

SQL Server 2019 Developer Edition

General information about database engines

A database engine is a component of the system that is used to create, read, update and delete (CRUD) data from a database.

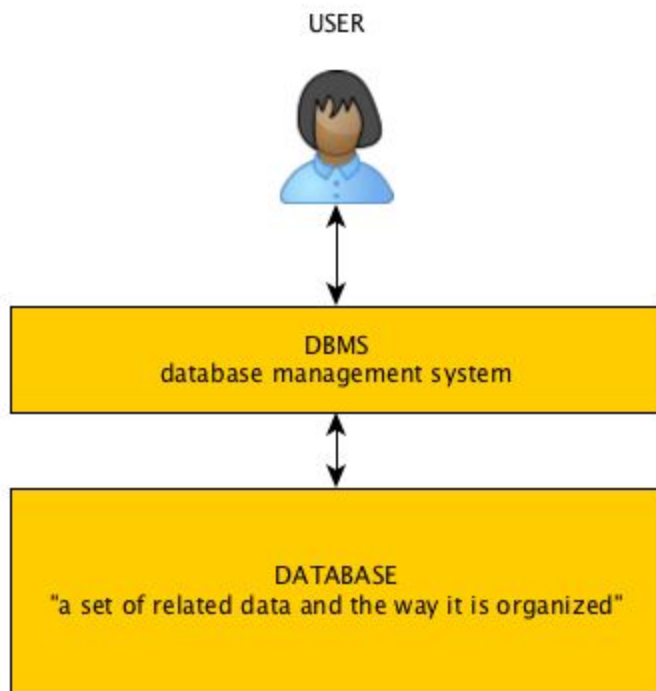
The database engine has 2 major components: storage engine and query processor.

Storage engine writes data to and from stable media (disk)

Query processor accepts, parses, and executes sql commands

When a user submits a SELECT statement, they're asking the query processor to retrieve data that resides in data files.

After the query processor retrieves the data, the result set is returned.



The DBMS (engine) interacts with the database to send and receive data.

Why use SQL Server?

SQL Server Developer edition lets developers build any kind of application on top of SQL Server. It includes all the functionality of Enterprise edition but is licensed for use as a development and test system, not as a production server. SQL Server Developer is an ideal choice for people who build and test applications. SQL Server works natively with .NET applications, so it's the choice for software that runs on a Windows server or desktop. It makes integration simpler if we use SQL server.

We're not using MySQL because that RDBMS works natively with PHP while SQL Server works natively with .NET.

Installation:

Windows:

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

Basic -> Accept -> Install

Needs Sql Server Management System (SSMS)

Mac:

<https://database.guide/install-sql-server-2019-on-a-mac/>