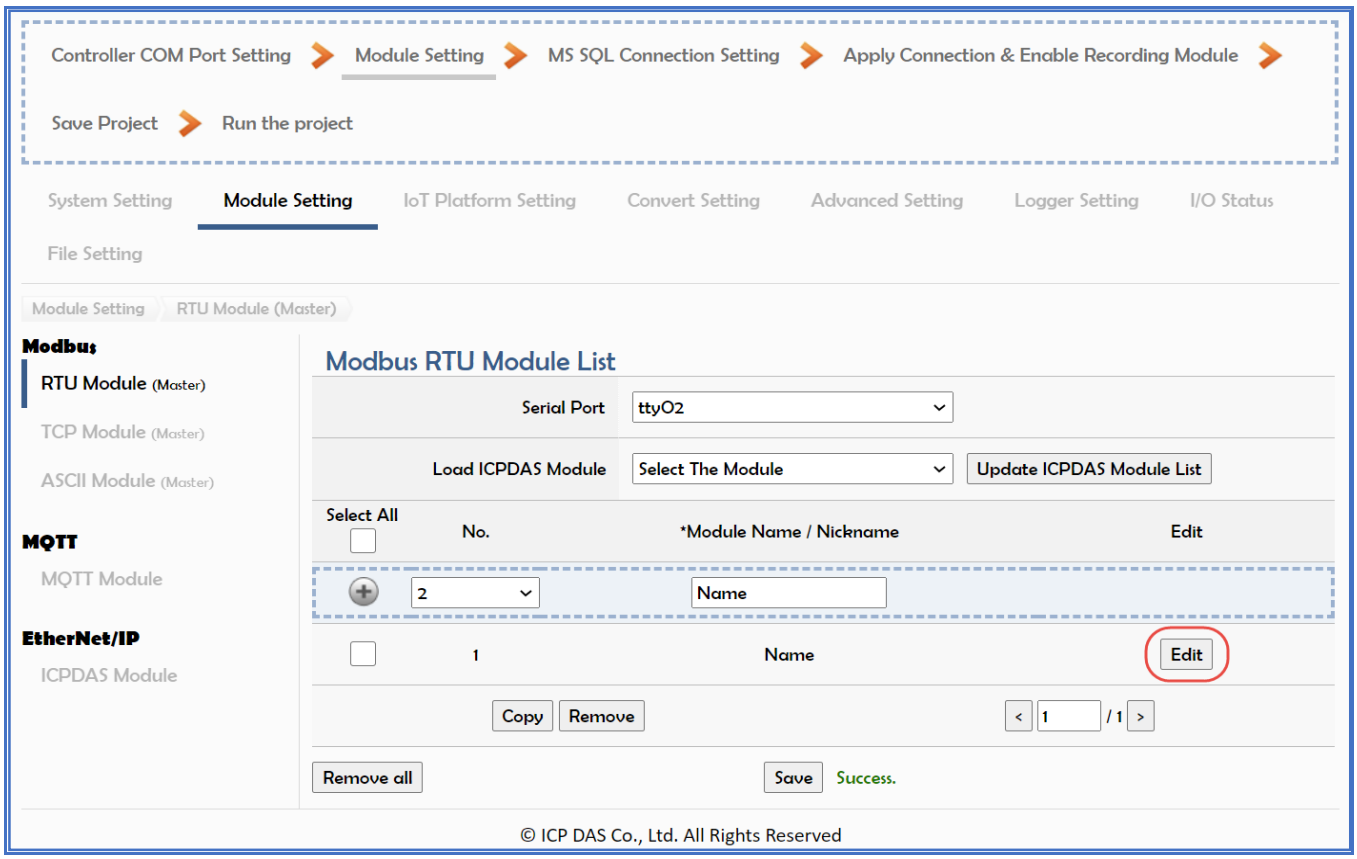
2.1. Step 1: COM Port Setting (Take DL-302 as an example)

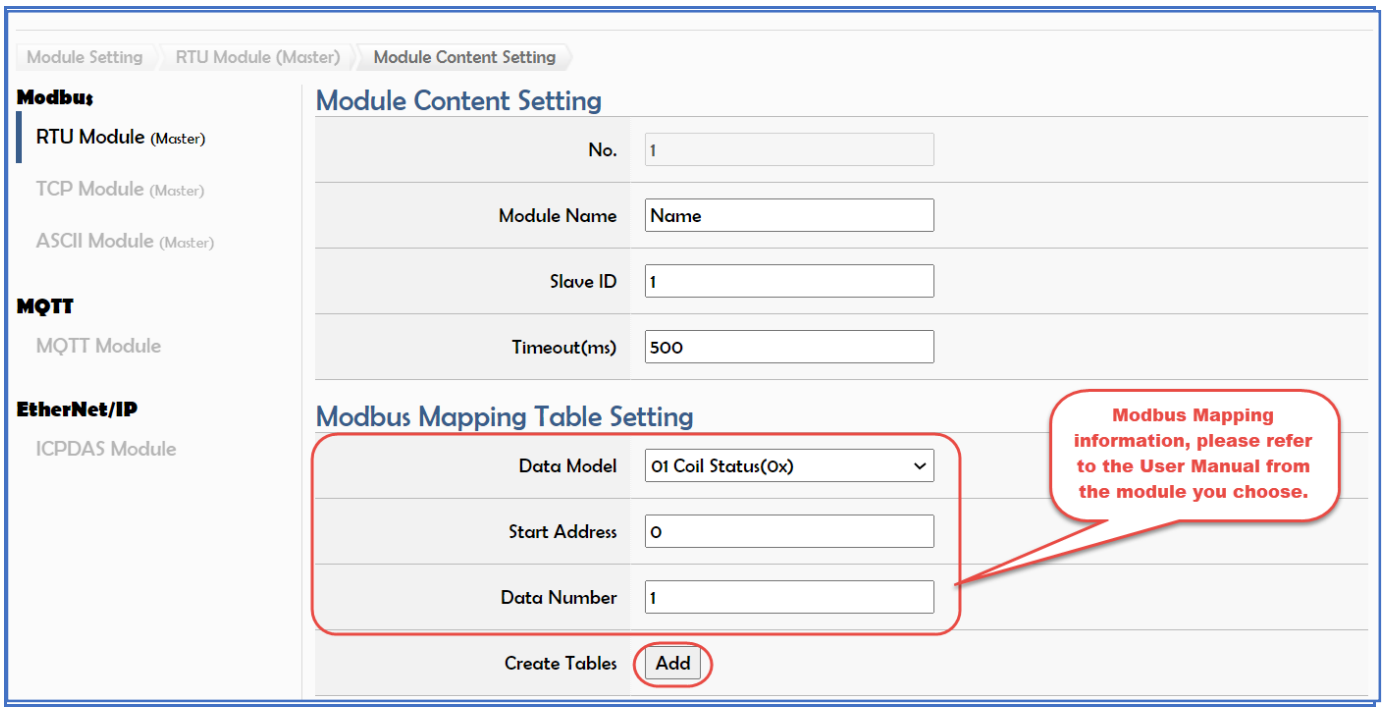


Address: Sets the address for a module.
Default: 1 Range: 0 ~ 255
Protocol: Sets the communication protocol.
- ModbusRTU (default) - DCON - DCONChkSum: uses DCON protocol and enables checksum validation feature
Baud Rate
Default: 9600 Support Baud Rate: 1200/ 2400/ 4800/ 9600/ 19200/ 38400/ 57600/ 115200 (unit: bps)
Parity
Default: N,8,1 Support format: N81, N82, E81, O81
Response Delay (ms): Sets the delay time between receiving the command and sending the data.
Default: 0 ms Range: 0 ~ 30 (unit: ms)
Save: Saves the modification and returns to the Settings menu. All the changes take effect immediately after saving changes.
Skip: Returns to the Settings menu without saving any changes.

2.2. Step 2: Module Setting





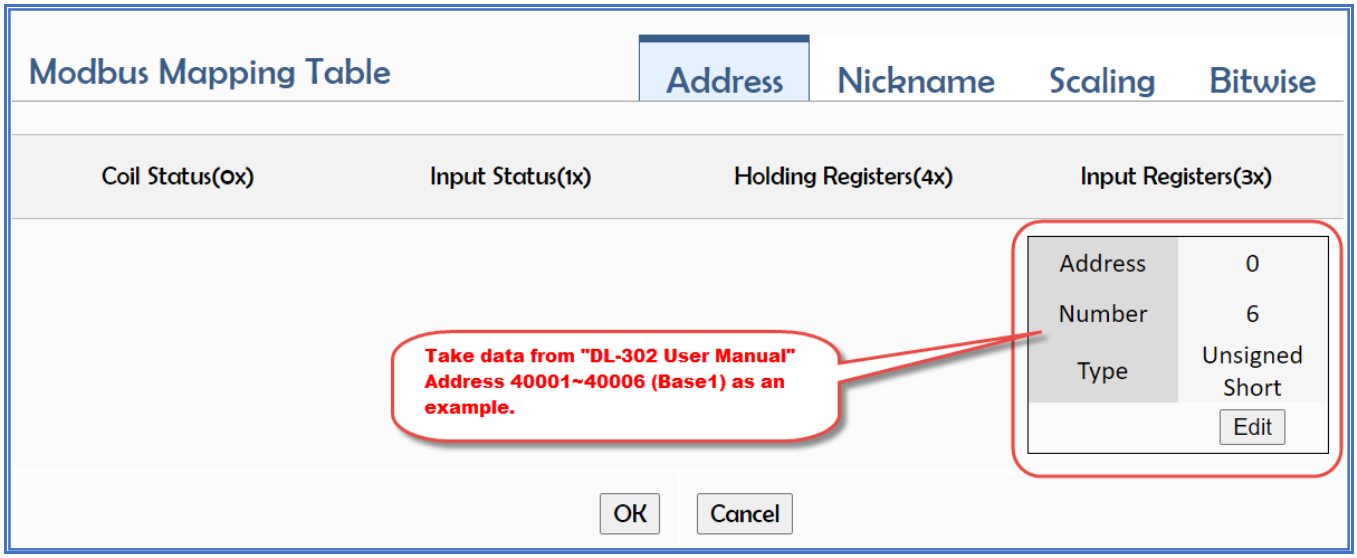


Module Content Setting	
No.	The module number in the module list (Not editable here)
Module Name	Give a name, e.g. model number or name. Default: Name.
Slave ID	Set the module Slave ID of the UA. (Range: 1 ~ 247)
Timeout	Set the timeout value for the module. Default: 500 ms
Modbus Mapping Table Setting	
Data Model	System provides 4 Modbus data models "01" ~ "04" for mapping to address of DO, DI, AO and AI. (ex. 01: DO channels, 02: DI, 03: AO, 04: AI) 01 Coil Status(0x) 02 Input Status(1x) 03 Holding Registers(4x) 04 Input Registers(3x)
Start Address	The start address of the Modbus command. **Note:** the Start Address of UA is bass on 0, even if some modules are bass on 1, here it needs to follow UA to set bass on 0.
Data Number	The number of the Modbus address. Need to give enough number for the DO, DI, AO, AI channels of the module. Default: 1.
Type	This item only when the data model is 03 or 04. Choose the suitable data type: 16-bit Short, 16-bit Unsigned Short, 32-bit Long, 32-bit Unsigned Long, 32-bit Float, 64-bit Double.
Create Tables	Click [Add] button, it will add a table in the Modbus mapping table.

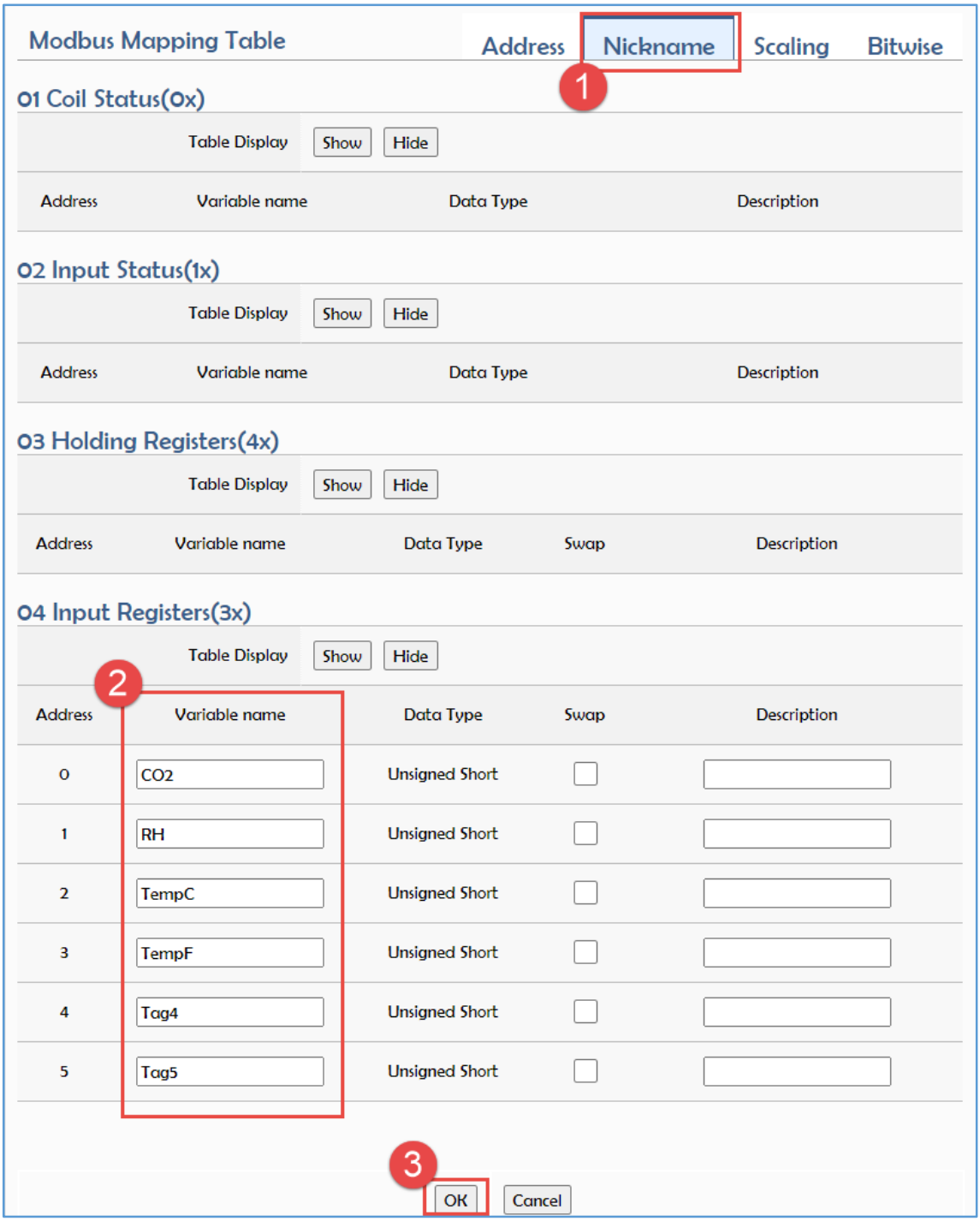
DL-302 Modbus Address Mappings (Base 1)

Address	Description	Attribute
30001 ~ 30006 40001 ~ 40006	Analog input value of channel 0 to 5. channel 0: CO_2 in 1ppm, channel 1: relative humidity in 0.01%, channel 2: temperature in 0.01°C, channel 3:temperature in 0.01°F, channel 4: dew point temperature in 0.01°C, channel 5: dew point temperature in 0.01°F	R

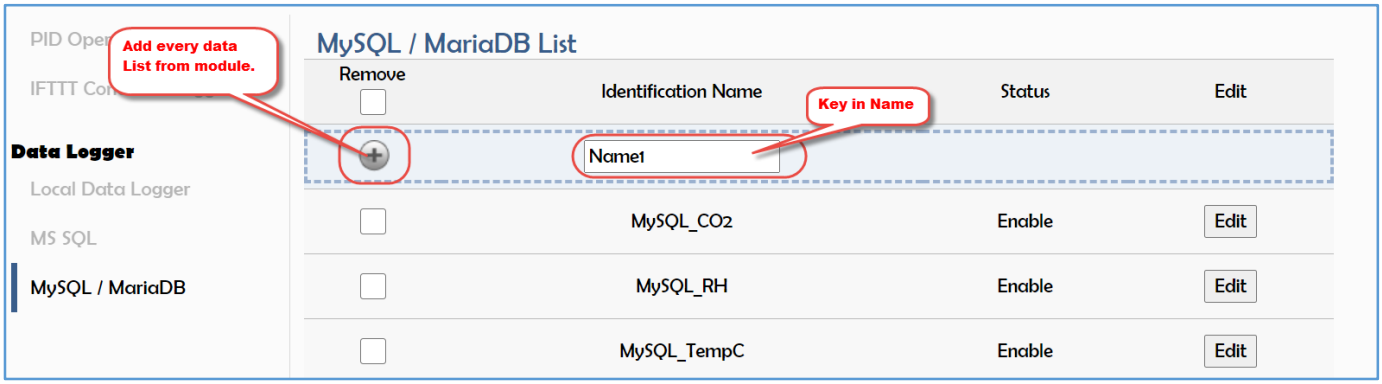
Modbus Mapping Table Setting: Modbus Mapping Table Display and Edit.

