

Instalación SQL Server 2019

Las siguientes opciones son para instalar SQL Server 2019 con los features que estaremos usando en el curso de Análisis de Datos para la fase de modelado multidimensional y análisis descriptivo

El instalador lo pueden encontrar aquí:

<https://www.microsoft.com/es-es/sql-server/sql-server-downloads>

Es importante que descarguen la versión DEVELOPER:

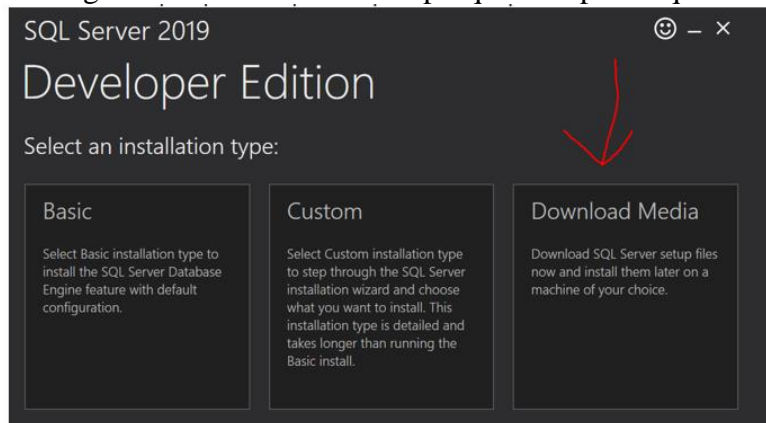


Developer

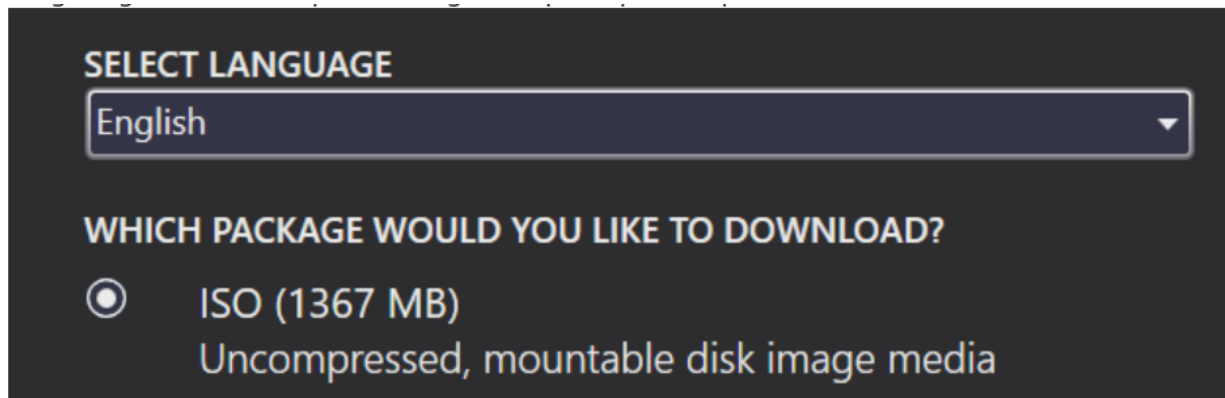
SQL Server 2019 Developer es una edición gratuita con todas las características que se puede usar como base de datos de desarrollo y pruebas en un entorno que no sea de producción.

Descargar ahora ↓

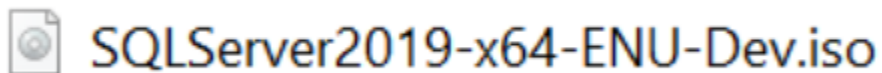
Eso les descargará un exe que servirá para instalar o descargar la media, es importante que elijan descargar la media de instalación porque esto puede que nos sirva para futuras instalaciones:



