

PostgreSQL: Getting Started

Installation and Configuration

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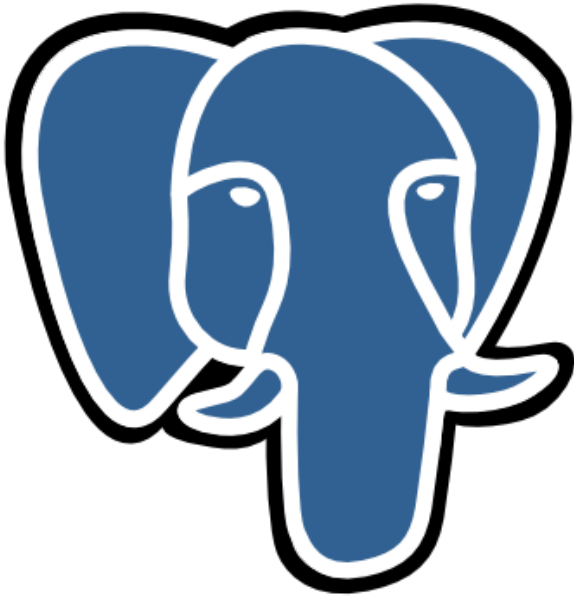
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William Shakespeare

“What's in a name?
that which we call a
rose By any other
name would smell as
sweet.”
~ Romeo and Juliet

PostgreSQL or Postgres



PostgreSQL

A Brief History of the Name

- Evolved from Ingres Project at University of California, Berkeley
- Ingres Team Leader – Michael Stonebraker
- 1982 – Michael left University
- 1985 – Michael returned to University
- Started to work on Post-Ingres project
- 1988 – The first prototype of product
- 1994 – Ingres based Quel Query Language interpreter was replaced with SQL Query language interpreter
- 1996 – PostgreSQL
- 1997 – First PostgreSQL release

What is PostgreSQL?

- **Object Relational Database Management System (ORDBMS)**
- **Free**
- **Open Source**
- **Cross Platform**
 - Linux
 - FreeBSD
 - Solaris
 - Microsoft Windows
 - Mac OS X (starting with OS X 10.7 Lion)

PostgreSQL Important Features

- **SQL: 2011 Standard**
- **ACID compliant**
- **Indexes**
- **Views, Triggers, Procedures, Functions**
- **Relationships**
- **MultiVersion Concurrency Control (MVCC)**
- **SQL:2008 Datatypes**
 - INTEGER, NUMERIC, BOOLEAN, CHAR, VARCHAR, DATE, INTERVAL, and TIMESTAMP
- **Native Programming Interface**
 - C/C++, Java, .Net, Perl, Python, Ruby, Tcl, ODBC

PostgreSQL Limits

Limit	Value
Maximum Database Size	Unlimited
Maximum Table Size	32 TB
Maximum Row Size	1.6 TB
Maximum Field Size	1 GB
Maximum Rows per Table	Unlimited
Maximum Columns per Table	250 - 1600 depending on column types
Maximum Indexes per Table	Unlimited

Prominent Users of PostgreSQL

- Yahoo
- Skype
- Instagram
- Disqus
- OpenStreetMap
- Reddit

What is This Course About?

- **Installation and Configuration**
- **Creating and Accessing Database and Table**
- **Updating and Deleting Data from Table**
- **Retrieving Data from Multiple Tables**
- **Resources**

Series of 5 Courses

- **Course 1: PostgreSQL: Getting Started**
- **Course 2: PostgreSQL: Introduction to SQL Queries**
- **Course 3: PostgreSQL: Advanced SQL Queries**
- **Course 4: PostgreSQL: Advanced Server Programming**
- **Course 5: PostgreSQL: Index Tuning and Performance Optimization**

Important Downloads

- **PostgreSQL Download**

- <http://www.postgresql.org/download/>

- **Windows Graphical Installer**

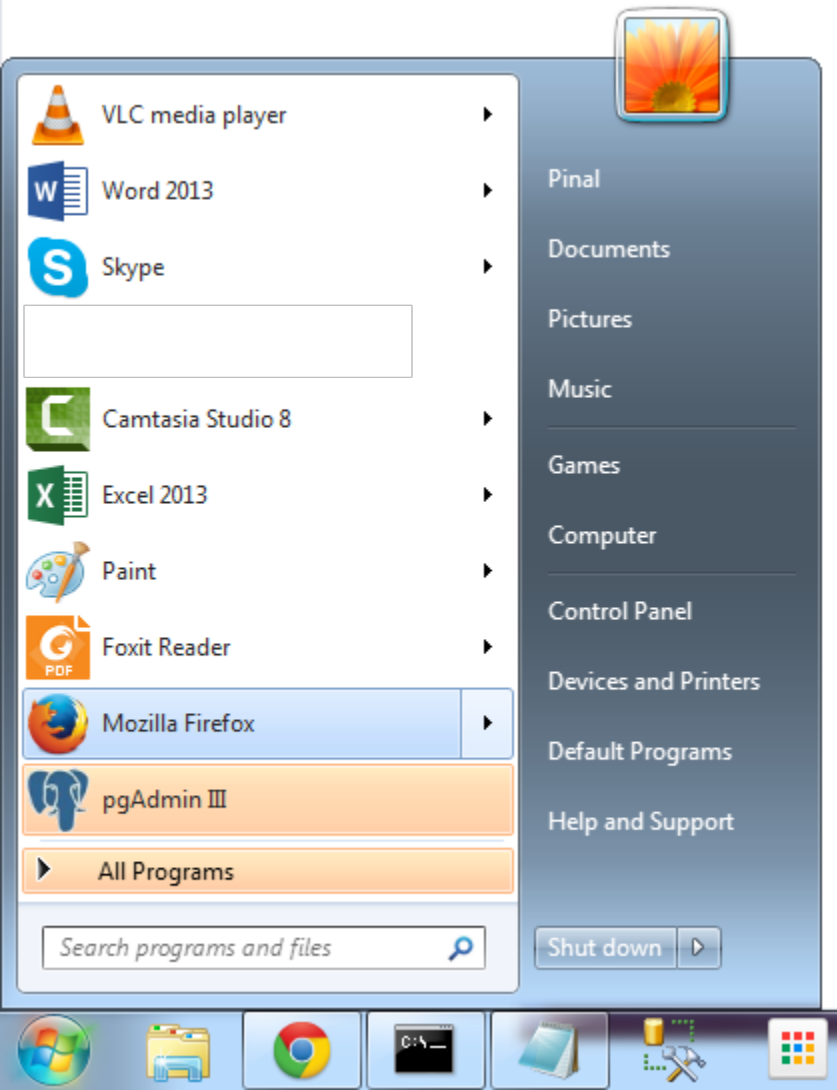
- PostgreSQL Server
- pgAdmin III – a graphical IDE
- <http://www.postgresql.org/download/windows/>

- **Samples Database - *pagilia***

- <http://www.postgresqltutorial.com/postgresql-sample-database/>
- <http://bit.ly/pagilia>

- **Postgres for .NET Developers by Rob Conery**

Installation and Configuration



Summary

- PostgreSQL is Free and Open Source Object Relational Database Management System (ORDBMS)
- Cross Platform, ACID compliant
- Native Language Support
- Windows Graphical Installer
 - PostgreSQL Server
 - pgAdmin III – a graphical IDE



Let's *START* !

Pluralsight Discussion Forum

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