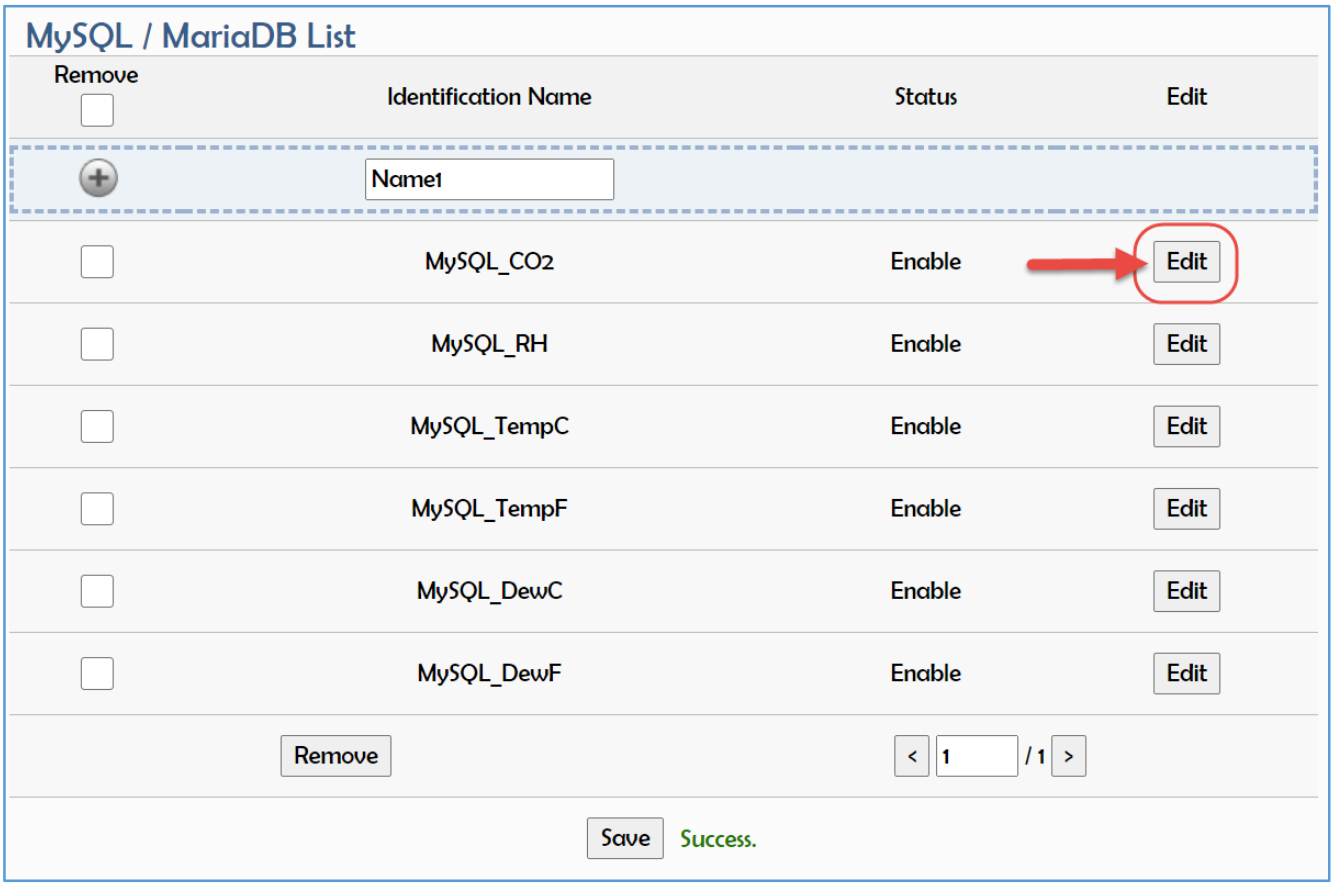


Nickname: To set the variable name and the description, please click the “Nickname” to add the information.

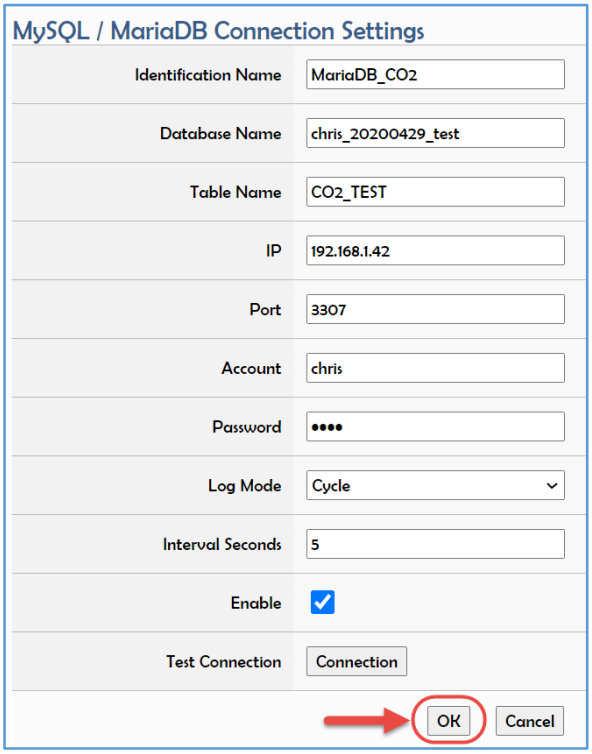


2.3. Step 3: MySQL /MariaDB Connection Setting



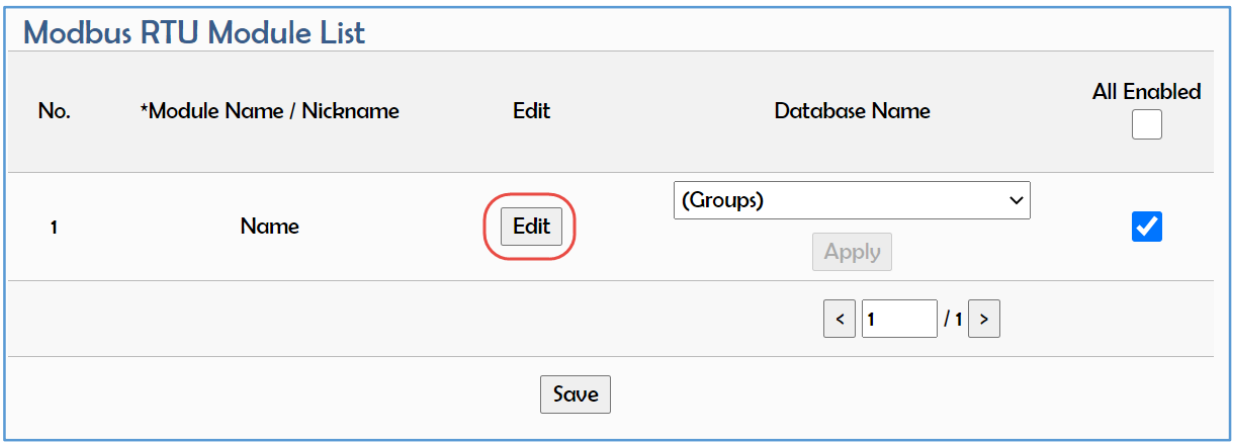


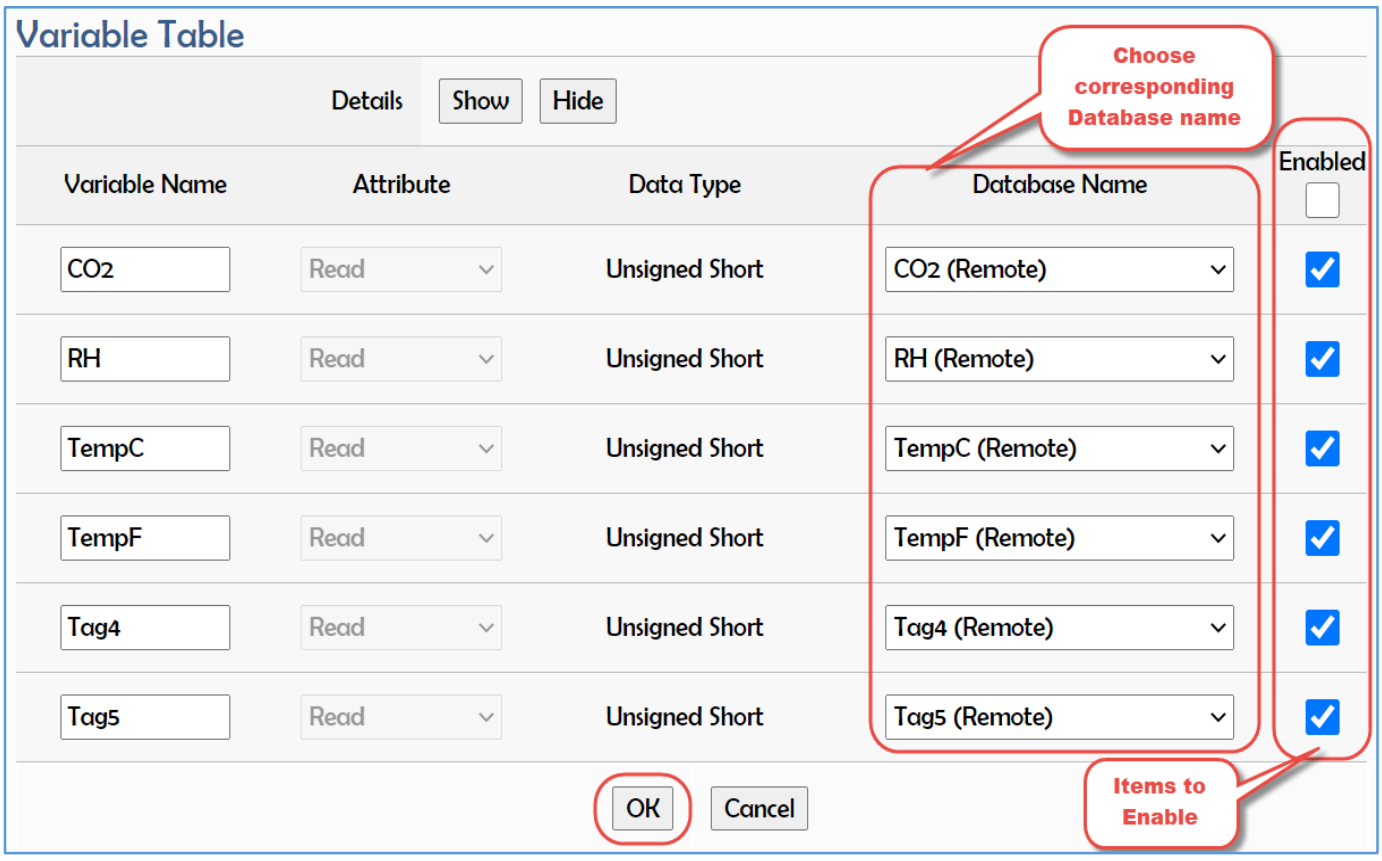
Key in all information that needs to write into Database and set the MySQL content.

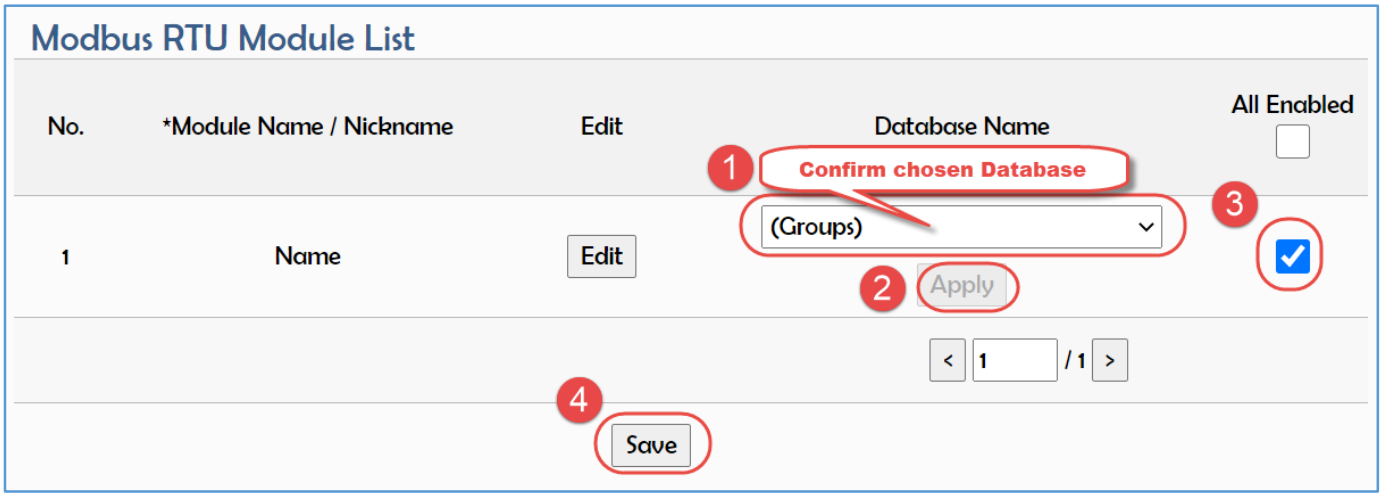


Advanced Setting > Data Logger > MySQL/MariaDB – Content Setting	
Identification Name	User defined name to identify the database.
Database Name	The name of the remote database. If the DB name not exist, it will create one DB.
Table Name	The IP address of the remote database. If the table name not exist, it will create one table.
IP	The Server IP and name of the remote database.
Port	The port to link with database. Default: 3306 (for MySQL), user defined.
Account	The login name of the remote database.
Password	The login password of the remote database.
Interval Seconds	Set up the interval time to save the I/O data to the remote database. Unit: Second.
Enable	Check to enable the data logger to the remote database. Default: check.
Test Connection	Click to test the connection to the remote database. Result: Success or Failure.
OK / Cancel	Click “OK” to save the settings of this page. Click “Cancel” to exit the setting page without saving.