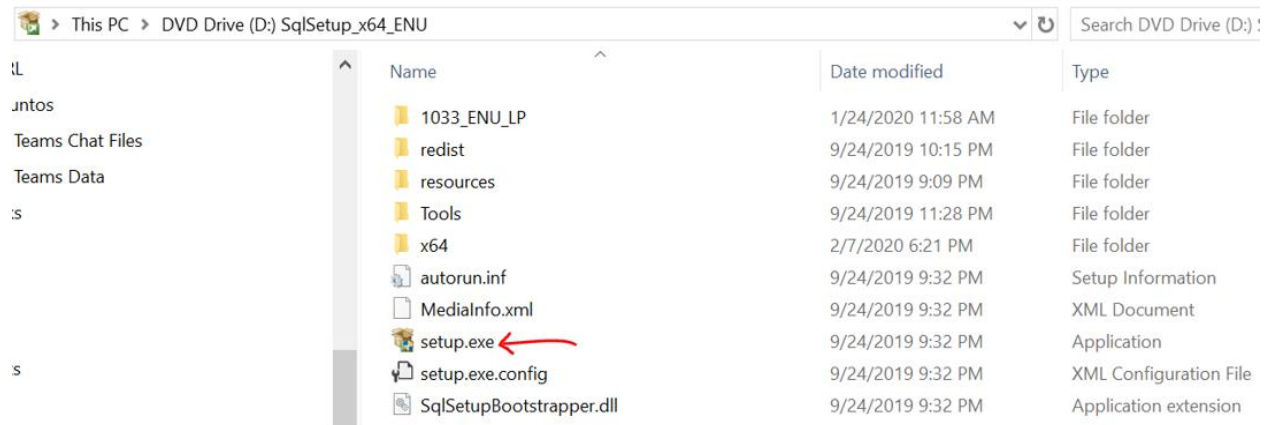
Luego eligen el formato, pueden elegir cualquiera pero de preferencia el .ISO:



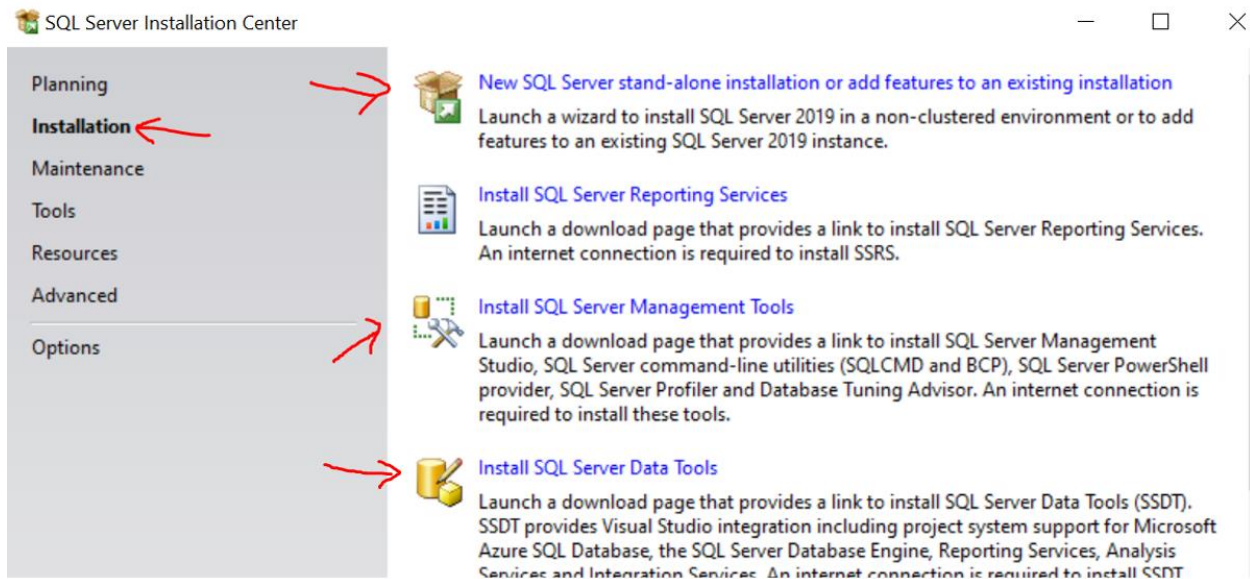
Eso les descargará el siguiente archivo:



