

ADISRA[®] SmartView

Connecting ADISRA SmartView to MySQL

Document Information

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1. Purpose of this article

This article aims to show you how to download, install and connect MySQL with ADISRA SmartView.

MySQL is a relational database management system developed by MySQL AB. This software is primarily intended to store and retrieve data as required by other software applications that may run on the same computer or on another computer over a network.

2. Downloading MySQL

1. Click on the link below to access the downloads page.

Link: https://dev.mysql.com/downloads/windows/installer/8.0.html

eneral Availability (GA) Releases Archives	•		
MySQL Installer 8.0.28			
elect Operating System: Microsoft Windows	~	Looking fo versions?	r previous GA
Windows (x86, 32-bit), MSI Installer	8.0.28	2.3M	Download
(mysql-installer-web-community-8.0.28.0.msi)		MD5: 514567a7503999d271a20	b86057f15d0 Signature
Windows (x86, 32-bit), MSI Installer	8.0.28	435.7M	Download

2. Then click on the link "No Thanks, just start my download".





3. Installing MySQL

- 1. Run the MySQL installer.
- 2. Select the "Developer Default" installation type.

MySQL Installer MySQL. Installer Adding Community	Choosing a Setup Type Please select the Setup Type that suits yo	— — X
Choosing a Setup Type Check Requirements Installation Product Configuration Installation Complete	Developer Default Installs all products needed for MySQL development purposes. Server only Installs only the MySQL Server product. Client only Installs only the MySQL Client products, without a server. Ful Installs all included MySQL products and features.	Setup Type Description Installs the MySQL Server and the tools required for MySQL application development. This is useful if you intend to develop applications for an existing server. This Setup Type includes: * MySQL Server * MySQL Server * MySQL Servers and InnoDB cluster instances. * MySQL Revuer High availability router daemon for InnoDB cluster setups to be installed on application *
	O Custom Manually select the products that should be installed on the system.	2

3. Select the first option "Connector/Python 8.0.2.8" and click on the "Check" button as shown in the image below.

16	
MySQL Installer	- □ >
MySQL. Installer Adding Community	Check Requirements The following products have failing requirements. MySQL Installer will attempt to resolve
Choosing a Setup Type	them automatically. Requirements marked as manual cannot be resolved automatically. Click on each item to try and resolve it manually.
Check Requirements	For Product Requirement Status
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Product Configuration	
Installation Complete	
	Requirement Details
	This is a manual requirement. You can attempt to resolve the requirement using the information provided. When done, you can press the Check button to see if the requirment has been met.
	Requirement: Python 64-bit (3.6, 3.7, 3.8, 3.9 or 3.10) is not installed
	Download URL: http://www.python.org/download/ Check
	< Back Next > Cancel



4. Then click "OK".



5. If the application fails, click "OK".

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MySQL Installer			– 🗆 X
MySQL. Installer	Check Requireme	nts	
Adding Community	The following products have them automatically. Require on each item to try and reso	e failing requirements. MySQL Installer will ements marked as manual cannot be resol sive it manually.	l attempt to resolve ved automatically. Click
Choosing a Setup Type	,,	,, ,	
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Installation Col MySqL 2 The Installer	requirement is still failing.		
			OK g the
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	Download URL: http://ww	w.python.org/download/	Check
		< Back	Next > Cancel



6. Then click "Yes" and then "Next".



7. Now click on "Next" and wait for the components to be installed.

to SQL Server 2017 Setup			-		×
Install Rules					
Setup rules identify potential p can continue.	problems that might occur while running Setup. Failures must be co	rrected before Setu	Þ		
License Terms	Operation completed. Passed: 3. Failed 0. Warning 1. Skipped	0.			
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Install Rules					
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Feature Rules	Fusion Active Template Library (ATL)	Passed			
Instance Configuration	Consistency validation for SQL Server registry keys	Passed			
Server Configuration	Computer domain controller	Passed			
Database Engine Configuration	🔥 Windows Firewall	Warning			
Consent to install Microsoft R					_
Consent to install Python					
Feature Configuration Rules					
Installation Progress					
Complete					
	<]	Back <u>N</u> ext	>	Cance	I.
	2				



8. Click on "Execute".





10. Click "Next".



11. In the "Config Type" field, select the "Development Computer" option.





12. Select the "User Strong Password Encryption Authentication (RECOMMENDED)" option.



13. The next step is the most important of the installation. Set the password to access MySQL after installation. Then click on "Next".

Attention! This password will be used when connecting to the ADISRA SmartView.

