# MS SQL Server Installation

[SQL Server 2019 step-by-step: Installation - TechNet Articles - United States (English) - TechNet Wiki (microsoft.com)](https://social.technet.microsoft.com/wiki/contents/articles/52734.sql-server-2019-step-by-step-installation.aspx)

# Database setup

Download AdventureWorks2019 sample database from the link below:

[AdventureWorks sample databases - SQL Server | Microsoft Docs](https://docs.microsoft.com/en-us/sql/samples/adventureworks-install-configure?view=sql-server-ver15&tabs=ssms)

## Database Login Setup

Create a new login

Diagram, text

Description automatically generated

Perform a necessary login setup:

Graphical user interface, text, application, email

Description automatically generated

1. Change the new login’s authentication method to “SQL Server and Windows Authentication Mode”

Graphical user interface, text, application

Description automatically generated

1. Grant necessary permissions  
   Table

   Description automatically generated



Graphical user interface, application

Description automatically generated

Create a new user (test\_user\_1) for the Database

A picture containing graphical user interface

Description automatically generated

Restart MSQL Server!

Graphical user interface, application

Description automatically generated

# Pycharm IDE installation and setup

Download it here [Download PyCharm: Python IDE for Professional Developers by JetBrains](https://www.jetbrains.com/pycharm/download/#section=windows)

Setup instructions: [Get started | PyCharm (jetbrains.com)](https://www.jetbrains.com/help/pycharm/quick-start-guide.html#meet)

# Python Virtual Environment creation

[venv — Creation of virtual environments — Python 3.10.4 documentation](https://docs.python.org/3/library/venv.html)

# Install Python packages

Use any of possible ways to install Pycharm plugins and Python libraries:

[Install, uninstall, and upgrade packages | PyCharm (jetbrains.com)](https://www.jetbrains.com/help/pycharm/installing-uninstalling-and-upgrading-packages.html)