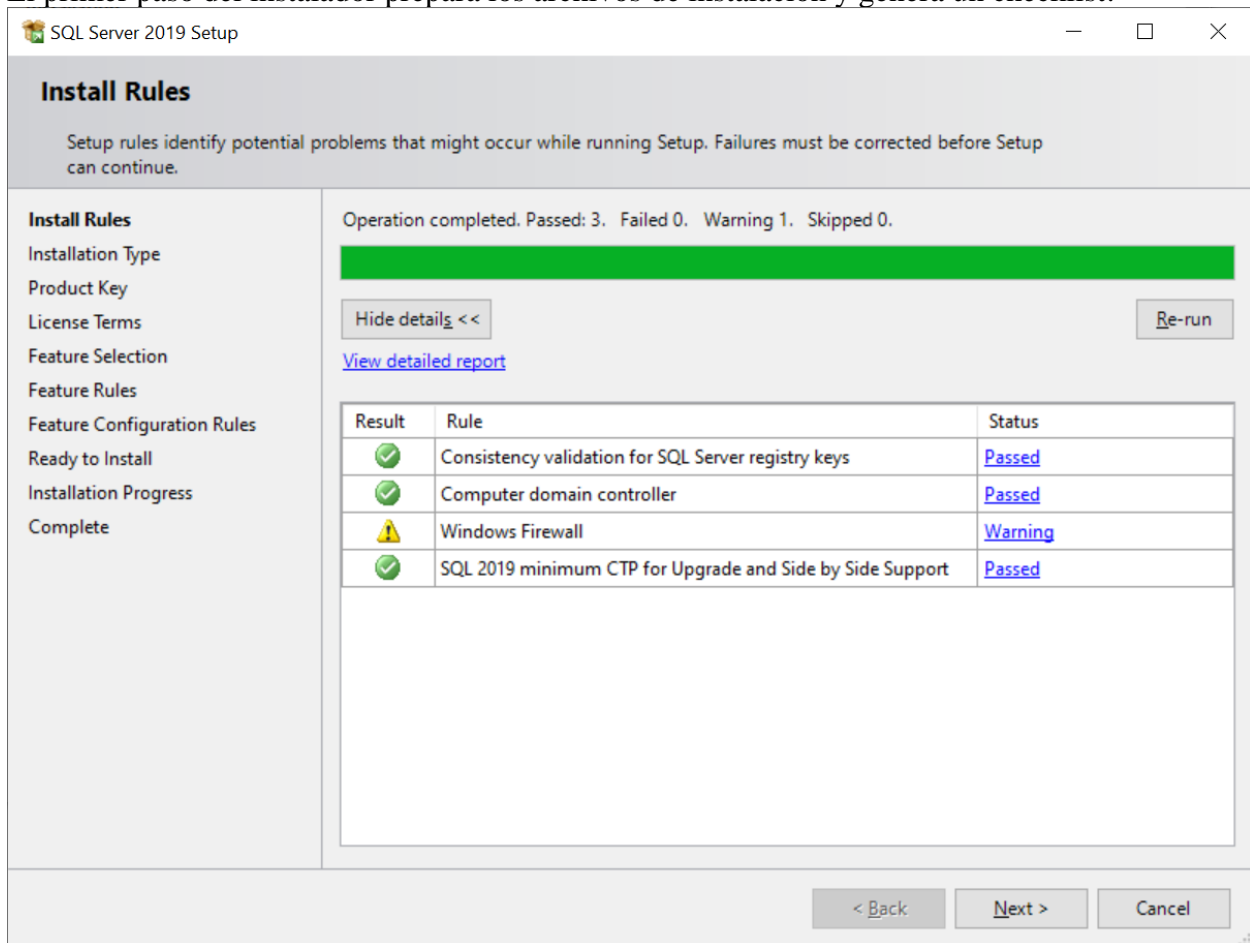
Al dar click creara un path de instalación en el cual pueden abrir el instalador que se llama "Setup":



Al abrir el archivo "setup.exe" diríjense al menú de instalación y seleccionen la primera opción que dice "Nueva instalación" (también deben de instalar SQL Server Management Studio y SQL Server Data Tools aunque este último servirá para futuras clases)



El primer paso del instalador prepara los archivos de instalación y genera un checklist:



Seleccionan nueva instalación

SQL Server 2019 Setup

Installation Type

Perform a new installation or add features to an existing instance of SQL Server 2019.