2.4. Step 4: Apply Connection & Enable Recording Module

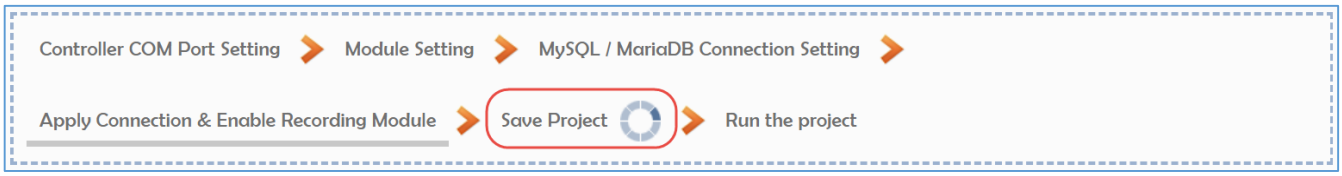




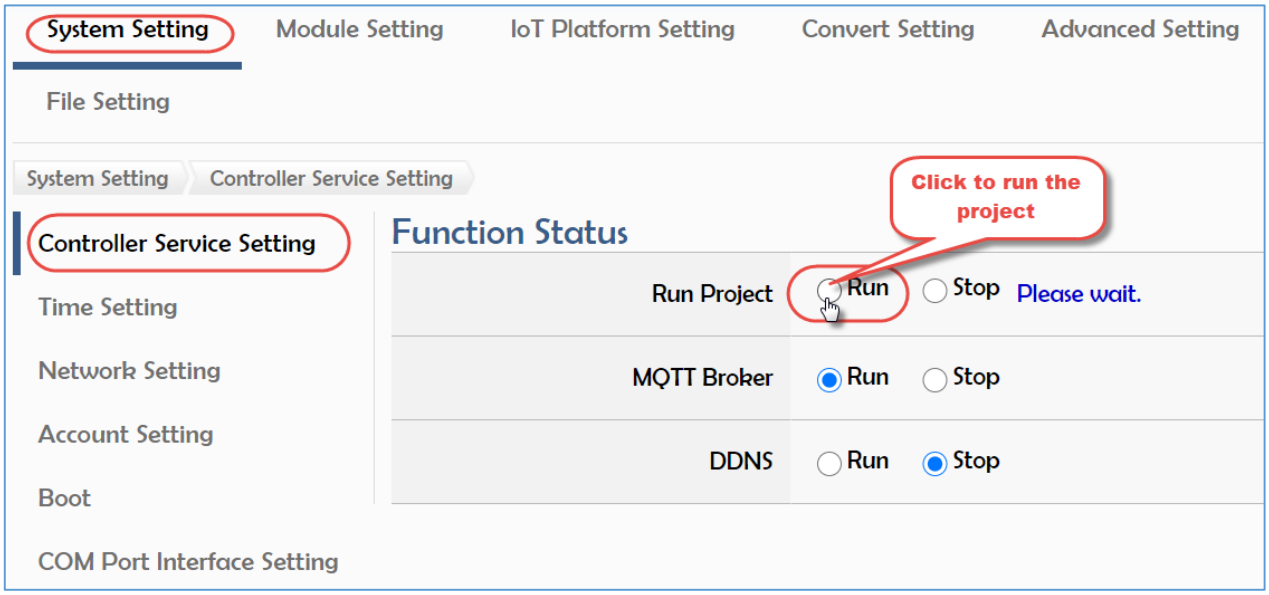


2.5. Step 5~6: Save/ Run the Project

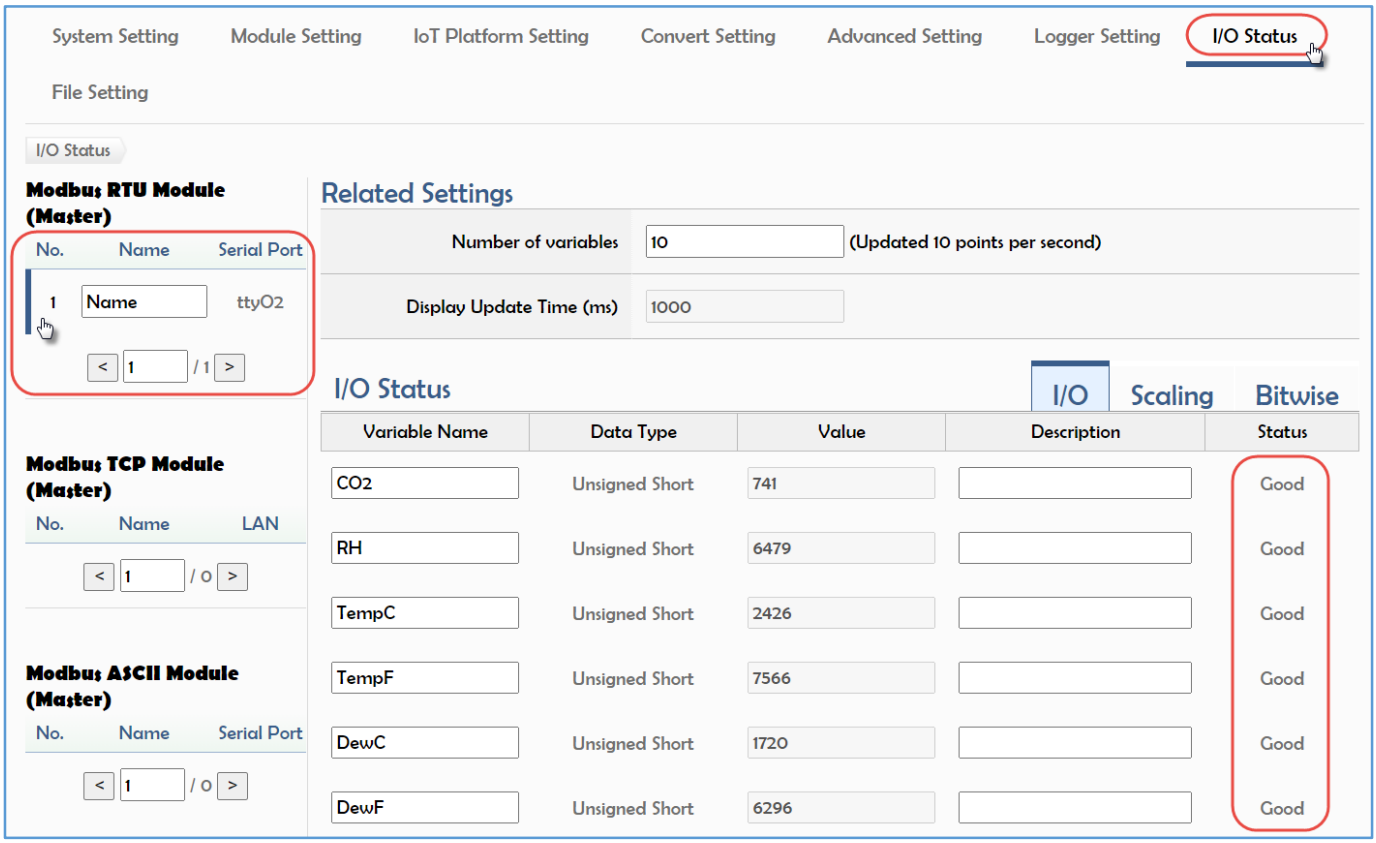
Click the next step [Save Project], the Step Box will show an animation as below picture that means the project is saving. When the animation vanished, the project saved completely.



After saving, the project needs to execute. Click the next step [Run the Project].
This step can also via the [System Setting > Controller Service Setting > Run Project] to Stop and Run the project.

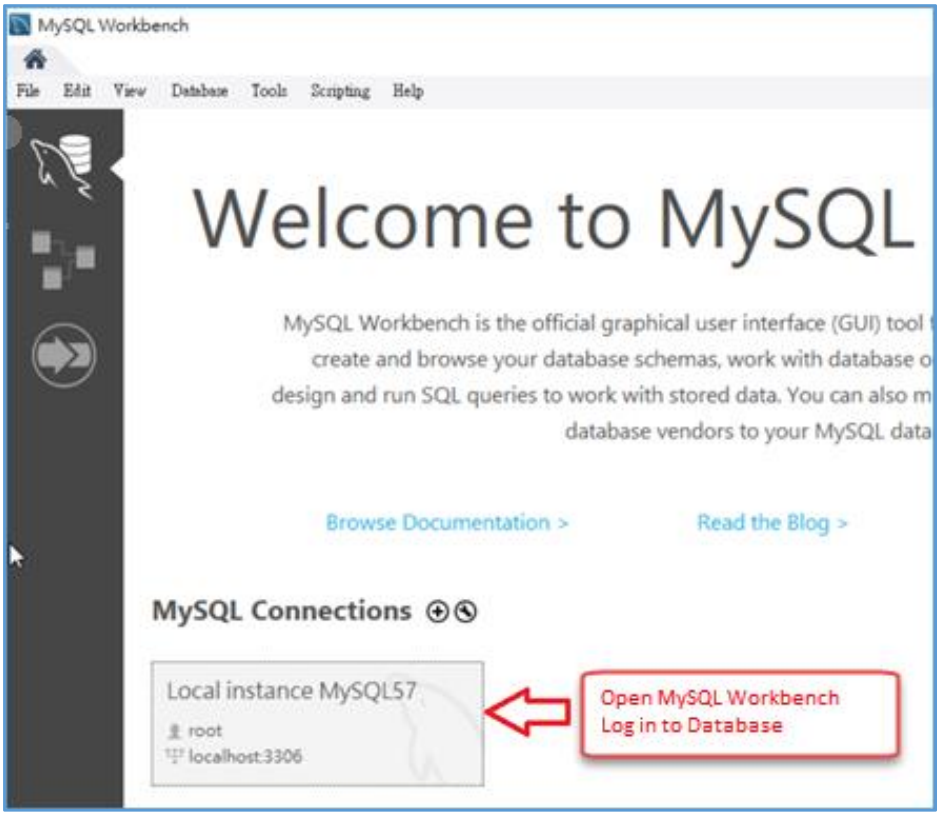


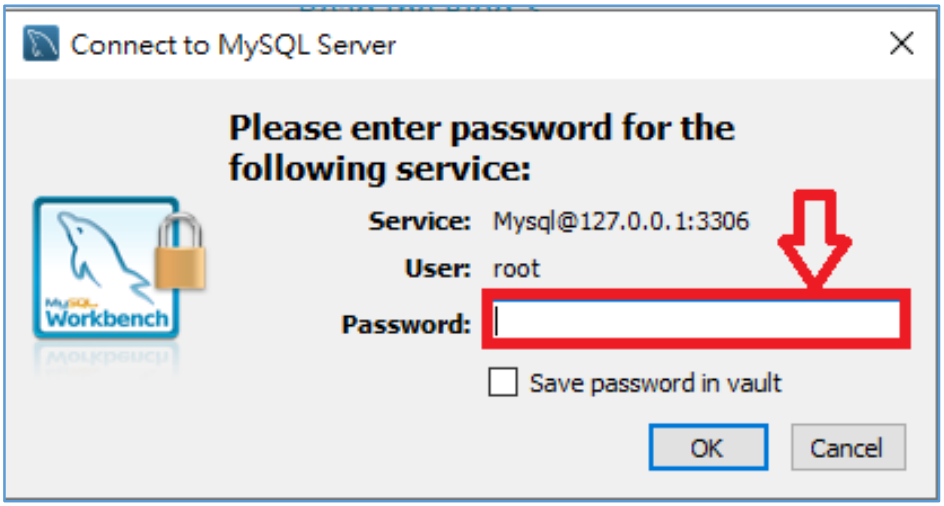
To check the I/O Status, click the "I/O status" and choose from the left-hand list. Confirm the connection value and status.



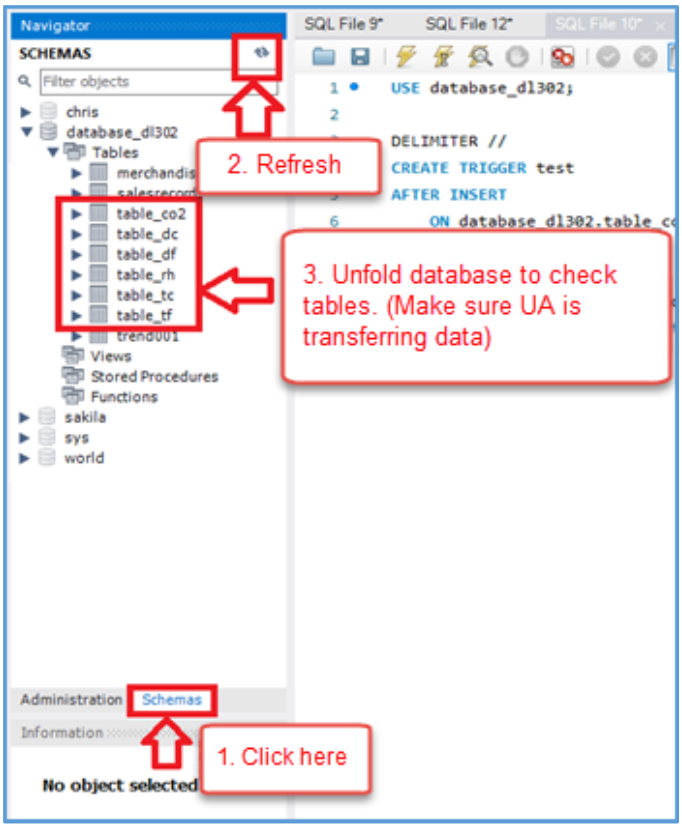
3. After transferring UA data into MySQL, how to combine Date and Time column in the MySQL Server?

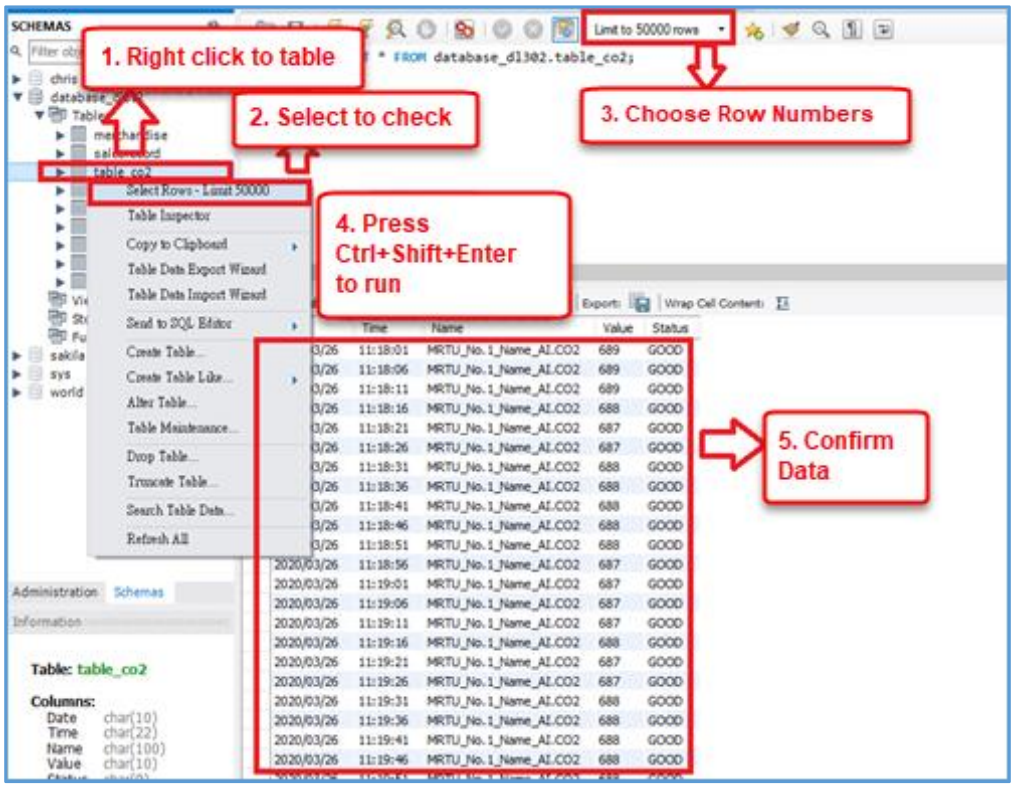
1. Open MySQL Workbench and log in to Database.