MySQL Installer	– 🗆 X	
MySQL. Installer MySQL Server 8.0.28	Accounts and Roles Root Account Password Enter the password for the root account. Please remember to store this password in a secure	
Type and Networking Authentication Method	MySQL Root Password: Repeat Password:	5
Accounts and Roles	Password strength: Weak	٩,
Windows Service		1.
Apply Configuration	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	
	2	
	< Back Next > Cancel	



14. Click on "Next".





16. Click on "Finish".





18. Click on "Finish".





20. Select the option "MySQL Server 8.0.28" and then put the password previously defined and then click the "Check" button.

	MySQL Installer MySQL. Installer Samples and Examples		Cor	nnect To Serve	r tances	from the	list to receive sample	e schemas a	nd data.		×
20	Connect To Server			Server	Port	Arch	Туре	Status			
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		1	User Pass	name: root sword: •••••••	7		Credentials prov	ided in Serv	er config	juration	

21. After confirming "Connection Succeeded", click on "Next.

MySQL Installer — MySQL: Installer Connect To Server Samples and Examples Select the MySQL server instances from the list to receive sample schemas and data. Connect To Server Port Arch Type Apply Configuration MySQL Server 8.0.28 Provide the credentials that should be used (requires root privileges). Click "Check" to ensure they work. User name: root	MySQL Installer - MySQL. Installer Connect To Server Samples and Examples Select the MySQL server instances from the list to receive sample schemas and data. Connect To Server Port Apply Configuration MySQL Server 8.0.28 Provide the credentials that should be used (requires root privileges). Click "Check" to ensure they work. User name: root Password: ••••••••				-18- 000	
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Apply Configuration Port Port Arch type Status Apply Configuration MySQL Server 8.0.28 3306 X64 Stand-alone Server Connection succeeded. Provide the credentials that should be used (requires root privileges). Click "Check" to ensure they work. Credentials provided in Server configuration	Apply Configuration Server Port Arch type Status Provide the credentials that should be used (requires root privileges). Click "Check" to ensure they work. Credentials provided in Server configuration User name: root Prost Credentials provided in Server configuration	Connect To Service	Select the MySQL server in	stances from th	e list to receive sampl	e schemas and data.
Apply Configuration Provide the credentials that should be used (requires root privileges). Click "Check" to ensure they work. User name: root	Apply Configuration Provide the credentials that should be used (requires root privileges). Click "Check" to ensure they work. User name: root Password: exercence		MySOL Server 8.0.2	2 3306 X64	Stand-alone Server	Connection succeeded
	Password:		Provide the credentials the Click "Check" to ensure th User name: root	it should be use ey work.	d (requires root privile Credentials prov	iges). vided in Server configuration



22. Click on "Execute".



23. Click on "Finish".





24. Click on "Next".



25. Keep only the option "Start MySQL Workbench after Setup" selected and then click on "Finish".

<u></u>			
NySQL Installer		- 0	×
MySQL. Installer Adding Community		Installation Complete The installation procedure has been completed.	
 Choosing a Setup Type	1	Copy Log to Clipboard	
Installation	- 1	Start MySQL Workbench after setup	
Product Configuration		Start MySQL Shell after setup	
Installation Complete		The MySQL Shell is an advanced MySQL client application that can be used to work with single MySQL Server instances. Further, it can be used to create and manage InnoDB Cluster, an integrated solution for high availability and scalability of MySQL databases, without requiring advanced MySQL expertise.	
		MySQL Shell Client App MySQL Router InnoDB Cluster	
		Refer to the following links for documentation, tutorials and examples on MySQL Shell:	
		MySQL Shell Documentation Setting up a Real World Cluster Blog	
		The All New MySQL InnoDB ReplicaSet Blog Changing Cluster Options Live Blog	
		2	
		Einist	h



4. Create the MySQL Database

After installing MySQL, let's create a database and then a table.

1. With MySQL Workbench open, click on the option "Local Instance MySQL80" as shown in the image below.

×
×

2. Then, click on the first line of "Query 1" and enter the command: "CREATE DATABASE DB_ADISRA;" and then click the button *F*.

A Local instance MySQL80 >	× Local instance MySQL80 ×					
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No object selected	T Action Output					
	# Time Action		Message		Duration / F	Fetch
3	1 13:45:38 CREATE DATABASE DB ADI	SRA	1 row(s) affected		0.016 sec	



3. On line 2, enter the command "USER DB_ADISRA;". This command informs that we will use the "DB_ADISRA" database.

Local instance MySQL80 ×	Local instance MySQL80 (db \times			
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	Time Action 1 13:45-38 CREATE DATABASE DR ADISRA	Message 1 mw(e) affected	Duration / Fe	etch
2	2 13:47:59 USE DB ADISRA	0 row(s) affected	0.000 sec	
3	2 134759 USE DB_ADISRA	0 rows) affected	0.000 sec	

4. In the navigation tree, verify that the new database has been created. If not, update the navigation tree.





5. Now, expand the new database and right-click on the item "tables" and then on "Create Table...".

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6. As shown in the image below, enter the table name as "Person" and enter two columns. First column called "idPerson" of type "INT" and another column called "Names" of type "VARCHAR(50) and then click "Apply".