Install Rules

Installation Type

Product Key

License Terms

Feature Selection

Feature Rules

Feature Configuration Rules

Ready to Install

Installation Progress

Complete

☒ **Perform a new installation of SQL Server 2019**

Select this option if you want to install a new instance of SQL Server or want to install shared components.

☐ **Add features to an existing instance of SQL Server 2019**

MSSQLSERVER

Select this option if you want to add features to an existing instance of SQL Server. For example, you want to add the Analysis Services features to the instance that contains the Database Engine. Features within an instance must be the same edition.

Installed instances:

Instance Name	Instance ID	Features	Edition	Version
MSSQLSERVER	MSSQL15.MSSQLS...	SQLEngine,SQLEn...	Developer	15.0.2000.5
<Shared Compone...		BC, DQC, IS, IS\IS_...		15.0.2000.5

< Back

Next >

Cancel

En el paso de selección de features asegúrense de seleccionar las siguientes:

Features:

Instance Features

- ☒ Database Engine Services
 - ☐ SQL Server Replication
- ☒ Machine Learning Services and Language Extensions
 - ☒ R
 - ☒ Python
 - ☐ Java
- ☐ Full-Text and Semantic Extractions for Search
- ☒ Data Quality Services
- ☐ PolyBase Query Service for External Data
 - ☐ Java connector for HDFS data sources
- ☒ Analysis Services

Shared Features

- ☒ Machine Learning Server (Standalone)
 - ☒ R
 - ☒ Python
- ☒ Data Quality Client
- ☐ Client Tools Connectivity
- ☒ Integration Services
 - ☒ Scale Out Master
 - ☒ Scale Out Worker
- ☒ Client Tools Backwards Compatibility
- ☐ Client Tools SDK
- ☐ Distributed Replay Controller
- ☐ Distributed Replay Client
- ☒ SQL Client Connectivity SDK
- ☐ Master Data Services

Redistributable Features

Seleccionen un nombre para su instancia (si dejan “Default instance” esta bien también ya que se conectarán solo con el nombre de su máquina)



Instance Configuration

Specify the name and instance ID for the instance of SQL Server. Instance ID becomes part of the installation path.

Install Rules

Installation Type

Product Key

License Terms

Feature Selection

Feature Rules

Instance Configuration

Server Configuration

Database Engine Configuration

Analysis Services Configuration

Consent to install Microsoft R ...

Consent to install Python

Feature Configuration Rules

Ready to Install

Installation Progress

Complete

☐ Default instance

☒ Named instance:

Instance ID:

SQL Server directory: C:\Program Files\Microsoft SQL Server\MSSQL15.AD2C2020

Analysis Services directory: C:\Program Files\Microsoft SQL Server\MSAS15.AD2C2020

Installed instances:

Instance Name	Instance ID	Features	Edition	Version
MSSQLSERVER	MSSQL15.MSSQLS...	SQLEngine,SQLEn...	Developer	15.0.2000.5
<Shared Compone...		BC, DQC, IS, IS\IS_...		15.0.2000.5

< Back

Next >

Cancel

En este paso dejan todo predeterminado y solo dan “Next”

SQL Server 2019 Setup

Server Configuration

Specify the service accounts and collation configuration.

Install Rules
Installation Type
Product Key
License Terms
Feature Selection
Feature Rules
Instance Configuration
Server Configuration
Database Engine Configuration
Analysis Services Configuration
Consent to install Microsoft R ...
Consent to install Python
Feature Configuration Rules
Ready to Install
Installation Progress
Complete

Service Accounts Collation

Microsoft recommends that you use a separate account for each SQL Server service.

