What is SQL Server?

Microsoft SQL Server is a relational database management system. It supports the Structured Query language and comes with its own implementation of the SQL language which is the Transact-SQL(T-SQL). It has an integrated environment to handle SQL databases, which is the SQL Server Management Studio.

Instance of SQL Server:

- An instance is an installation of SQL Server.
- An instance is an exact copy of the same software.
- If we install 'n' times, then 'n' instances will be created.
- There are two types of instances in SQL Server a) Default b) Named.
- Only one default instance will be supported in one Server.
- Multiple named instances will be supported in one Server.
- Default instance will take the server name as Instance name.
- Default instance service name is MSSQLSERVER.

Advantages of Instances:

- To install different versions in one machine.
- To reduce cost.
- To maintain production, development, and test environments separately.
- To reduce temporary database problems.
- To separate security privileges.
- To maintain standby server.

What is MySQL?

MySQL is a relational database management system based on the Structured Query Language, which is the popular language for accessing and managing the records in the database. MySQL is open-source and free software. It is supported by Oracle Company.

Mysql is used by Wikipedia, Facebook, Google, Flickr, YouTube, and all famous companies.

The WordPress, Joomla, Drupal and all Content Management Systems (CMS) uses the MySQL.

What is PostgreSQL?

PostgreSQL is an open-source relational database system with 30+ years of active development in the industry. PostgreSQL supports both SQL (relational) and JSON (non-relational) querying.

PostgreSQL and MySQL are both immensely popular open-source databases, and a variety of real-time applications today utilize both. MySQL is known to be the world's most popular database, whereas PostgreSQL is known as the world's most advanced RDBMS database. As an RDBMS database, MySQL is not fully SQL compliant and does not have many of the features that PostgreSQL has. This is why PostgreSQL has become a great choice for developers, and its popularity is growing exponentially with each passing day.

Microsoft SQL Server vs. MySQL vs. PostgreSQL

Name	Microsoft SQL	Mysql	PostgreSQL
	Server		
License	Commercial	Open source	Open source
Server operating	Linux / Windows	FreeBSD	FreeBSD
systems		Linux	HP-UX
		OS X	Linux
		Solaris	NetBSD
		Windows	OpenBSD
			OS X
			Solaris
			Unix
			Windows
Supported	C#	Ada	.Net
programming	C++	С	С
languages	Delphi	C#	C++
	Go	C++	Delphi
	Java	D	Java
	JavaScript (Node.js)	Delphi	JavaScript (Node.js)
	PHP	Eiffel	Perl
	Python	Erlang	PHP
	R	Haskell	Python
	Ruby	Java	Tcl
	Visual Basic	JavaScript (Node.js)	
		Objective-C	
		OCaml	
		Perl	
		PHP	
		Python	
		Ruby	
		Scheme	
		Tcl	