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7. Then click on "Apply".





9. Then expand the item "Tables", right-click the new table "Person" and select the option "Select Rows – Limit 1000".



10. Next, the columns with empty rows will be shown. Fill in the lines as shown in the image below. From now on the MySQL database is active, with the Database "DB_ADISRA" created and a table called "Person" has two columns with some data.





5. Adding DSN in ODBC Data Source

Now we will add a DSN in the Windows ODBC Data Source to prepare the connection to ADISRA SmartView.

 Minimize the MySQL Workbench. In the Windows start menu, search for "ODBC Data Source". Click on ODBC Data Source x64 or x86 bits. It is also possible to access the "ODBC Data Source" configuration via the path (Control Panel -> Administrative Tools -> ODBC Data Sources).

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2. In the ODBC Data Source settings window, click on the "Add..." button to add a new source.

User DSN System DSN File DSN Drivers Tracing Connection Pooling About	- 3
Name Platform Driver Add	
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An ODBC User data source stores information about how to connect to the indicated data provider. A	
User data source is only visible to you, and can only be used on the current machine.	





3. Select the MySQL ODBC 8.0 ANSI Driver option and then click "OK".

Attention! If this option is not available, you will need to install the ODBC Driver.

Download the ODBC driver compatible with your processor (x64 or x86) available from the link below.

Link: https://dev.mysql.com/downloads/connector/odbc/

Windows (x86, 32-bit), MSI Installer 8.0.28 19.9M Download (mysql-connector-odbc-8.0.28-win32.msi) MD5: 02b7d591d2b64eed53111b7009f6d1ac Signat Windows (x86, 32-bit), ZIP Archive 8.0.28 19.9M Download (mysql-connector-odbc-noinstall-8.0.28-win32.zip) MD5: 984ad7b46834fc985225a2f0b6535e20 Signat	(mysql-connector-odbC-8.0.28-win32.msi) MD5: 37536226725744226664344366 Windows (x86, 32-bit), MSI Installer 8.0.28 19.9M (mysql-connector-odbC-8.0.28-win32.msi) MD5: 0257d591d2b64eed53111b7009f6 Windows (x86, 32-bit), ZIP Archive 8.0.28 19.9M (mysql-connector-odbC-noinstall-8.0.28-win32.zip) MD5: 984ad7b46834fc985225a2f0b655 Windows (x86, 64-bit), ZIP Archive 8.0.28 22.2M	Download	22.2M	8.0.28	Windows (x86, 64-bit), MSI Installer
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After installing, go back to the step above. Click the option mentioned in the image above, and then click "Finish".



4. Fill in the fields as shown in the image below. In password, enter the password created earlier. Then click the "Test" button and then the "OK" button.





6. Configuring ADISRA SmartView

After creating the "DB_ADISRA" database and the "Person" table with some data, you will learn how to create an ADISRA SmartView connection with the MySQL Database and how to query the data in the "Person" table through the DataGrid object.

1. Open ADISRA SmartView and create a new application. On the top menu, click on the "Settings" tab and then click on the "Database Connections" option.

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2. Click the "+" button to add a new connectivity.

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3. Select the "Microsoft MySQL" option.

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Data provider: .NET Framework Data Provider for ODB(💌	
Always <u>u</u> se this selection	OK Cancel
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4. Select the option "Use user or system data source name:" and then click on the option "MYSQLDB", in which the DSN was created.

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5. Enter the User name "root" and the password created at the time of installation and click the "Test Connection" button. After reporting successful connection to MySQL database, click OK button.

-		- Login informa	auon
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		<u>P</u> assword:	******
6.	Keep the database	name as "	ODBC001" and click OK.

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7. Create a new Graphic, and insert a "Datagrid" object.

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8. In the property list of the datagrid object, in the "Datagrid Config" property, select the option "Table", "ODBC001" and "Person".

- Datagrid Config — Table							
Connection Item:	ODBC001						
Free Query							
Table Name:	person						
Columns							
Column Name:	idPerson						
Header:	idPerson						
Width:	50						
Is DateTime	?						
Column Name:	names_Person						
Header:	names_Person						
Width:	50						
Is DateTime							

9. Now, save the application and set "Graphic1" as the initial Graphic of the Runtime and then start the Runtime. Below the expected result.

ID	Names	
1	George	1
2	Amelia	
3	John	
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