Service	Account Name	Password	Startup Type
SQL Server Agent	NT Service\SQLAgent\$A...		Manual
SQL Server Database Engine	NT Service\MSSQL\$AD2...		Automatic
SQL Server Analysis Services	NT Service\MSOLAP\$AD...		Automatic
SQL Server Launchpad	NT Service\MSSQLLaun...		Automatic
SQL Server Browser	NT AUTHORITY\LOCALS...		Automatic

☐ Grant Perform Volume Maintenance Task privilege to SQL Server Database Engine Service

This privilege enables instant file initialization by avoiding zeroing of data pages. This may lead to information disclosure by allowing deleted content to be accessed.

[Click here for details](#)

< Back Next > Cancel

En el siguiente paso eligen “Mixed Mode” como método de autenticación y presionen también el

botón que dice “Add curent user”

SQL Server 2019 Setup

Database Engine Configuration

Specify Database Engine authentication security mode, administrators, data directories, TempDB, Max degree of parallelism, Memory limits, and Filestream settings.

- Install Rules
- Installation Type
- Product Key
- License Terms
- Feature Selection
- Feature Rules
- Instance Configuration
- Server Configuration
- Database Engine Configuration**
- Analysis Services Configuration
- Consent to install Microsoft R ...
- Consent to install Python
- Feature Configuration Rules
- Ready to Install
- Installation Progress
- Complete

Server Configuration | Data Directories | TempDB | MaxDOP | Memory | FILESTREAM

Specify the authentication mode and administrators for the Database Engine.

Authentication Mode

☐ Windows authentication mode

☒ Mixed Mode (SQL Server authentication and Windows authentication)

Specify the password for the SQL Server system administrator (sa) account.

Enter password: [password field]

Confirm password: [password field]

Specify SQL Server administrators

LKQ\dsbolanos (Dan Bolanos)

SQL Server administrators have unrestricted access to the Database Engine.

Add Current User | Add... | Remove

< Back | Next > | Cancel

En la siguiente opción seleccionan modo “Multidimensional” y vuelven agregar a su usuario:

Analysis Services Configuration

Specify Analysis Services server modes, administrators, and data directories.

Install Rules
Installation Type
Product Key
License Terms
Feature Selection
Feature Rules
Instance Configuration
Server Configuration
Database Engine Configuration
Analysis Services Configuration
Consent to install Microsoft R ...
Consent to install Python
Feature Configuration Rules
Ready to Install
Installation Progress
Complete

Server Configuration Data Directories

Server Mode:

- ☒ Multidimensional and Data Mining Mode
☐ Tabular Mode
☐ PowerPivot Mode

Specify which users have administrative permissions for Analysis Services.

LKQ\dsbolanos (Dan Bolanos)

Analysis Services administrators
have unrestricted access to Analysis
Services.

Add Current User

Add...