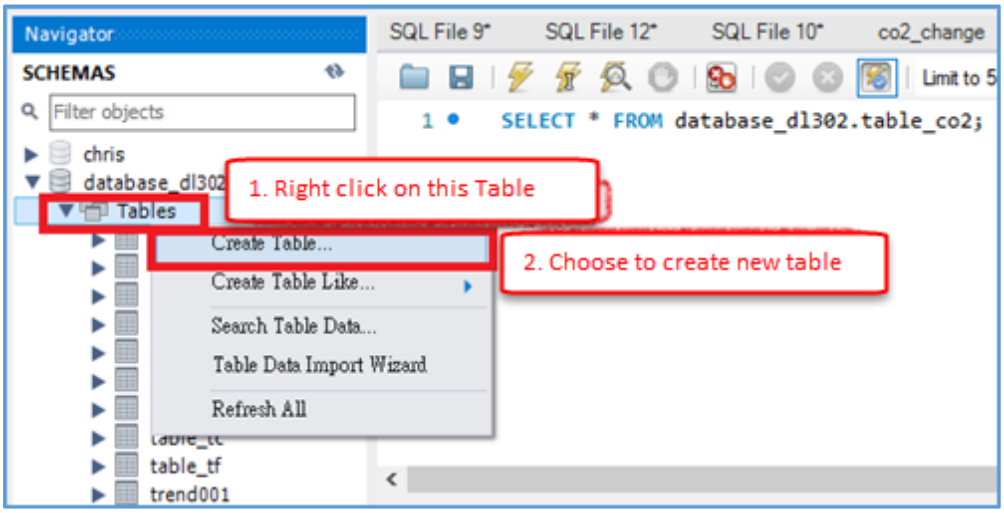


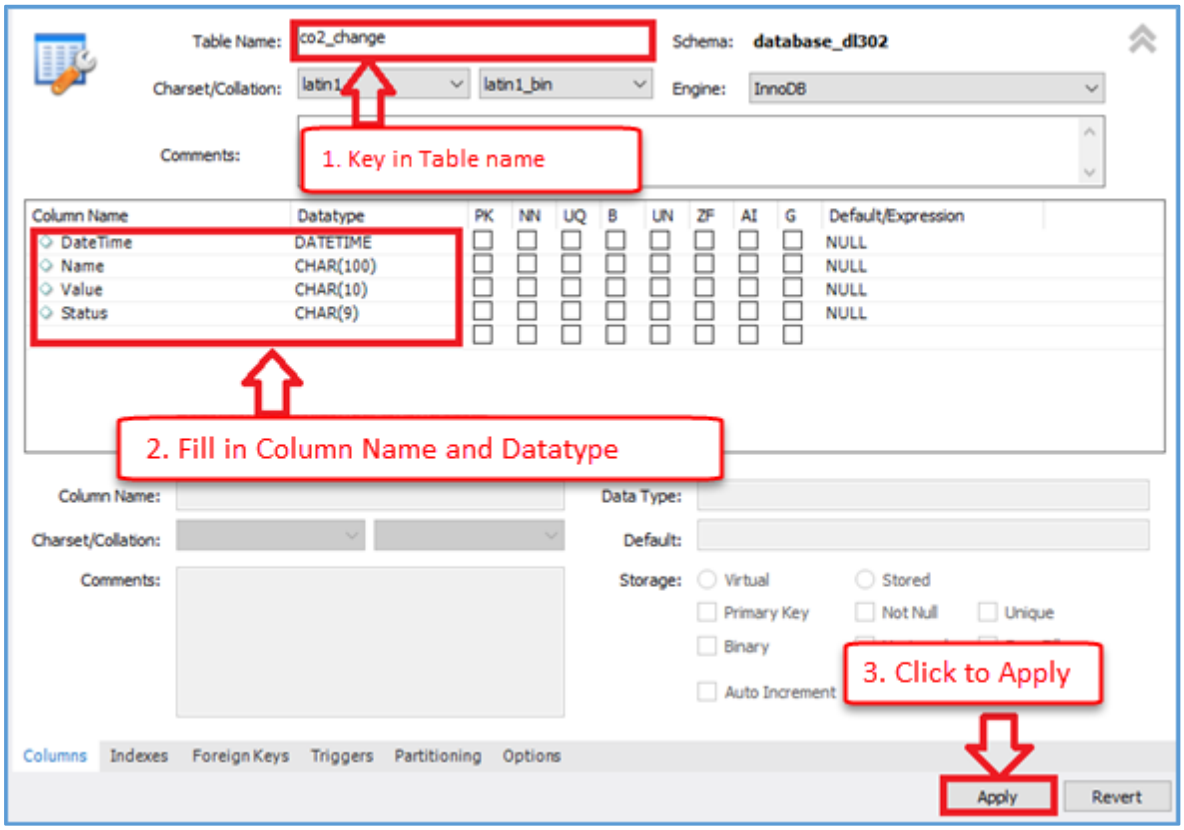
2. After log into Database, confirm if data from DL-302 is successfully show in the Schemas.

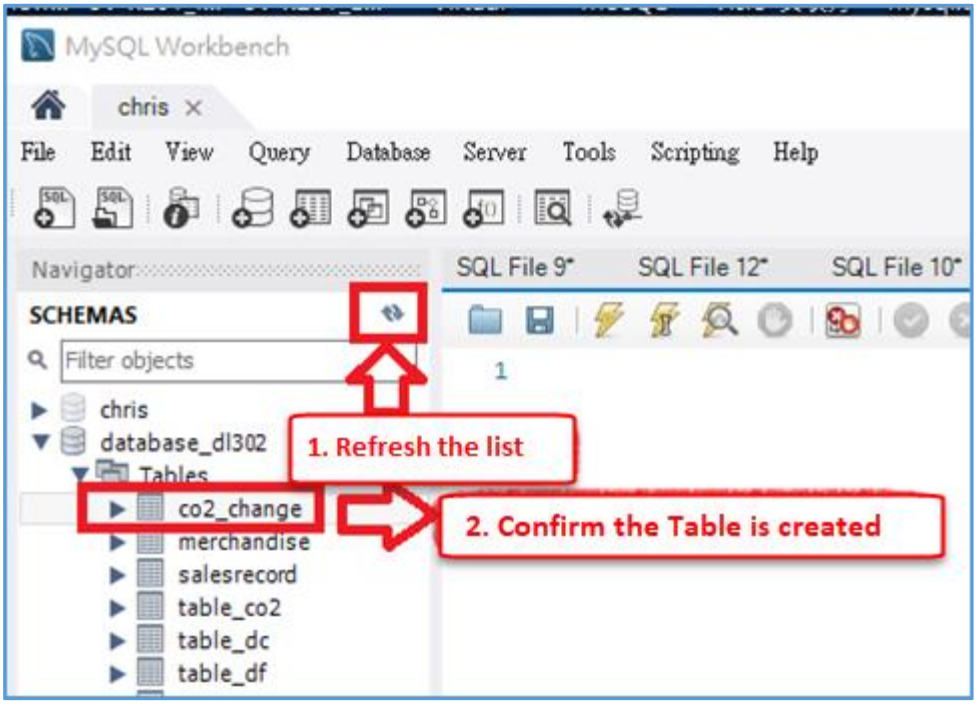


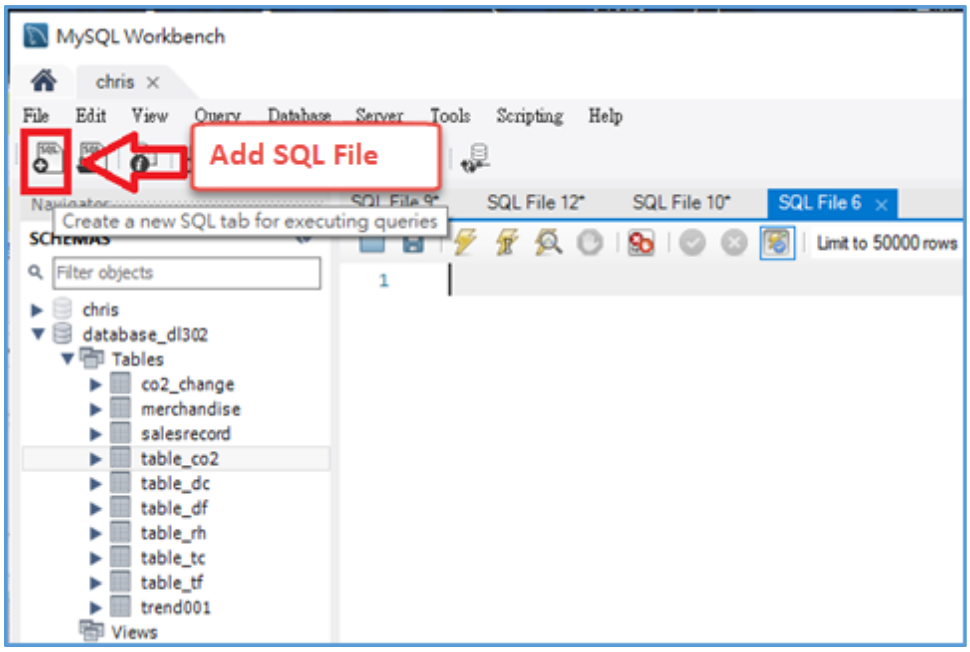


3. Right click to database table that UA transfer data; choose "Create Table" to add a new table. Later we will combine the column in this new Table.






MySQL Workbench
chris
File Edit View Query Database Server Tools Scripting Help
Navigator
SCHEMAS
Filter objects
chris
database_dl302
Tables
co2_change
merchandise
salesrecord
table_co2
table_dc
table_df
SQL File 9*
SQL File 12*
SQL File 10*
1
1. Refresh the list
2. Confirm the Table is created


MySQL Workbench
chris
File Edit View Query Database Server Tools Scripting Help
Add SQL File
Create a new SQL tab for executing queries
SQL File 12*
SQL File 10*
SQL File 6
Limit to 50000 rows
SCHEMAS
Filter objects
chris
database_dl302
Tables
co2_change
merchandise
salesrecord
table_co2
table_dc
table_df
table_rh
table_tc
table_tf
trend001
Views
1

4. Copy & Paste following code into SQL File. Press Ctrl+Shift+Enter to run this code.

```
USE database_dl302;

DELIMITER //
CREATE TRIGGER test
AFTER INSERT
    ON database_dl302.table_co2
    FOR EACH ROW
    BEGIN
        INSERT INTO database_dl302.co2_change (DateTime , Name ,Value ,Status)
        VALUES (concat(new.Date,' ',new.Time) ,new.Name ,new.Value ,new.Status);
    END //
```

Descriptions (Adjustable regarding to different cases)

USE database_dl302; => Name of Database

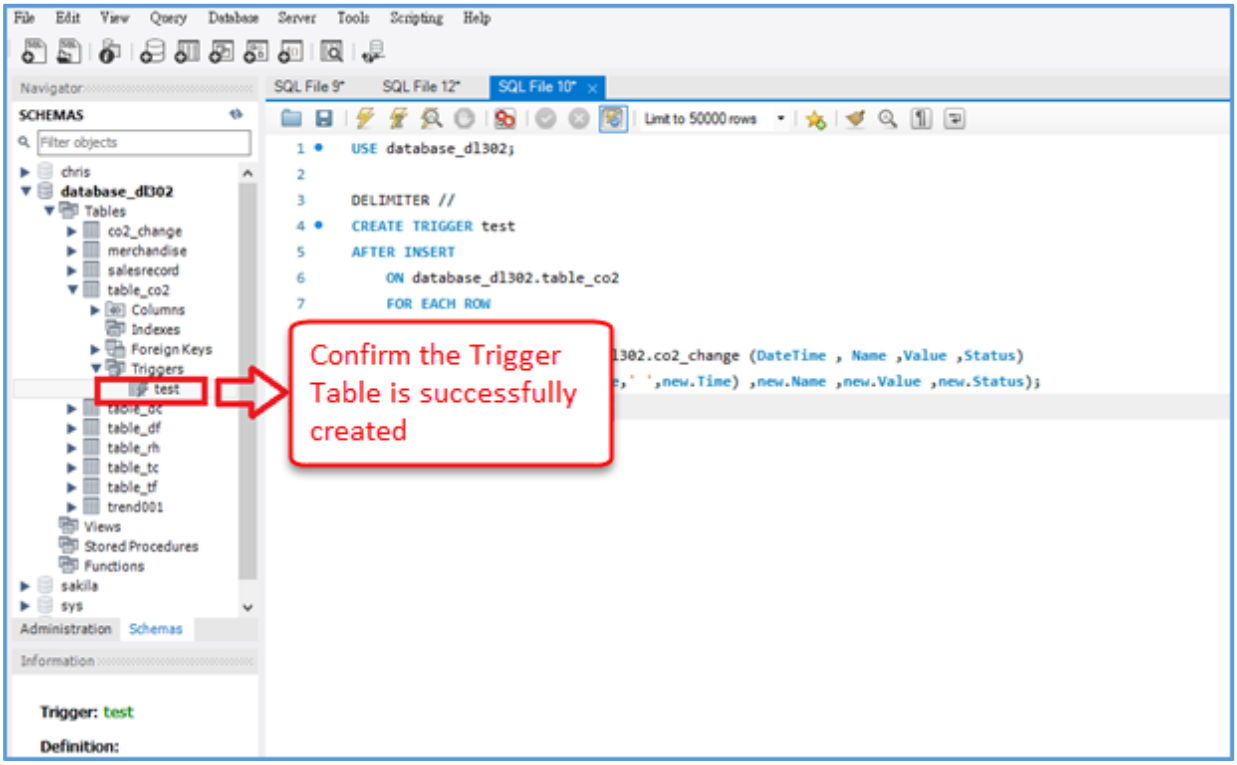
CREATE TRIGGER test => Trigger name created

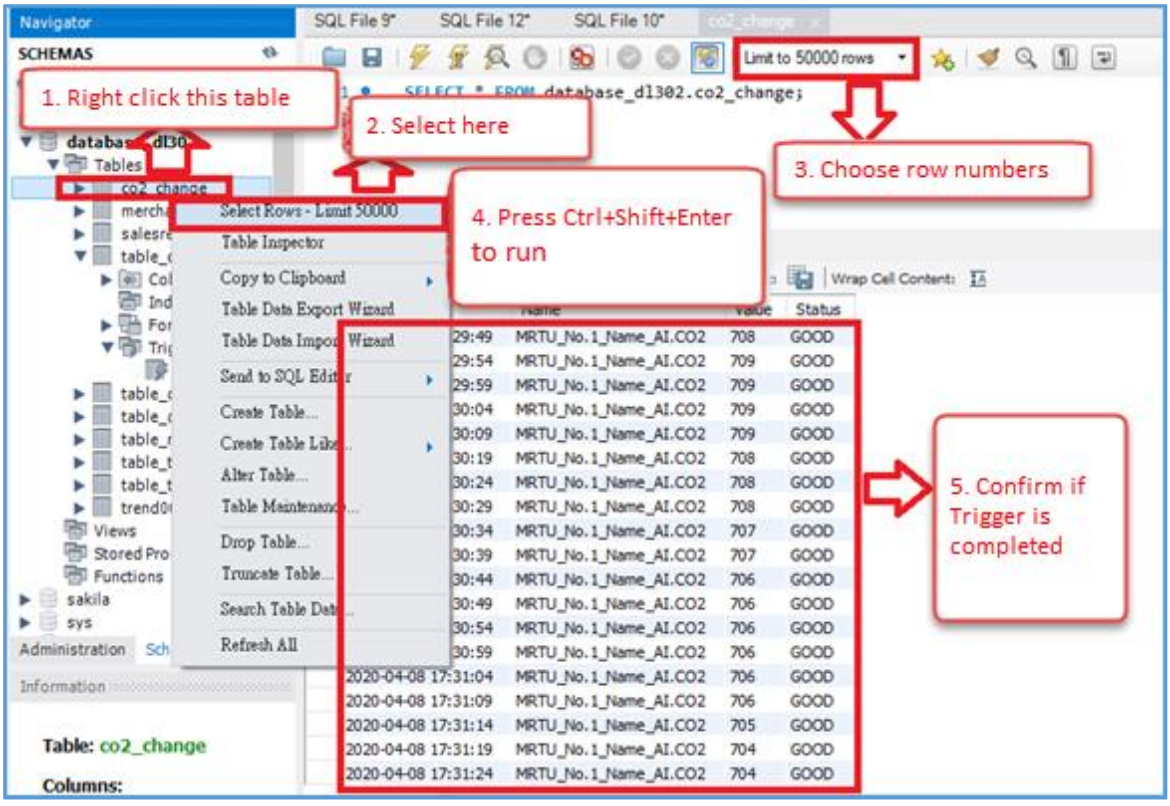
ON database_dl302.table_co2 => Table of trigger

INSERT INTO database_dl302.co2_change (DateTime , Name ,Value ,Status) => datatable and column written into

VALUES (concat(new.Date,' ',new.Time) ,new.Name ,new.Value ,new.Status); While triggered, temporary table transfer data in

5. Unfold Table to confirm the TRIGGER successfully created.





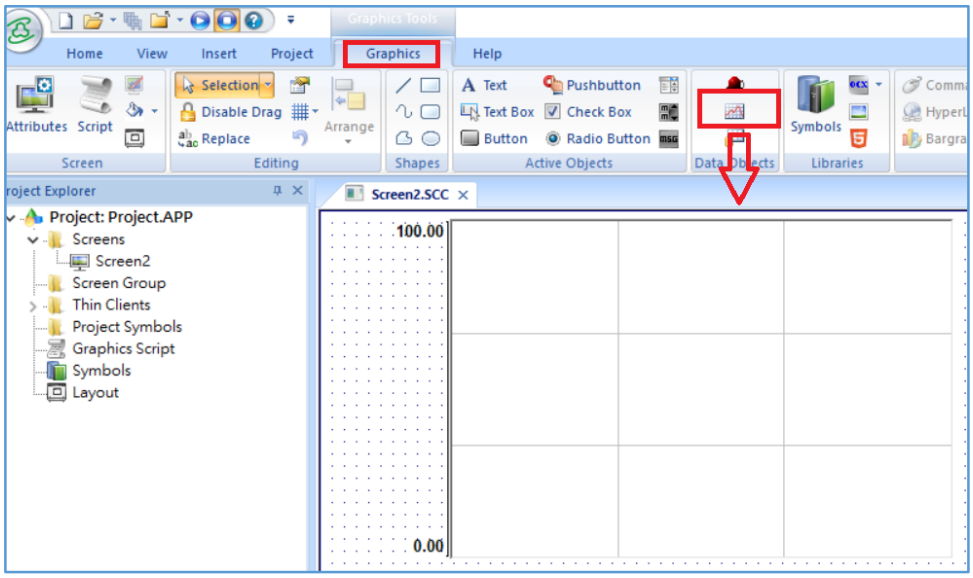
4. How InduSoft read data in SQL?

