

« System Properties Microsoft SQL Server vs. MySQL vs. PostgreSQL »

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Plan

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MySQL Definition



What is meant by MySQL?

- It is one of the most popular database management systems originally launched way back in 1995.
- SQL is the core of MySQL. And 'My' with 'SQL' is there because it's the name of its co-founder Michael Widenius' daughter.
- It is an open-source relational database management system.

MySQL is a freely available database system

MySQL is easy to use as compared to other

It can be used with any programming language

MySQL can run on multiple platforms

PostgreSQL Definition

What is the use of PostgreSQL?

- The origins of PostgreSQL date back to 1986 as part of the POSTGRES project at the University of California at Berkeley
- PostgreSQL is an advanced, enterprise-class, and open-source relational database system. PostgreSQL supports both SQL (relational) and JSON (non-relational) querying

SQL (Ordered sets, Table sampling..)

Performance (Parallel queries, Many different types of indexes..)

Replication (Synchronous and asynchronous replication..)

Securitys (Users, roles, Full support for SSL...)

Stored procedures (Support for custom aggregates..)

SQL Server Definition



What does SQL Server mean?

- SQL Server is a relational database management system, or RDBMS, developed and marketed by Microsoft.
- SQL Server is built on top of SQL, a standard programming language for interacting with the relational databases.
- SQL Server works exclusively on Windows environment for more than 20 years.

Easy Installation

Improved Performance

Security

Multiple Editions

**Excellent Data
Restoration**

Comparison Microsoft SQL Server vs. MySQL vs. PostgreSQL



Table: Comparison Microsoft SQL Server vs. MySQL vs. PostgreSQL

Name	Microsoft SQL Server	MySQL	PostgreSQL
Description	Microsofts relational DBMS	Widely used open source RDBMS	Widely used open source RDBMS info
Primary database model	<u>Relational DBMS</u>	Relational DBMS	Relational DBMS
Secondary database models	Document store Graph DBMS	<u>Document store</u>	<u>Document store</u>
Website	www.microsoft.com/en-us/sql-server	www.mysql.com	www.postgresql.org
Developer	Microsoft	Oracle	PostgreSQL Global Development Group
Initial release	1989	1995	1989
License	commercial	Open Source	Open Source

Name	Microsoft SQL Server	MySQL	PostgreSQL
Implementation language	C++	C and C++	C
Server operating systems	Linux Windows	FreeBSD Linux OS X Solaris Windows	FreeBSD HP-UX Linux NetBSD OpenBSD OS X Solaris Unix Windows
Supported programming languages	C# C++ Delphi Go Java JavaScript (Node.js) PHP Python R Ruby Visual Basic	Ada C C# C++ D Delphi Eiffel Erlang Haskell Java JavaScript (Node.js) Objective-C OCaml Perl PHP Python Ruby Scheme Tcl	.Net C C++ Delphi Java JavaScript (Node.js) Perl PHP Python Tcl
Server-side scripts	Transact SQL, .NET languages, R, Python and (with SQL Server 2019)	yes	user defined functions



Thank you

