

# PostgreSQL



## What is PostgreSQL?

PostgreSQL is the most advanced Open-Source database system in the world.

Many organizations from small online businesses, to government institutions, to large corporations have implemented PostgreSQL to handle their most valuable data and mission critical applications.

## Advantages of PostgreSQL

Join the PostgreSQL revolution, and take advantage of:

- **Uncompromising reliability and stability**  
It is extremely common for companies to report that PostgreSQL has never crashed for them in several years of high activity operation. Not even once. It just works.
- **Excellent Support**  
PostgreSQL has a vibrant community of committed professionals that are available to help you. In addition, many commercial companies offer support solutions.
- **Appropriate for high volume environments**  
PostgreSQL uses a multiple row data storage strategy called MVCC (Multiversion Concurrency Control). This makes it especially suitable for high volume environments. Proprietary vendors use this strategy for that reason as well.
- **Cross platform**  
PostgreSQL is available for almost every brand of Unix. The last stable version runs on 23 platforms. You can use PostgreSQL on Windows as well.
- **Extensible to your requirements**  
PostgreSQL is Open Source Software. The source code is available to all at no charge. If your staff have a need to extend or customize PostgreSQL in any way then they are able to do so with a minimum of effort and costs.

## Technical Details of PostgreSQL

- ANSI-SQL99-Standard compliant
- Interfaces for Tcl, Perl, C, C++, PHP, ODBC, JDBC, Embedded SQL in C, Python, and Ruby
- GUI administration tools: pgAdmin, pgAccess, phpPgAdmin
- Views, sequences, inheritance, outer joins, sub-selects, referential integrity
- UNION, INTERSECT and EXCEPT queries
- Rules, triggers
- User-defined functions, stored procedures
- Procedural languages PL/pgSQL, PL/Perl, PL/Python, PL/Tcl, and others
- Extensible data-type system
- Hot stand by, replication
- Fully ACID compliant, serializable transactions
- Functional and partial serializable indexes
- Unicode and locale support
- Loadable extensions offering full-text search, GIS, XML and other functionality
- Support for SSL and Kerberos authentication
- Tools for generating portable SQL to share with other SQL-compliant systems
- Cross-database compatibility functions

With a very long development history, one of the strongest development communities in the world, and a global reputation for high quality software engineering, PostgreSQL gets the job done and with no hassle. Any more questions? You will certainly find the answer on the website [www.postgresql.org](http://www.postgresql.org).

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