Before setting InduSoft to read SQL in this section, please make sure that the remote MySQL database access function of InduSoft (IWS) has configured. If it has not configured, please complete it first. You can refer to the appendix in the end of this FAQ to configure.

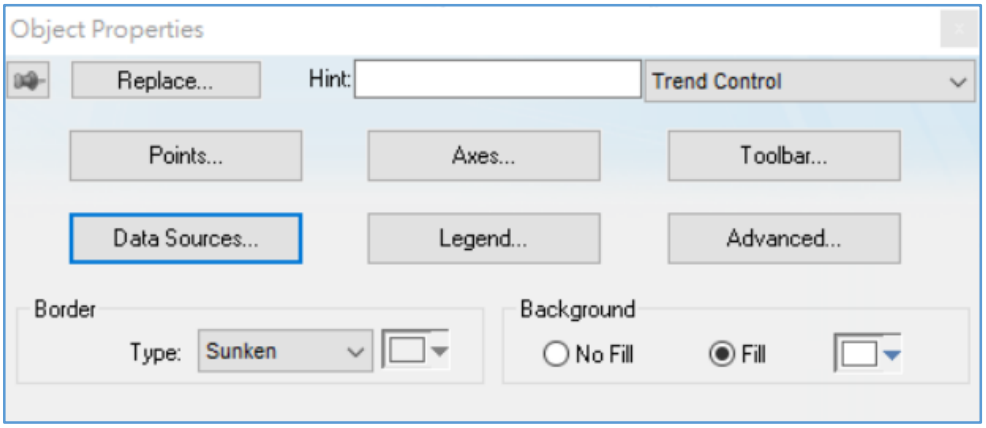
4.1 Appendix: How IWS access remote MySQL database through ODBC

Steps InduSoft to read SQL:

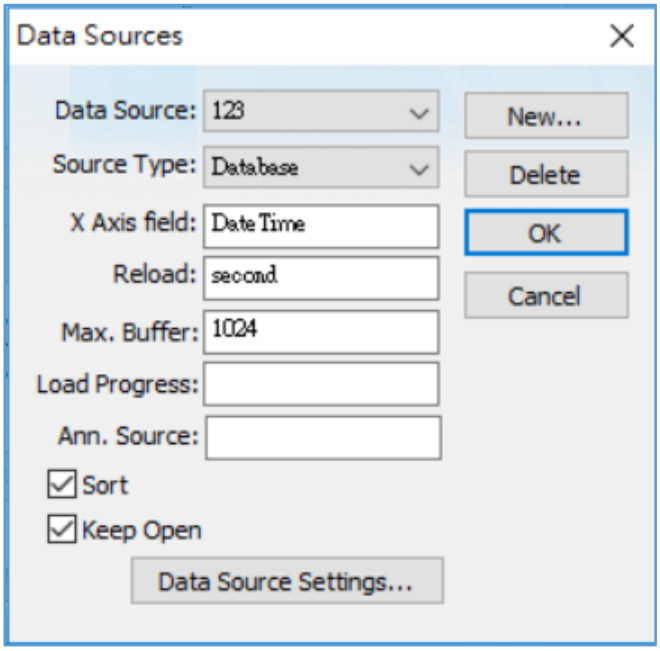
1. After completing the ODBC settings, enter InduSoft and click on the image of the trend graph in Graphics



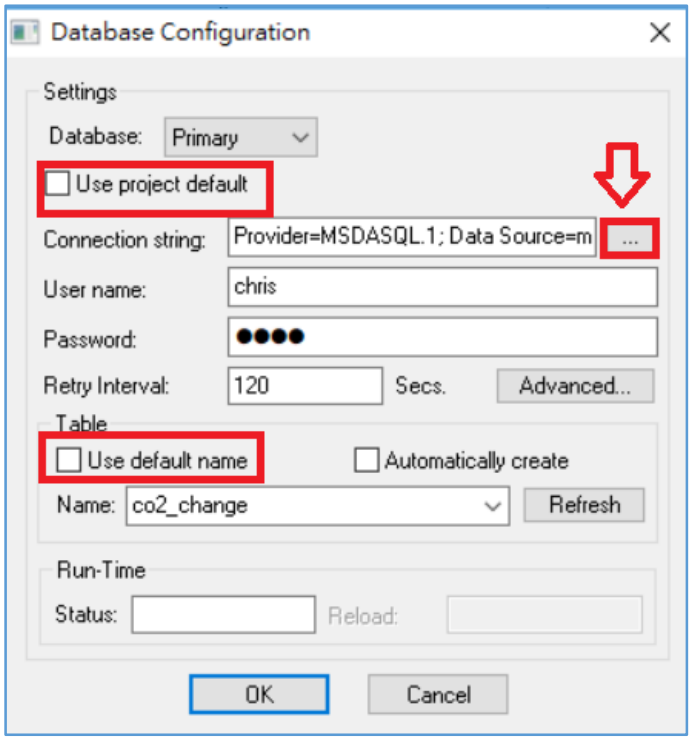
2. Double-click the trend chart to open the object properties window
3. Press [Data Sources], click [New], enter the name, and then press the [Create] button



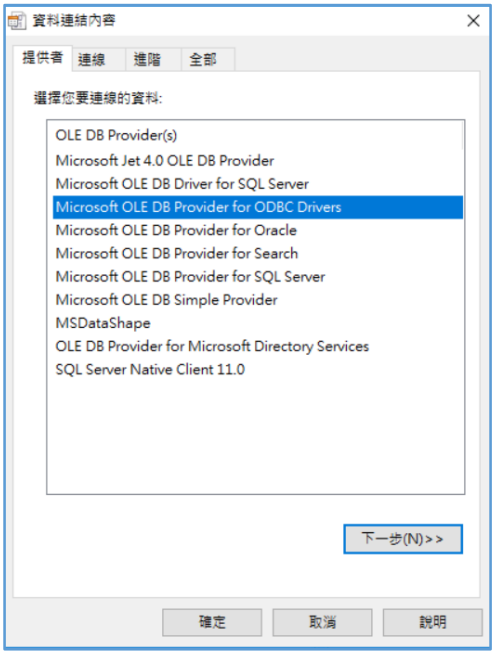
4. Fill the name of the time record in SQL into the blank of X Axis field



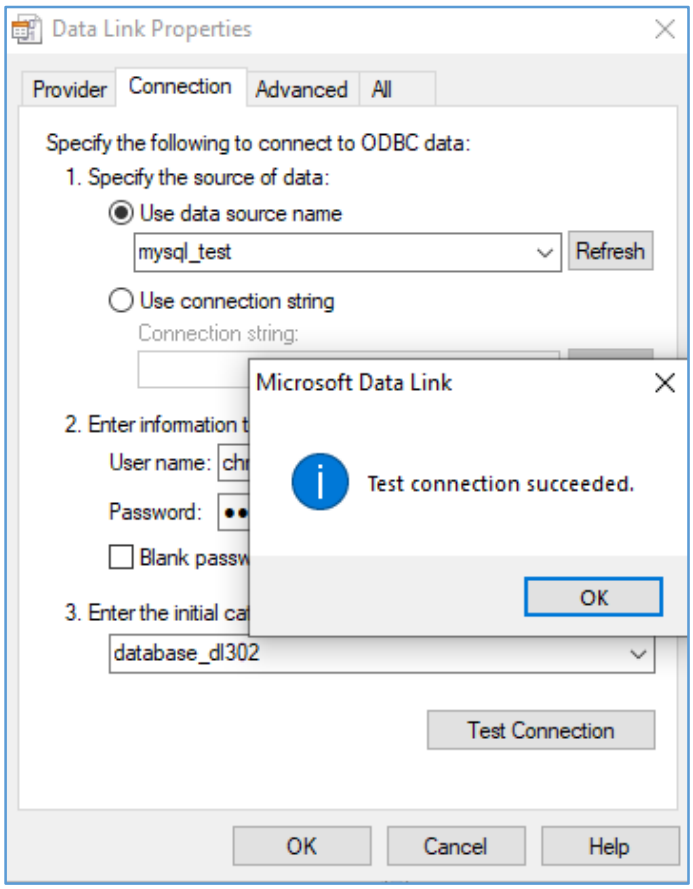
5. Click [Data Source Settings], cancel the checkbox of [Use project default] and [Use default name], and click the ... button



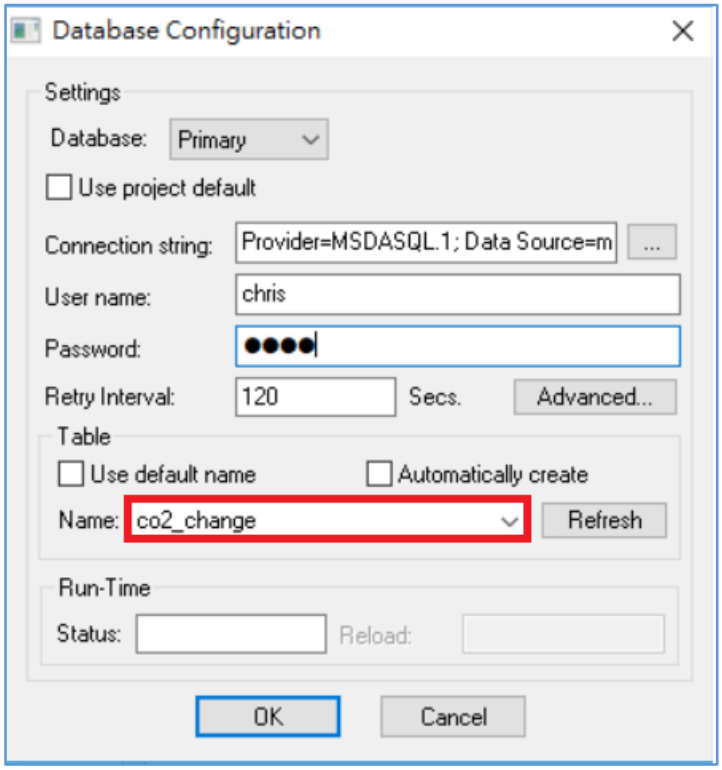
6. After clicking [Microsoft OLE DB Provider for ODBC Drivers], click Next



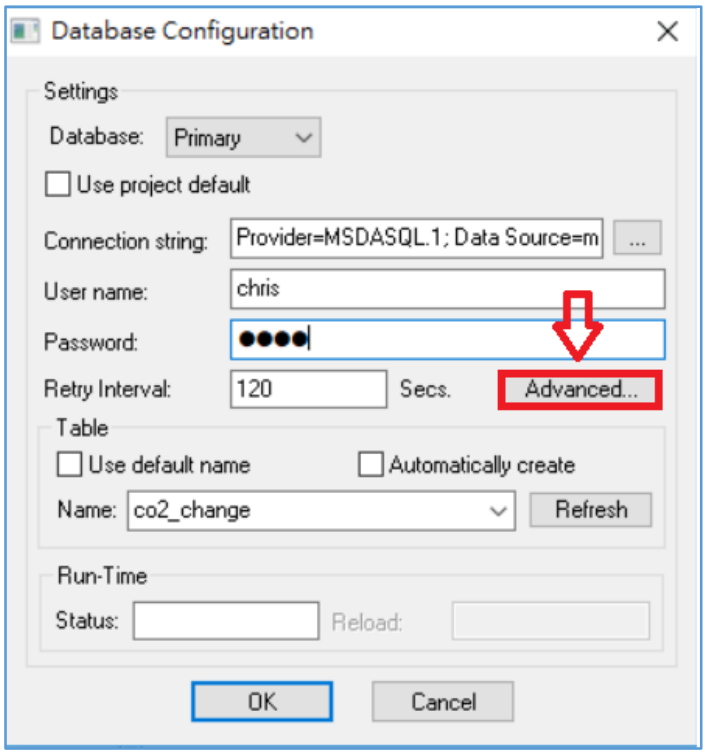
7. Fill in the content of [Connect], after the test connection is successful, click [OK]



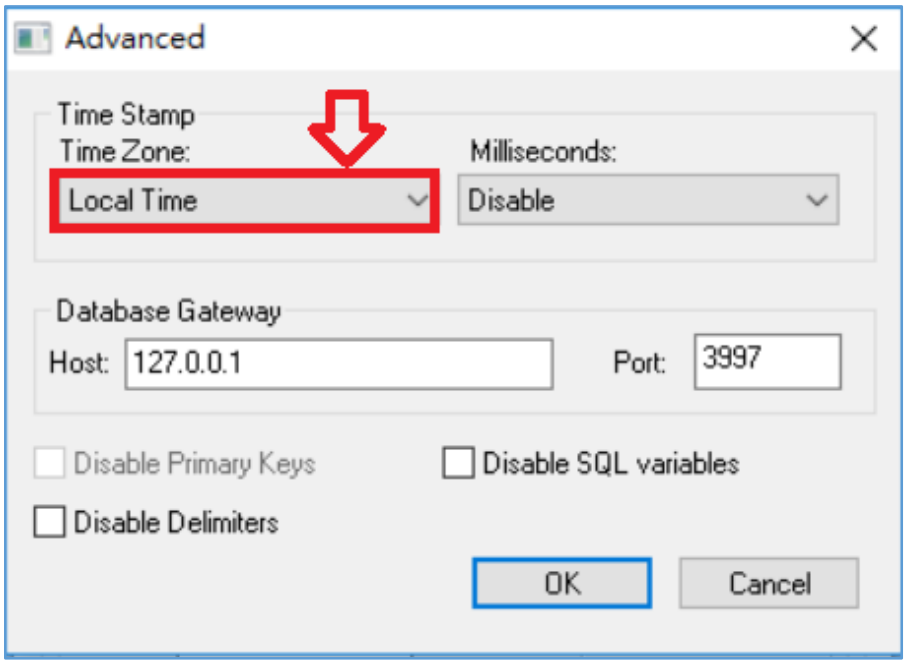
8. After selecting the data table to be read, press [OK]