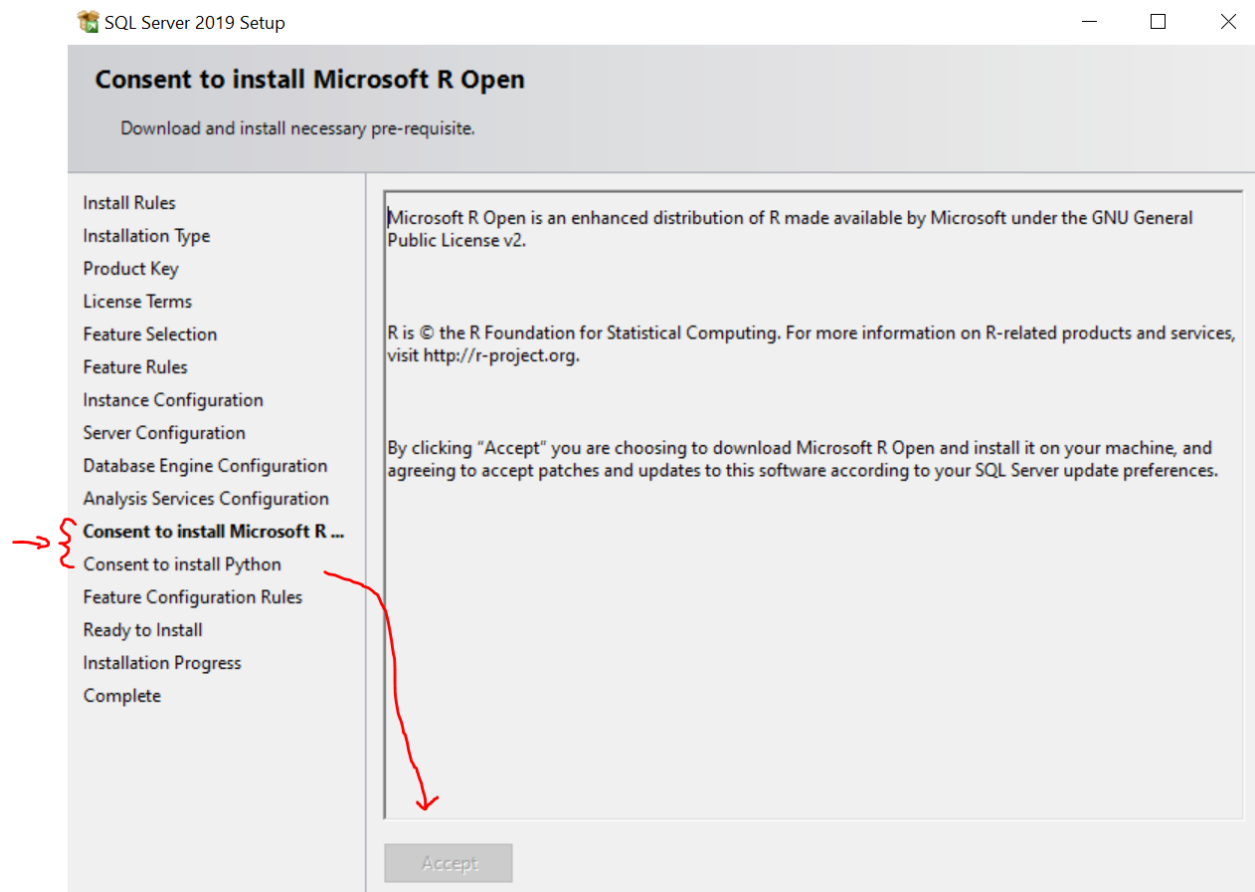
Remove

< Back

Next >

Cancel

En los siguientes dos pasos solo hay que aceptar los términos de instalar R y Python:



En el siguiente último paso aparecerá un resumen de lo que se habrá de instalar y solo hay que presionar el botón de "Install":

Ready to Install

Verify the SQL Server 2019 features to be installed.

Install Rules
Installation Type
Product Key
License Terms
Feature Selection
Feature Rules
Instance Configuration
Server Configuration
Database Engine Configuration
Analysis Services Configuration
Consent to install Microsoft R ...
Consent to install Python
Feature Configuration Rules
Ready to Install
Installation Progress
Complete

Ready to install SQL Server 2019:

- [-] Summary
 - ... Edition: Developer
 - ... Action: Install (Product Update)
 - [-] Prerequisites
 - [-] Already installed:
 - ... Windows PowerShell 3.0 or higher
 - ... Microsoft Visual C++ 2017 Redistributable
 - [-] To be installed from media:
 - ... Microsoft MPI v10
 - [-] General Configuration
 - [-] Features
 - ... Database Engine Services
 - ... Machine Learning Services and Language Extensions
 - ... R
 - ... Python
 - ... Data Quality Services
 - ... Analysis Services
 - ... Machine Learning Server (Standalone)
 - [-] Instance configuration
 - ... Instance Name: AD2C2020
 - ... Instance ID: AD2C2020

Configuration file path:

C:\Program Files\Microsoft SQL Server\150\Setup Bootstrap\Log\20200824_091818\ConfigurationFile.ini

< Back

Install

Cancel

Asegurese que les de la opción de edición Developer:

