

Installation guidelines for training SQL Server and SQL Server Reporting Services

Introduction

All installations can be executed on a Windows PC with admin rights. Alternatively, for the server side of SQL Server you can use an existing server in your network, provided that the sample databases (see below) are installed and available. In that case the trainees need sufficient rights to execute SQL commands (SELECT, INSERT, UPDATE, DELETE) and create and execute stored procedures.

The following installation guidelines mention only the most recent versions but any recent version (e.g. SQL Server >= 2016) is ok.

Please contact Johan Decorte (johan.decorte@gmail.com) in case of questions.

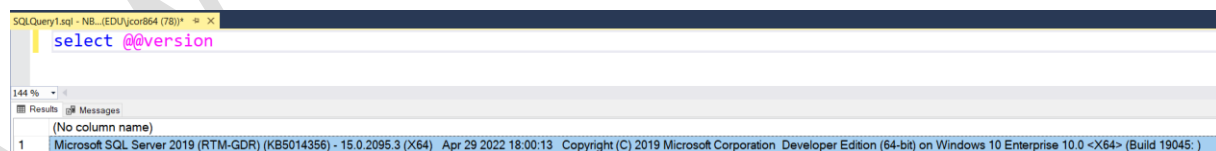
SQL Server

Software installation

- Server side: Download and install Microsoft SQL Server Express Edition from <https://www.microsoft.com/en-us/download/details.aspx?id=101064>. Choose all default options.
- Client side: download and install Microsoft SQL Server Management Studio from <https://learn.microsoft.com/en-us/sql/ssms/download-sql-server-management-studio-ssms?redirectedfrom=MSDN&view=sql-server-ver16> (if not yet available). Choose all default options. Use Windows Authentication to connect to the database server.

Sample databases

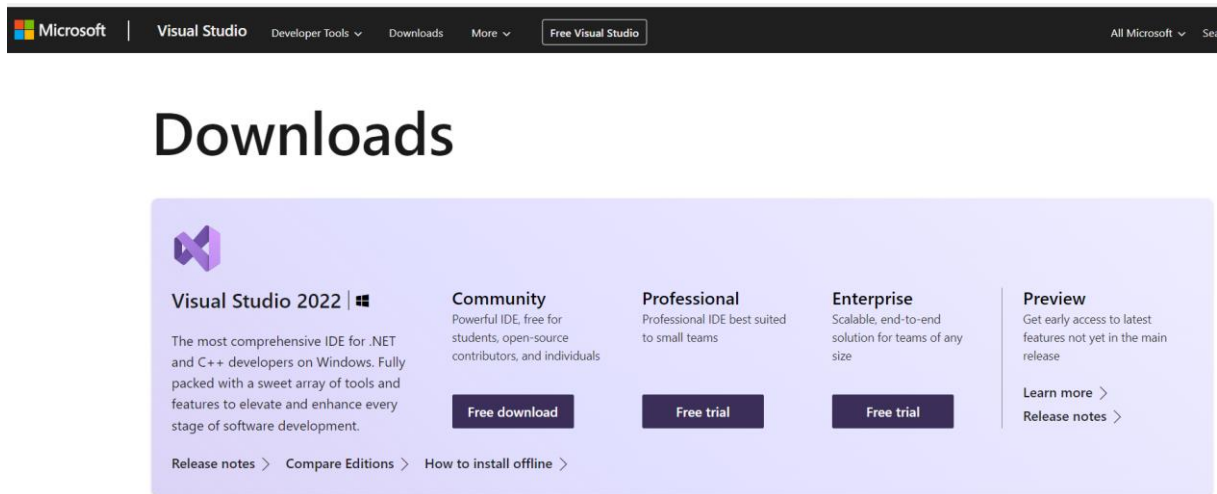
For the SQL exercises we use 2 databases: xtreme and tennis. The install scripts (tables + data) for those databases are provided (xtreme2019.sql and tennis2019.sql) and have to be executed in SQL Server Management Studio. If you are using a previous version (before 2019) of SQL Server, please let me know. I'll then provide you with the appropriate scripts. You can ask for your SQL Server version by executing the command `select @@version` in SQL Server Management Studio (this is NOT the version of SQL Server Management Studio!):