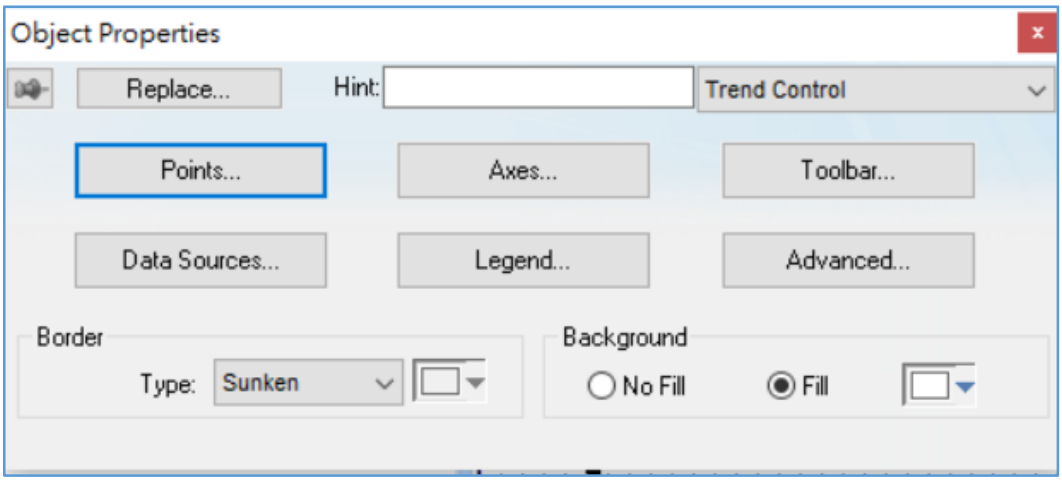
9. Click [Advanced]



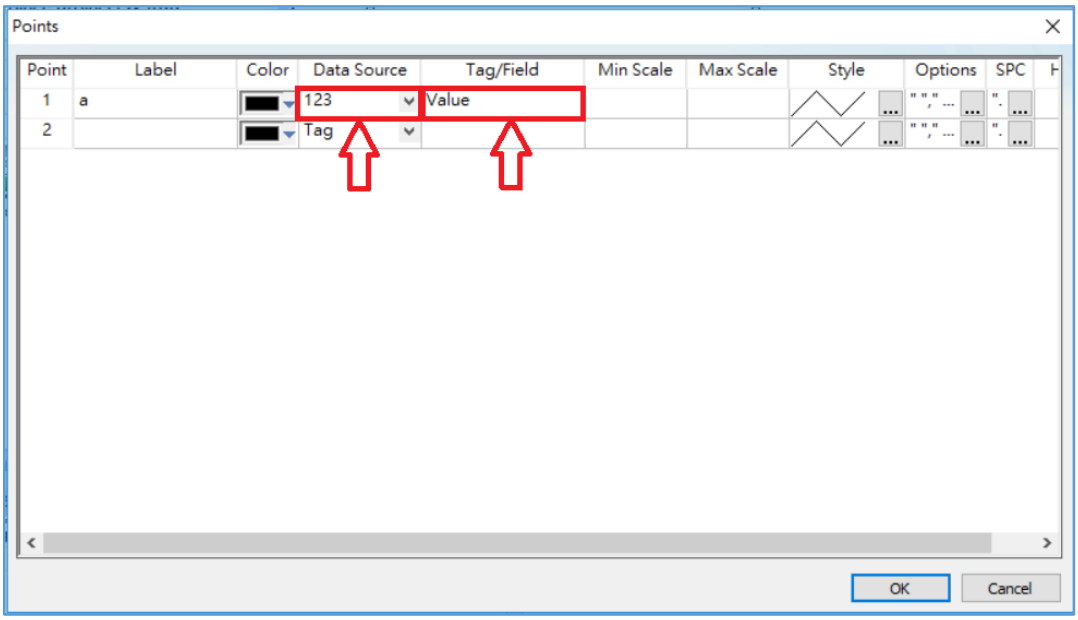
10. Select [Time Zone] option as [Local Time] (choose according to personal situation)



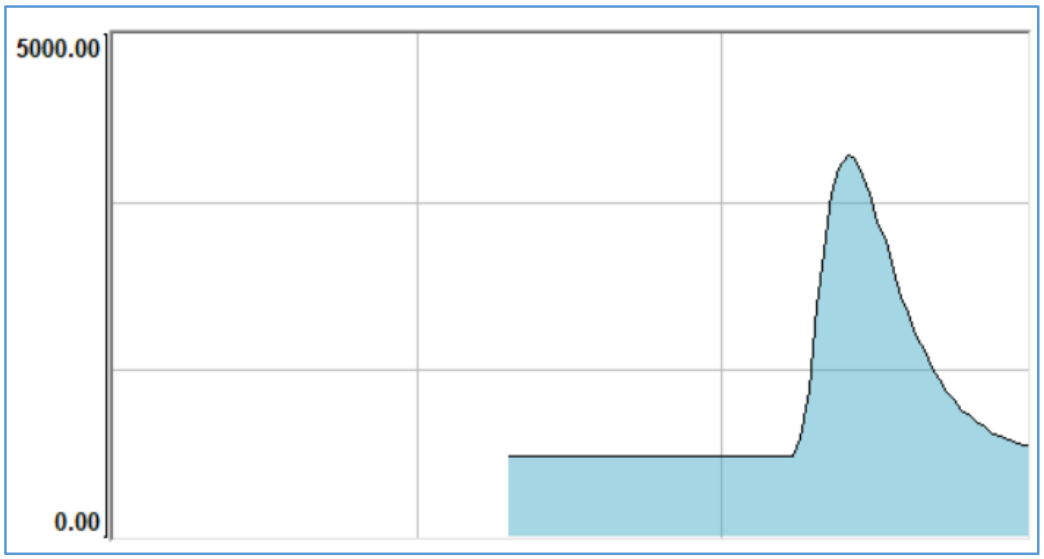
11. Double-click the trend chart to open the object properties window and click [Points]



12. After selecting and filling in the Data Source and Tag/Field to be used, click [OK]



13. Finished!



4.1. Appendix: How IWS access remote MySQL database through ODBC

Step 1：Installation Environment (This example uses following PC Environment)

(1) Server: Install MySQL Workbench

(2) Client: Install ODBC for MySQL

	Server Side	Client Side
OS Version	Windows 8.1 Professional	Windows 7 Professional
MySQL Workbench Version	v6.3.9 (MySQL Installer 5.7.18, x86 32bit) https://dev.mysql.com/downloads/file/?id=470091	N/A
InduSoft Version	N/A	v8.0.2.0
ODBC for MySQL	N/A	V5.3.8 (win32) https://dev.mysql.com/downloads/file/?id=470365

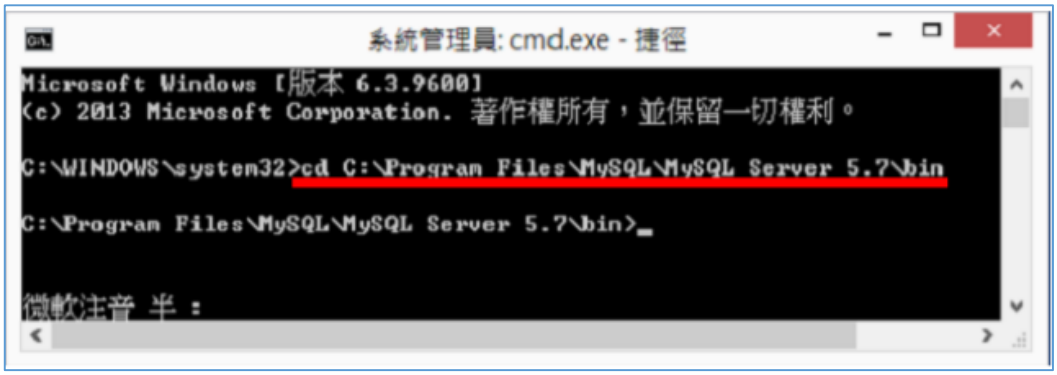
Step 2：Open MySQL Server Remote connection Permission (Server Side)

(1) Execute as Administrator: C:\Windows\system32\cmd.exe

(2) Switch the document to where "MySQL.exe" located

>cd C:\Program Files\MySQL\MySQL Server version\bin

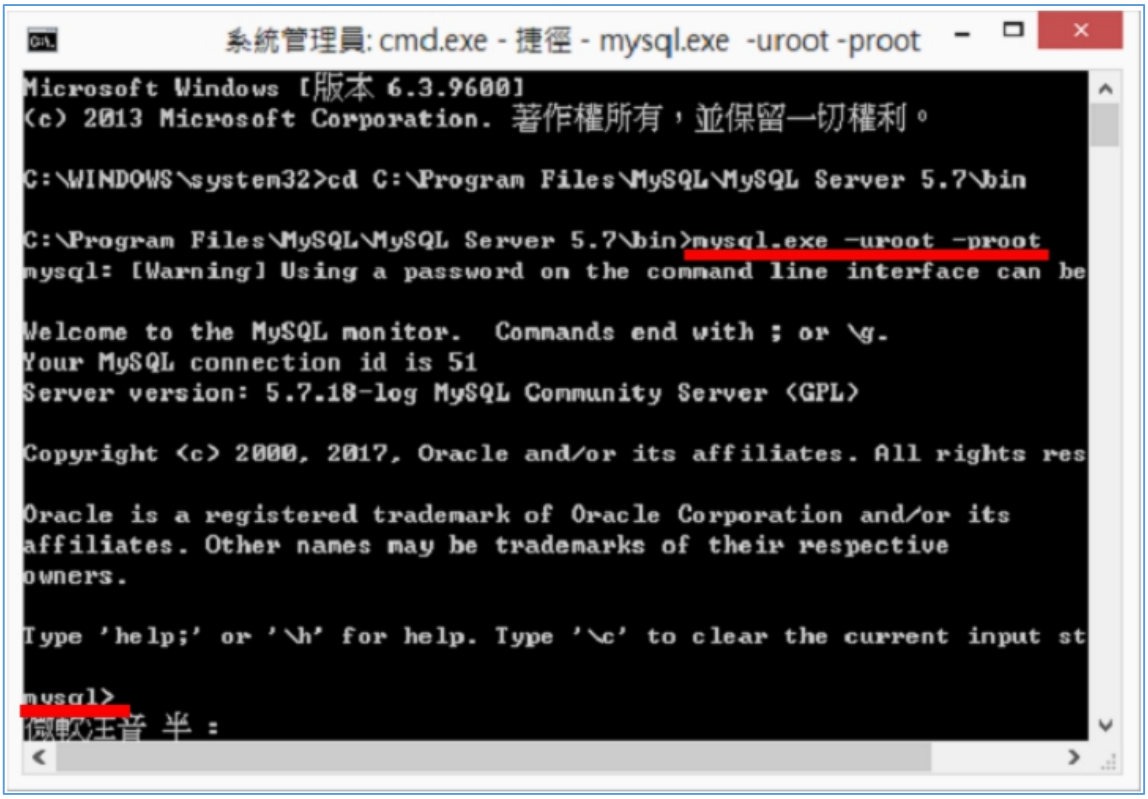
Note: version is the installed version. This example is 5.7



(3) Login MySQL server (The account / password is set during installation)

>mysql -uroot –proot

Remarks: -u account -p password (-u -p followed by account password directly without spaces). After successful login, you will see mysql>



(4) Enter the command to set permissions

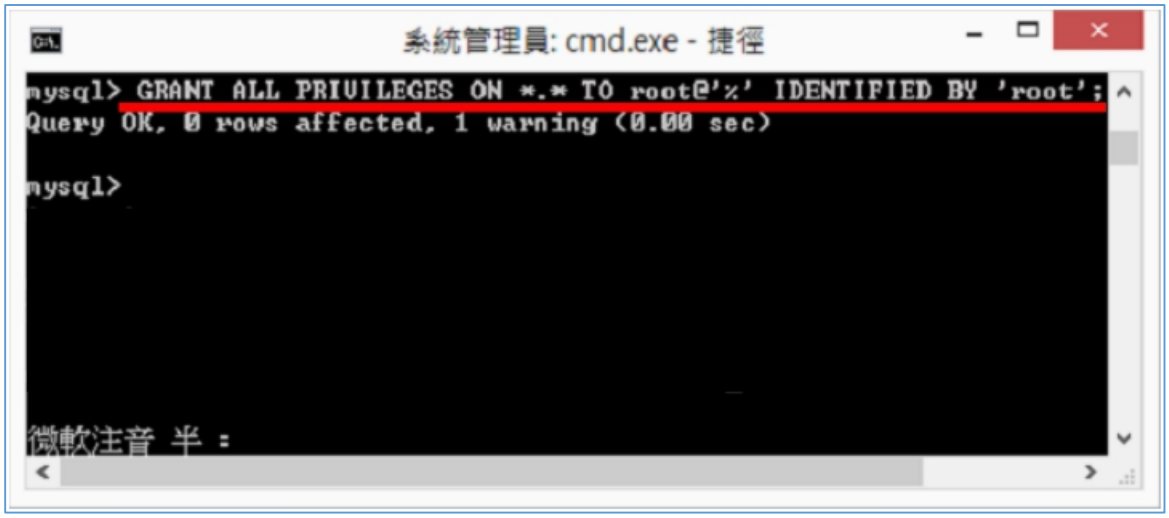
> GRANT ALL PRIVILEGES ON *.* TO USERNAME@IP IDENTIFIED BY PASSWORD;

Remarks: USERNAME is generally the default root; if the IP set to '%', all computers can connect; PASSWORD is the connection password

Example:

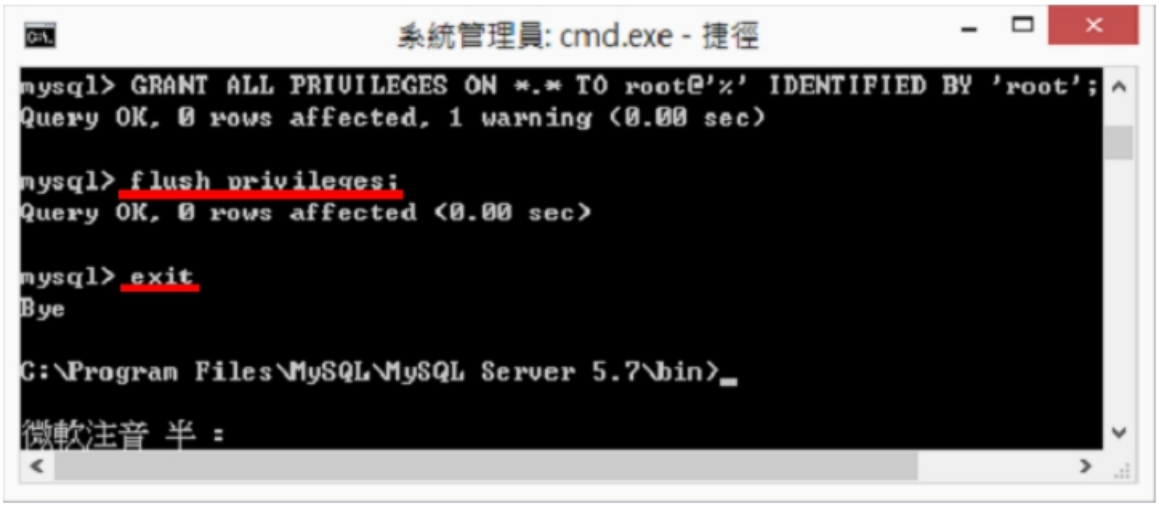
mysql>GRANT ALL PRIVILEGES ON *.* TO root@172.17.20.176 IDENTIFIED BY root;
Allow 172.17.20.176 to log in using account root and password root

mysql>GRANT ALL PRIVILEGES ON *.* TO root@'%' IDENTIFIED BY root;
Allow all computers to log in with account root and password root



