





# Spring Framework 5

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Beginner to Guru

History of MySQL



## About MySQL

- With over 100 million downloads, MySQL is the most popular database in history
- MySQL is a Relational Database System (aka RDMS)
- MySQL is owned by Oracle, but MySQL is open source and free to use
- Officially pronounced 'My Ess Que Ell'







## MySQL History

- MySQL was created in 1995 by a Swedish company called MySQL AB
- Original developers included: Michael (Monty) Widenius, David Axmark, Allan Larsson
  - MySQL is named after Monty's daughter 'My'
- Under GPL, MySQL was open source in 2000
- MySQL had over 2 million active installations by the end of 2001





## MySQL History

- In 2005, Oracle acquired Innobase, the company behind the storage backend of MySQL
- In 2006, MySQL had 8 million installations, 320 employees, across 25 countries
- Sun Microsystems bought MySQL in 2008 for \$1 billion
  - MySQL had become the choice database for large corporations, banks, and telecoms





## MySQL History

- In 2010, after legal complications in the EU, Oracle's acquisition of Sun Microsystems was finalized
  - This included the purchase of MySQL
- Michael (Monty) Widenius left Sun Microsystems and developed a fork of MySQL called MariaDB
  - Largely out of concern about the future of MySQL
  - The MariaDB API remains 100% compatible with MySQL





## MySQL Features

- MySQL is a Relational Database Management System
- “SQL” stands for Structured Query Language
  - MySQL supports the ANSI/ISO SQL standard
- MySQL is developed in C and C++, making it portable across many different platforms
- MySQL is very fast, stable and scalable.
- There are MySQL clients for all popular languages.
  - C, C++, Eiffel, Java, Perl, PHP, Python, Ruby, Tcl, and ODBC, JDBC, [ADO.NET](#)





# MySQL Features

- Stored Procedures
- Triggers
- Cursors
- Updated Views
- Query Cache
- Subselects







## MySQL Features

- ACID Compliance
  - Atomicity - all or nothing
  - Consistency - transactions are valid to rules of the DB
  - Isolation - Results of transactions are as if they are done end to end
  - Durability - Once a transaction is committed, it remains so





## MySQL Editions

- **MySQL Community Edition** - free!
  - Open Source under GPL, free to use.
  - This is the edition we will use in the course.
  - Community support only
- **MySQL Standard Edition** - Annual subscription (\$2,000/year, per ~ server)
  - 24x7 Support from Oracle
  - Technically the same as Community Edition, but with support from Oracle





## MySQL Editions (Cont.)

- **MySQL Enterprise Edition** - (\$5,000/year per ~server)
  - Provides features for cluster routing and partitioning.
  - Includes Enterprise tooling for monitoring, backups, and security
  - Thread pooling for significant increase in performance under large loads
- **MySQL Cluster CGE** - (\$10,000/year per ~server)
  - Designed for near linear scalability through clustering.
  - High volume, highly available.