The screenshot shows the 'SQL Server 2019 Setup' window. The title bar includes the Microsoft logo and the text 'SQL Server 2019 Setup', along with standard window controls (minimize, maximize, close). The main window has a header section titled 'Product Key' with the instruction 'Specify the edition of SQL Server 2019 to install.' Below this is a left-hand navigation pane with the following items: 'Install Rules', 'Installation Type', 'Product Key' (which is highlighted), 'License Terms', 'Feature Selection', 'Feature Rules', 'Feature Configuration Rules', 'Ready to Install', 'Installation Progress', and 'Complete'. The main content area on the right contains a paragraph explaining how to validate the instance by entering a 25-character key from a Microsoft certificate, and also mentions the Developer, Evaluation, and Express editions. Below the text are two radio button options: 'Specify a free edition:' (which is selected) and 'Enter the product key:'. The 'Specify a free edition:' option has a dropdown menu currently showing 'Developer'. The 'Enter the product key:' option has a text input field with four dashes as placeholders. At the bottom right of the window are three buttons: '< Back', 'Next >', and 'Cancel'.

SQL Server 2019 Setup

Product Key

Specify the edition of SQL Server 2019 to install.

Install Rules
Installation Type
Product Key
License Terms
Feature Selection
Feature Rules
Feature Configuration Rules
Ready to Install
Installation Progress
Complete

Validate this instance of SQL Server 2019 by entering the 25-character key from the Microsoft certificate of authenticity or product packaging. You can also specify a free edition of SQL Server: Developer, Evaluation, or Express. Evaluation has the largest set of SQL Server features, as documented in SQL Server Books Online, and is activated with a 180-day expiration. Developer edition does not have an expiration, has the same set of features found in Evaluation, but is licensed for non-production database application development only. To upgrade from one installed edition to another, run the Edition Upgrade Wizard.

☒ Specify a free edition:
Developer

☐ Enter the product key:
- - - -

< Back Next > Cancel

Dan click en accept del EULA:

The screenshot shows the 'SQL Server 2019 Setup' window with the 'License Terms' tab selected. The window title bar includes standard Windows controls (minimize, maximize, close). The 'License Terms' section is highlighted in the left sidebar. The main content area displays the 'MICROSOFT SOFTWARE LICENSE TERMS' for 'MICROSOFT SQL SERVER 2019 DEVELOPER'. The text explains that these terms are an agreement between the user and Microsoft, applying to the software and any updates. It states that by using the software, the user accepts these terms. An 'IMPORTANT NOTICE' section mentions automatic updates to previous versions of SQL Server. At the bottom, there is a checkbox labeled 'I accept the license terms and' followed by a link to the 'Privacy Statement'. Below this, a paragraph explains that SQL Server transmits installation and usage data to Microsoft to improve the product, with a link to the 'documentation' for more details. At the bottom right, there are three buttons: '< Back', 'Next >', and 'Cancel'.

SQL Server 2019 Setup

License Terms

To install SQL Server 2019, you must accept the Microsoft Software License Terms.

MICROSOFT SOFTWARE LICENSE TERMS

MICROSOFT SQL SERVER 2019 DEVELOPER

These license terms are an agreement between you and Microsoft Corporation (or one of its affiliates). They apply to the software named above and any Microsoft services or software updates (except to the extent such services or updates are accompanied by new or additional terms, in which case those different terms apply prospectively and do not alter your or Microsoft's rights relating to pre-updated software or services). **IF YOU COMPLY WITH THESE LICENSE TERMS, YOU HAVE THE RIGHTS BELOW. BY USING THE SOFTWARE, YOU ACCEPT THESE TERMS. IF YOU DO NOT ACCEPT THEM, DO NOT USE THE SOFTWARE.**

IMPORTANT NOTICE: AUTOMATIC UPDATES TO PREVIOUS VERSIONS OF SQL SERVER. If this software is installed on servers or devices running any supported editions of SQL Server prior to SQL Server 2019 (or components of any of them) this software will automatically

☒ I accept the license terms and [Privacy Statement](#)

SQL Server transmits information about your installation experience, as well as other usage and performance data, to Microsoft to help improve the product. To learn more about data processing and privacy controls, and to turn off the collection of this information after installation, see the [documentation](#).

< Back Next > Cancel