(5) Update permission settings and leave MySQL

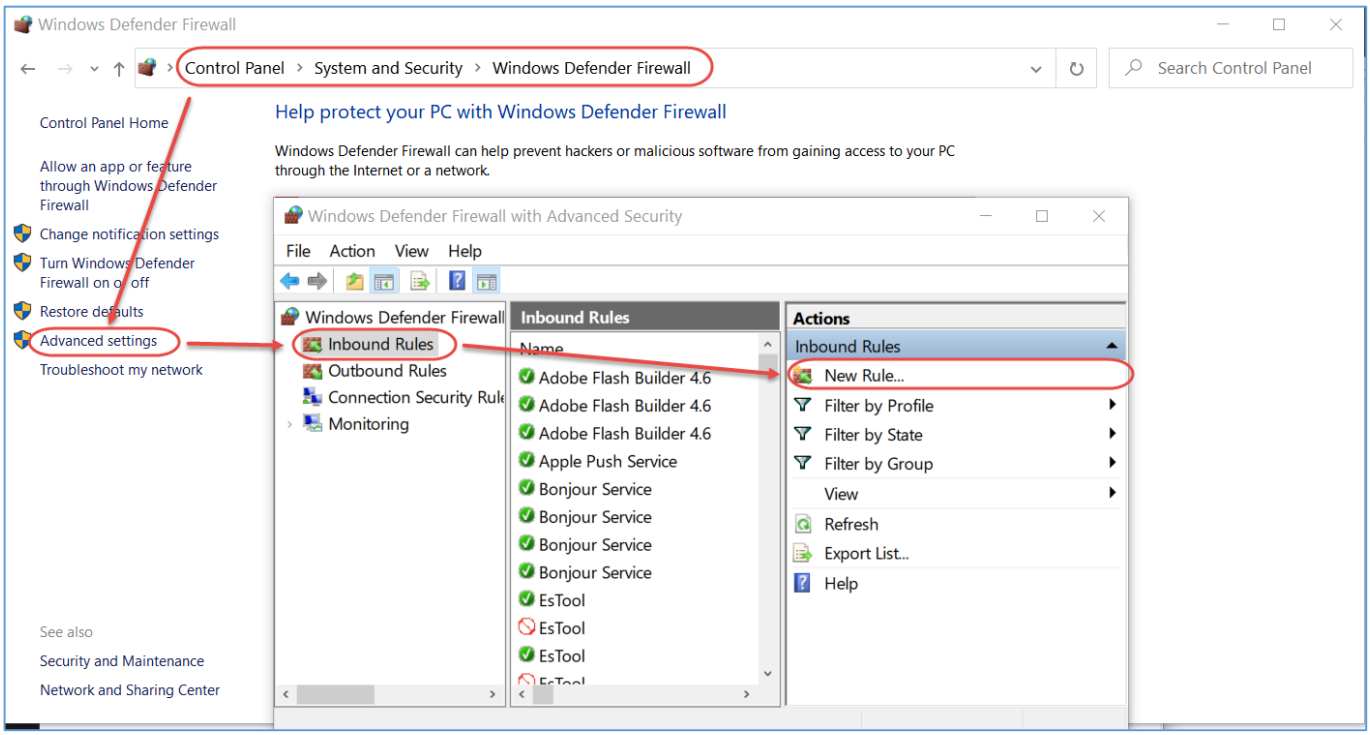
```
mysql>FLUSH PRIVILEGES;
mysql>quit;
```



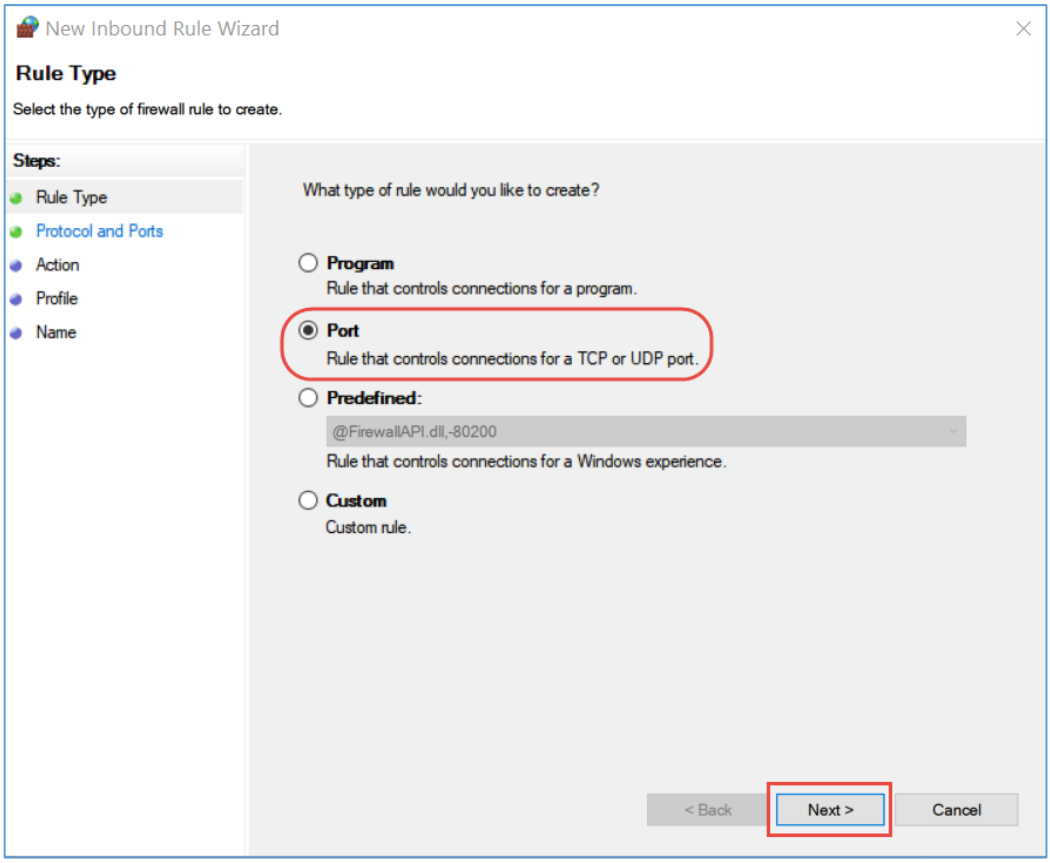
Step 3：Add 〃Inbound Rules〃 in the Windows Defender Firewall (Server)

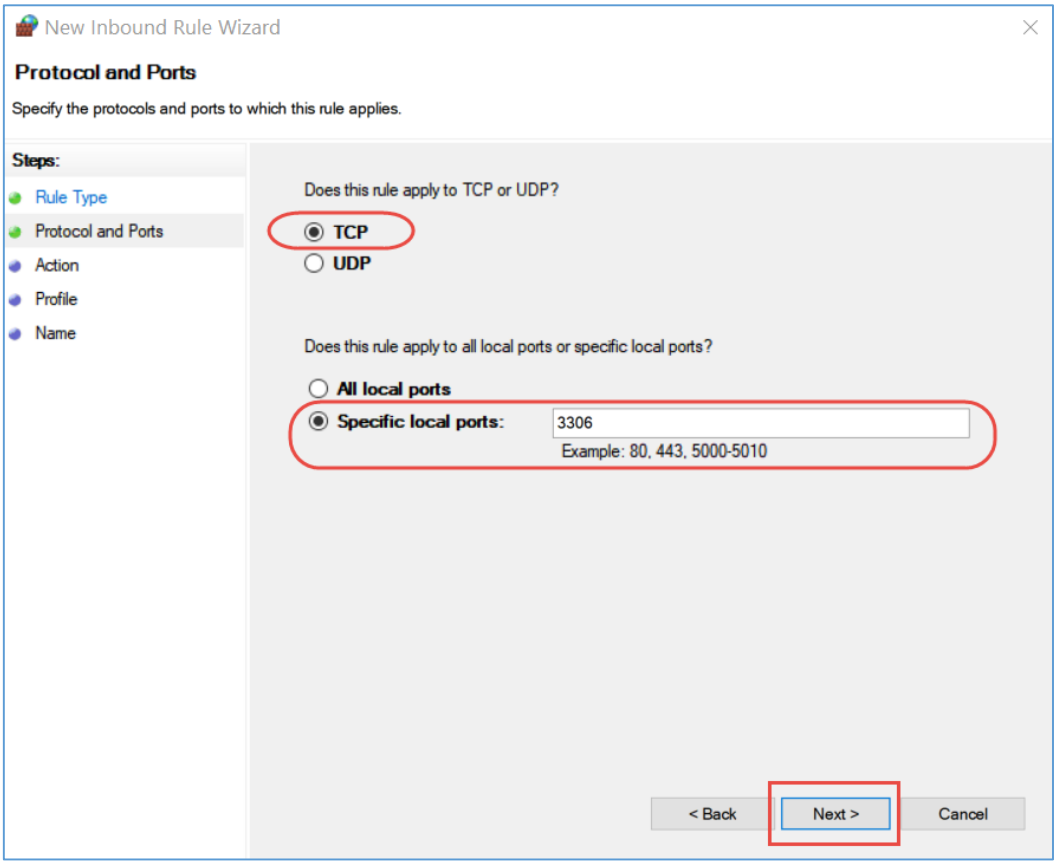
Allow MySQL pass through the firewall Port 3306, so that the remote device can access the MySQL services

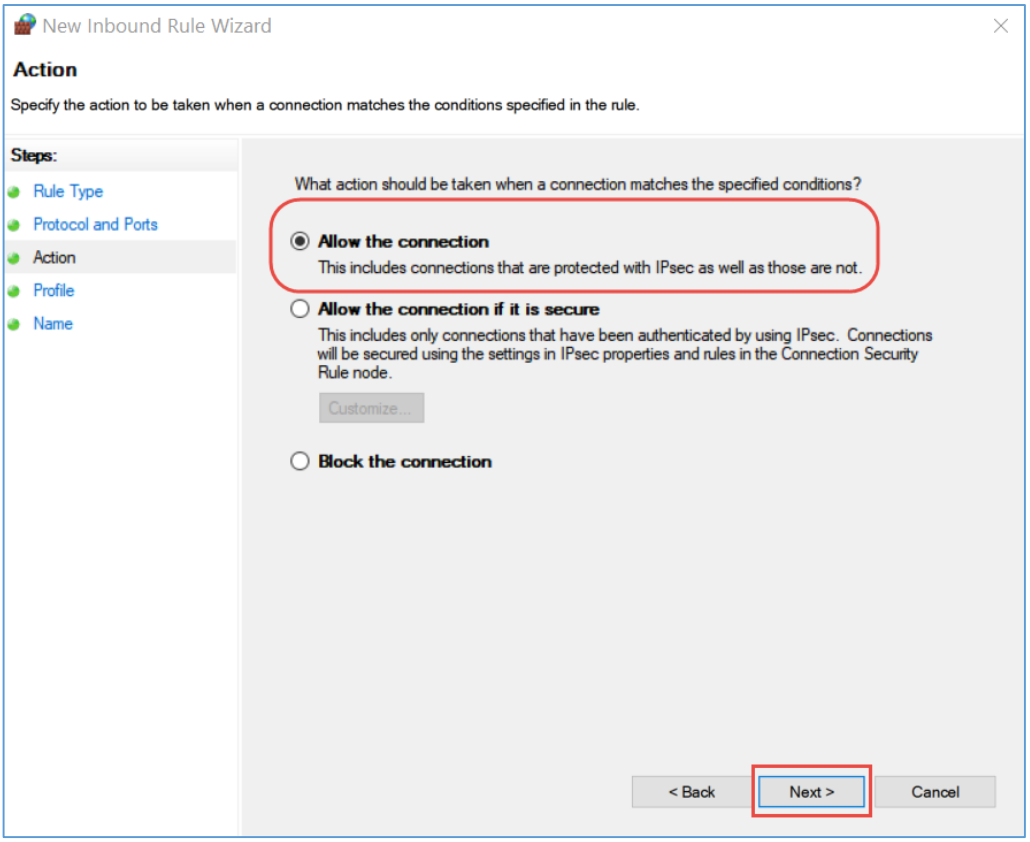
(1) Open 〃Control Panel〃→ Windows Defender Firewall→ Advanced Settings→ Inbound Rules→ New Rule

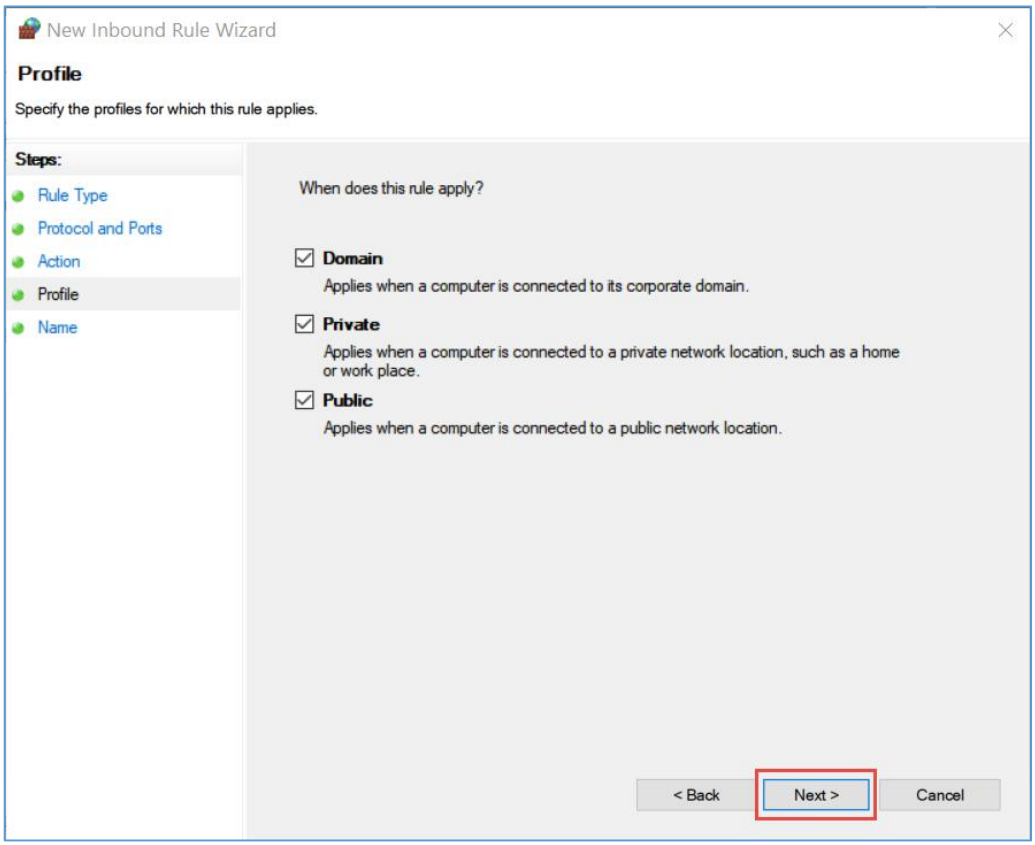


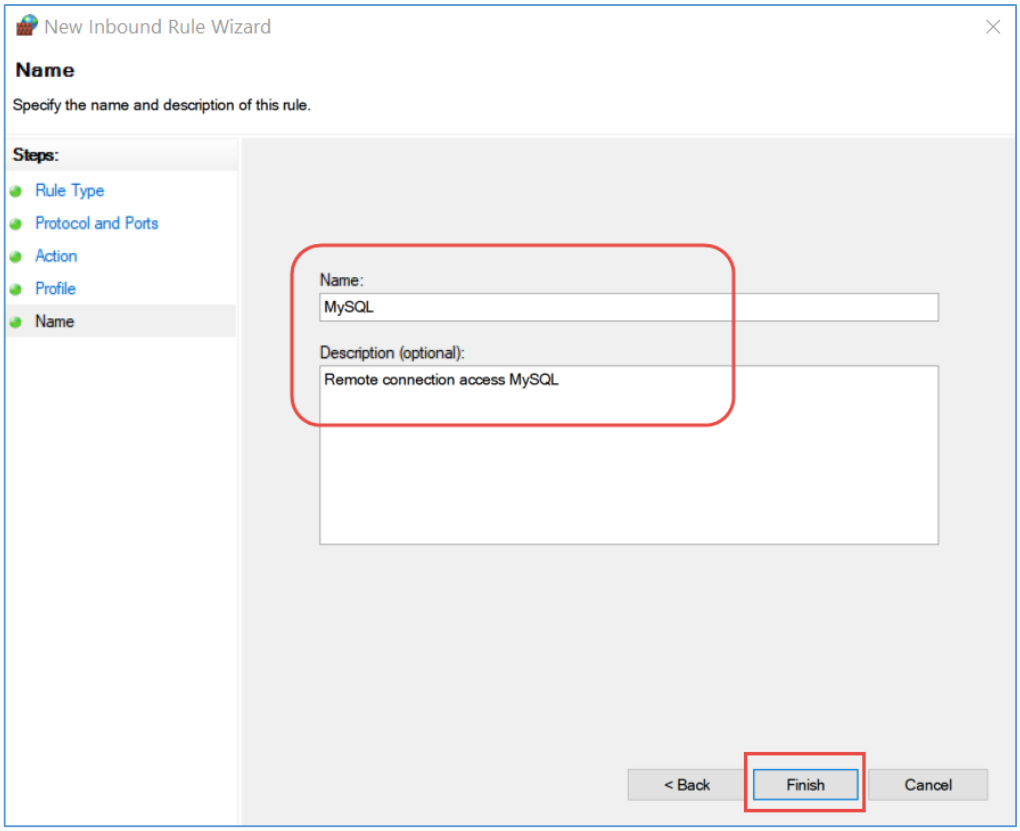
(2) Refer to following settings (Captures)