SQL Server Reporting Services

Software installation

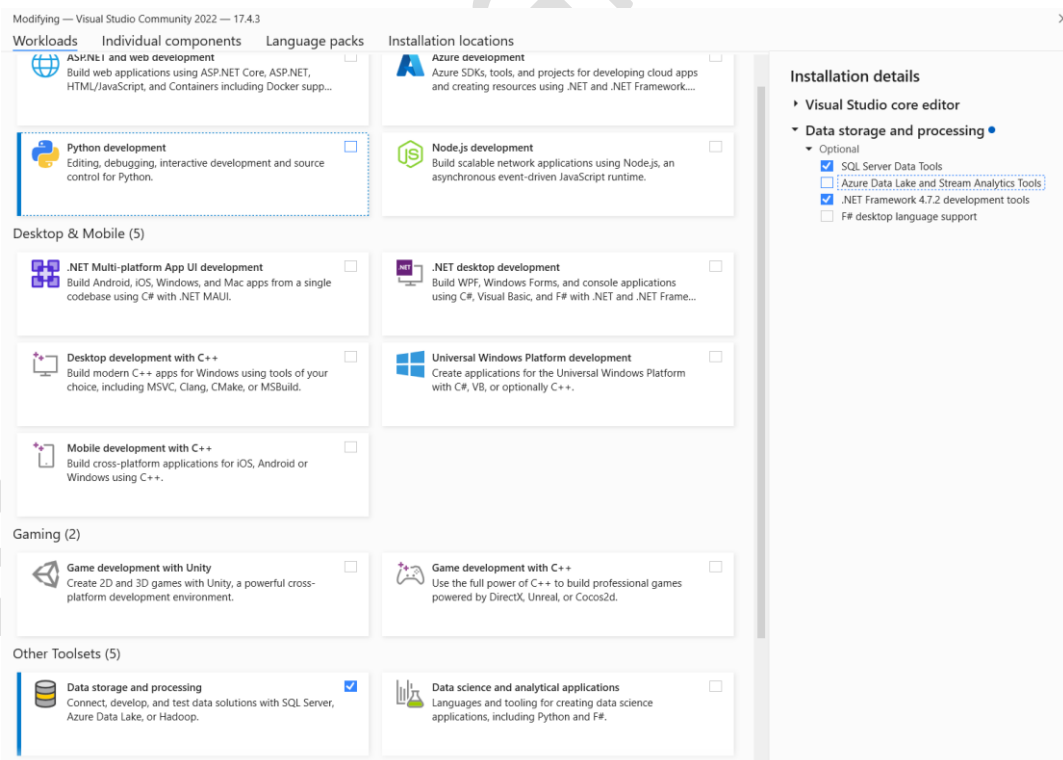
Go to <https://visualstudio.microsoft.com/downloads/> :



Choose “Free download”.

Install Visual Studio Community 2022. This may take a while.

After installation click “Modify” and choose “Data storage and processing” under Other Toolsets:



Click the button “Modify”.

Now start the Visual Studio 2022, click “continue without code” and choose the menu “Extensions”. Click “Manage Extensions” and type *report* in the search field. Choose “Microsoft Reporting Services Projects 2022”. Download and install.

To check if the installation was ok start Visual Studio again. Click File/New project and type *report server* in the search field. Two options should be available: **Report Server Project Wizard** and **Report Server Project**.

Sample database

For SQL Server Reporting Services we use the AdventureWorksDW2014 database. This is a backup file, which we have to restore. You can download the backup file from:

<https://learn.microsoft.com/en-us/sql/samples/adventureworks-install-configure?view=sql-server-ver16&tabs=ssms> :

AdventureWorks sample databases

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Applies to: SQL Server (all supported versions) Azure SQL Database Azure SQL Managed Instance Azure Synapse Analytics Analytics Platform System (PDW)

This article provides direct links to download AdventureWorks sample databases, as well as instructions for restoring them to SQL Server and Azure SQL Database.

For more information about samples, see the [Samples GitHub repository](#).

Prerequisites

- [SQL Server](#) or [Azure SQL Database](#)
- [SQL Server Management Studio](#) or [Azure Data Studio](#)

Download backup files

Use these links to download the appropriate sample database for your scenario.

- **OLTP** data is for most typical online transaction processing workloads.
- **Data Warehouse (DW)** data is for data warehousing workloads.
- **Lightweight (LT)** data is a lightweight and pared down version of the **OLTP** sample.

If you're not sure what you need, start with the OLTP version that matches your SQL Server version.

OLTP	Data Warehouse	Lightweight
AdventureWorks2019.bak	AdventureWorksDW2019.bak	AdventureWorksLT2019.bak
AdventureWorks2017.bak	AdventureWorksDW2017.bak	AdventureWorksLT2017.bak
AdventureWorks2016.bak	AdventureWorksDW2016.bak	AdventureWorksLT2016.bak
AdventureWorks2016_EXT.bak	AdventureWorksDW2016_EXT.bak	N/A
AdventureWorks2014.bak	AdventureWorksDW2014.bak	AdventureWorksLT2014.bak
AdventureWorks2012.bak	AdventureWorksDW2012.bak	AdventureWorksLT2012.bak

Follow the instructions on this website to restore the database file if you are not familiar with database restore.