What is MySQL?

MySQL is currently the most popular database management system software used for managing the relational database. It is open-source database software, which is supported by Oracle Company. It is fast, scalable, and easy to use database management system in comparison with Microsoft SQL Server and Oracle Database. It is commonly used in conjunction with [PHP](https://www.javatpoint.com/php-tutorial) scripts for creating powerful and dynamic server-side or web-based enterprise applications.

It is developed, marketed, and supported by **MySQL AB, a Swedish company**, and written in [C programming language](https://www.javatpoint.com/c-programming-language-tutorial) and [C++ programming language](https://www.javatpoint.com/cpp-tutorial). The official pronunciation of MySQL is not the My Sequel; it is ***My Ess Que Ell****. However, you can pronounce it in your way.* Many small and big companies use MySQL. MySQL supports many Operating Systems like [Windows](https://www.javatpoint.com/windows), [Linux](https://www.javatpoint.com/linux-tutorial), MacOS, etc. with C, C++, and [Java languages](https://www.javatpoint.com/java-tutorial).

MySQL is a [Relational Database Management System](https://www.javatpoint.com/what-is-rdbms) (RDBMS) software that provides many things, which are as follows:

* It allows us to implement database operations on tables, rows, columns, and indexes.
* It defines the database relationship in the form of tables (collection of rows and columns), also known as relations.
* It provides the Referential Integrity between rows or columns of various tables.
* It allows us to updates the table indexes automatically.
* It uses many SQL queries and combines useful information from multiple tables for the end-users.

What is PostgreSQL?

PostgreSQL (pronounced as **post-gress-Q-L**) is an open source relational database management system (DBMS) developed by a worldwide team of volunteers. PostgreSQL is not controlled by any corporation or other private entity and the source code is available free of charge.

PostgreSQL runs on all major operating systems, including Linux, UNIX (AIX, BSD, HP-UX, SGI IRIX, Mac OS X, Solaris, Tru64), and Windows. It supports text, images, sounds, and video, and includes programming interfaces for C / C++, Java, Perl, Python, Ruby, Tcl and Open Database Connectivity (ODBC).

PostgreSQL supports a large part of the SQL standard and offers many modern features including the following −

* Complex SQL queries
* SQL Sub-selects
* Foreign keys
* Trigger
* Views
* Transactions
* Multiversion concurrency control (MVCC)
* Streaming Replication (as of 9.0)
* Hot Standby (as of 9.0)

What is SQL Server?

SQL Server is a relational database management system, or RDBMS, developed and marketed by Microsoft.

Similar to other RDBMS software, SQL Server is built on top of SQL, a standard programming language for interacting with the relational databases. SQL server is tied to Transact-SQL, or T-SQL, the Microsoft’s implementation of SQL that adds a set of proprietary programming constructs.

SQL Server works exclusively on Windows environment for more than 20 years. In 2016, Microsoft made it available on Linux. SQL Server 2017 became generally available in October 2016 that ran on both Windows and Linux.

comparison between the three RDBMS