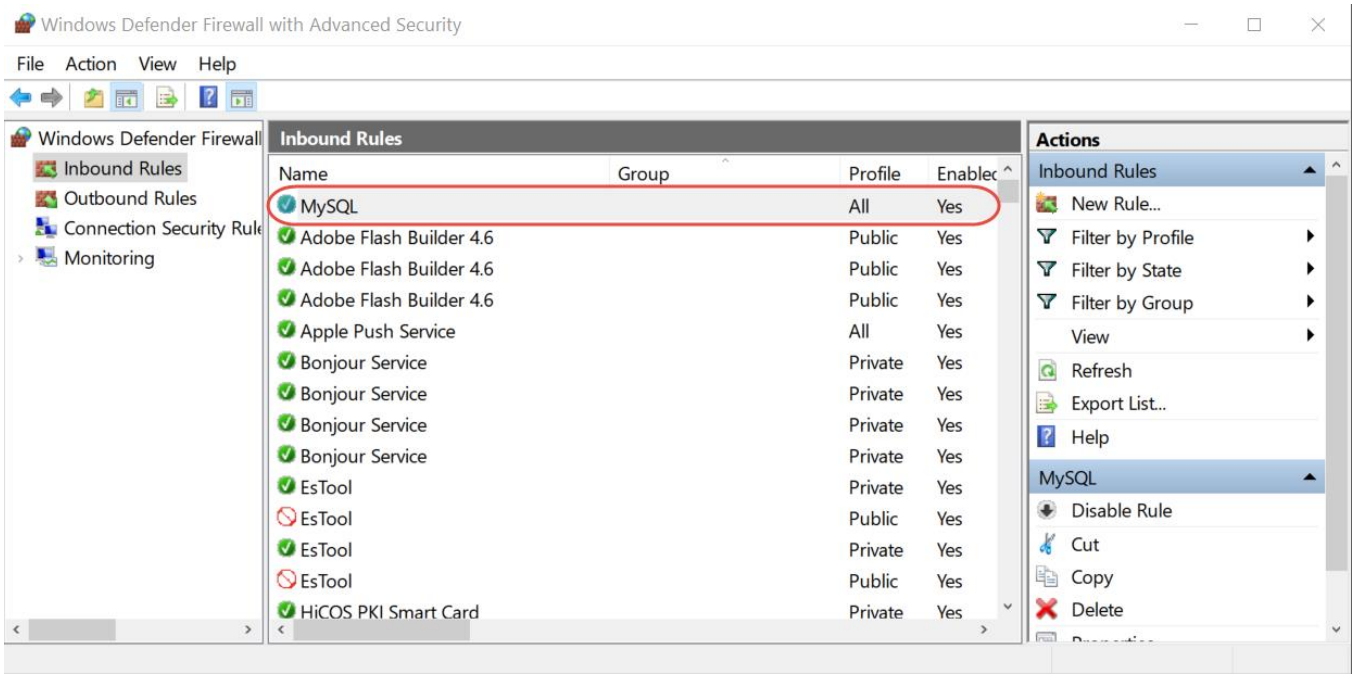

New Inbound Rule Wizard
Rule Type
Select the type of firewall rule to create.
Steps:
Rule Type
Protocol and Ports
Action
Profile
Name
What type of rule would you like to create?
Program
Rule that controls connections for a program.
Port
Rule that controls connections for a TCP or UDP port.
Predefined:
@FirewallAPI.dll,-80200
Rule that controls connections for a Windows experience.
Custom
Custom rule.
< Back
Next >
Cancel


New Inbound Rule Wizard
Protocol and Ports
Specify the protocols and ports to which this rule applies.
Steps:
Rule Type
Protocol and Ports
Action
Profile
Name
Does this rule apply to TCP or UDP?
TCP
UDP
Does this rule apply to all local ports or specific local ports?
All local ports
Specific local ports:
3306
Example: 80, 443, 5000-5010
< Back
Next >
Cancel


New Inbound Rule Wizard
Action
Specify the action to be taken when a connection matches the conditions specified in the rule.
Steps:
Rule Type
Protocol and Ports
Action
Profile
Name
What action should be taken when a connection matches the specified conditions?
Allow the connection
This includes connections that are protected with IPsec as well as those are not.
Allow the connection if it is secure
This includes only connections that have been authenticated by using IPsec. Connections will be secured using the settings in IPsec properties and rules in the Connection Security Rule node.
Customize...
Block the connection
< Back
Next >
Cancel


New Inbound Rule Wizard
Profile
Specify the profiles for which this rule applies.
Steps:
Rule Type
Protocol and Ports
Action
Profile
Name
When does this rule apply?
Domain
Applies when a computer is connected to its corporate domain.
Private
Applies when a computer is connected to a private network location, such as a home or work place.
Public
Applies when a computer is connected to a public network location.
< Back
Next >
Cancel


New Inbound Rule Wizard
Name
Specify the name and description of this rule.
Steps:
Rule Type
Protocol and Ports
Action
Profile
Name
Name:
MySQL
Description (optional):
Remote connection access MySQL
< Back
Finish
Cancel


Windows Defender Firewall with Advanced Security
File Action View Help
Windows Defender Firewall
Inbound Rules
Outbound Rules
Connection Security Rule
Monitoring
Inbound Rules
Name Group Profile Enabled
MySQL All Yes
Adobe Flash Builder 4.6 Public Yes
Adobe Flash Builder 4.6 Public Yes
Adobe Flash Builder 4.6 Public Yes
Apple Push Service All Yes
Bonjour Service Private Yes
Bonjour Service Private Yes
Bonjour Service Private Yes
Bonjour Service Private Yes
EsTool Private Yes
EsTool Public Yes
EsTool Private Yes
EsTool Public Yes
HiCOS PKI Smart Card Private Yes
Actions
Inbound Rules
New Rule...
Filter by Profile
Filter by State
Filter by Group
View
Refresh
Export List...
Help
MySQL
Disable Rule
Cut
Copy
Delete

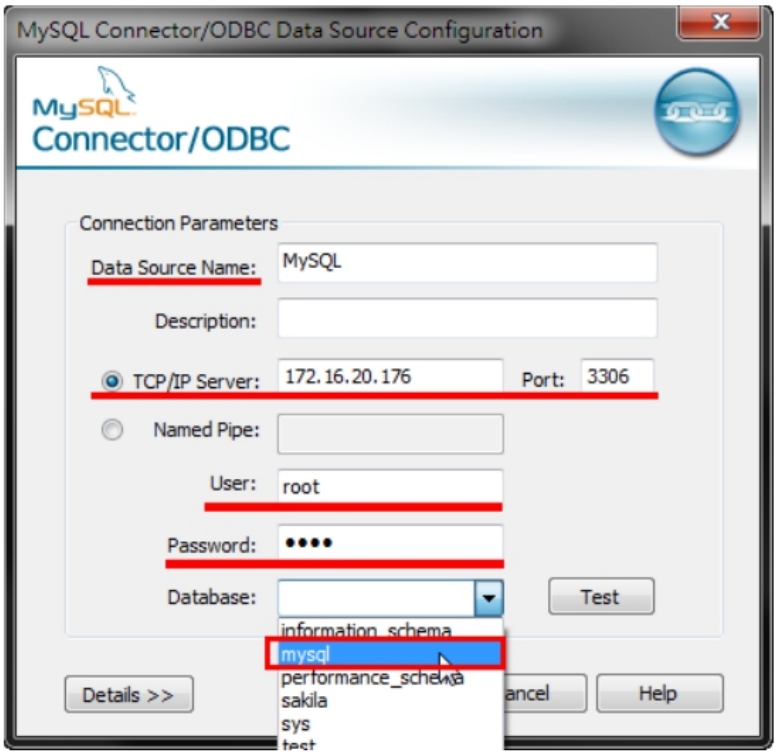
Step 4：Set up ODBC Connections (Client)

(1) Execute as Administrator: C:\Windows\SysWOW64\odbcad32.exe➔ Add

Select File resource:

(2) Set the connection name (used by IWS) / server IP, Port / login account password / database. Press OK to close when finished

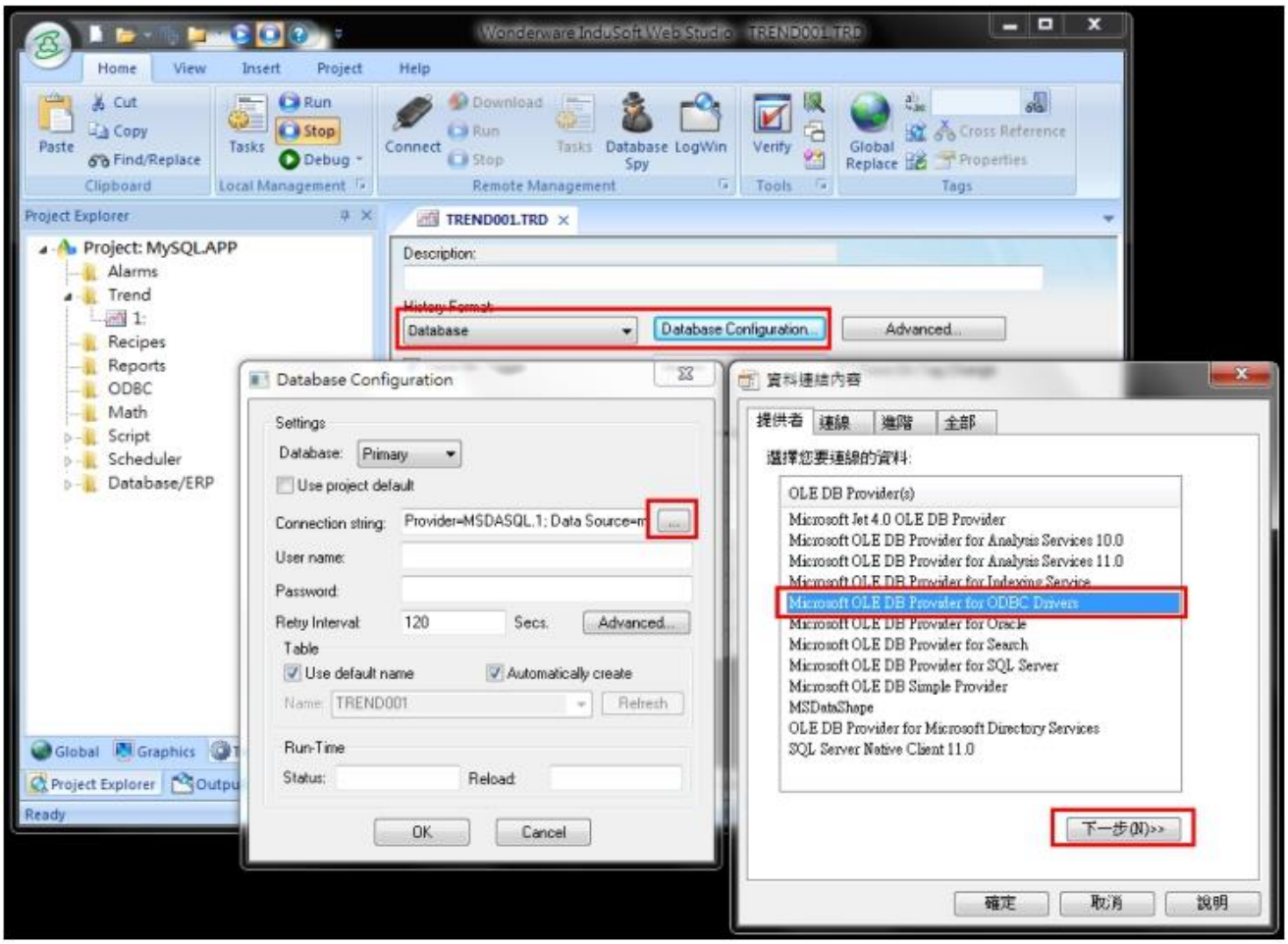
Note: The database (Schema) have to create in advance and can add using the MySQL Workbench management tool.



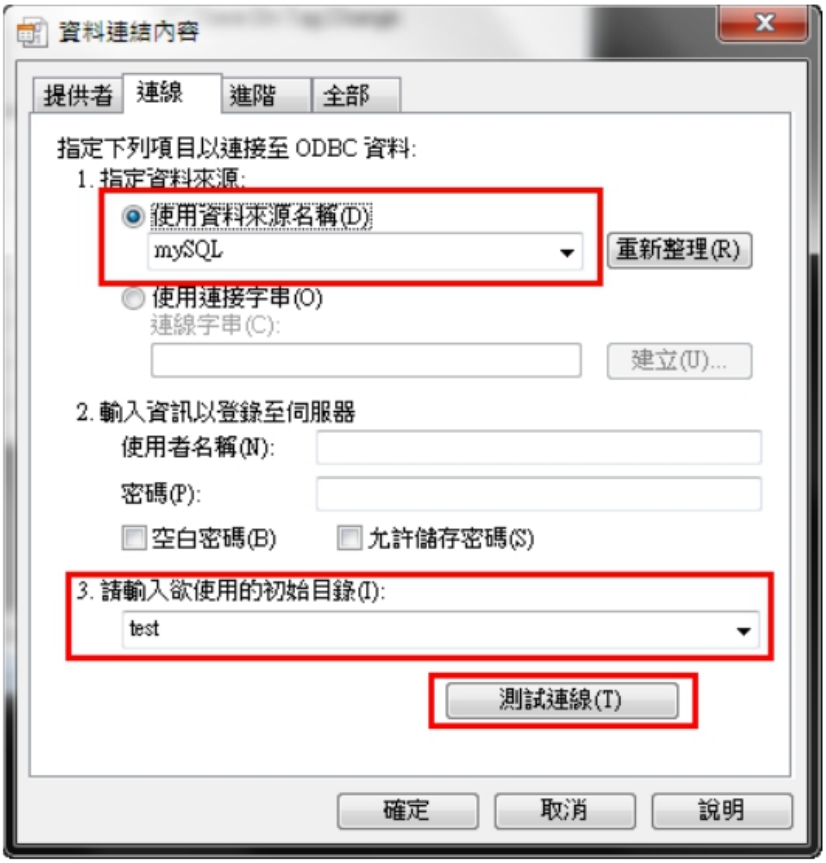
(3) Make sure the ODBC connection established successfully

Step 5：Set up InduSoft database connection (Client)

(1) Take the trend chart form as an example. Under "Provide" Tag, chooses Microsoft OLE DB Provider for ODBC Drivers



(2) Set the data source name (mySQL) → the database to be used (test) →test connection



(3) Successfully connected means to complete the setting.