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Postgres Weekly

Issue 189 — January 11, 2017

Simple But Handy Postgres Features

Here's a collection of a few simple but very handy Postgres features that will be useful for anyone who works with Postgres frequently.

CRAIG KERSTIENS [#TUTORIAL](#)

Tuning PostgreSQL with pgbench

pgbench is the norm when it comes to performance testing your Postgres database. Here you can learn how to use it to simulate a more realistic workload to assist with tuning your database.

BEN CANE [#TUTORIAL](#)

Postgres 10 Highlight: Quorum Set of Synchronous Standbys

Being able to define quorum sets of synchronous standbys provides more flexibility in some availability scenarios.

MICHAEL PAQUIER [#NEWS](#)

PostgreSQL Security Audit With 2ndQuadrant Can Help Harden Your Database

Identifying database security vulnerabilities is the first step towards improving your infrastructure so that you don't fall victim to breach. A Security Audit with 2ndQuadrant evaluates and provides recommendations for the security of your database.

2NDQUADRANT POSTGRESQL SERVICES [#SPONSORED](#)



PGConf US 2017 (Jersey City, March 28-31)

Early registration for this years PGConf US, taking place in March near NYC, is now open.

PGCONF US [#NEWS](#)

repmgr 3.3 Released

Simplifies the process of setting up databases with high availability and scalability requirements.

2NDQUADRANT [#TOOLS](#)

The Difference Between ROW_NUMBER(), RANK(), and DENSE_RANK()

[Window functions](#) allow you to interact between rows in Postgres. For analytics they're extremely powerful, and there's a number of functions you can use with them. Here's an overview of a few valuable ones and the differences.

JOOQ [#TUTORIAL](#)

The Multi-Column Index of the Mysteries

Indexing is powerful in Postgres, with types, conditional, and functional indexes. While they can give you great performance, understanding the details can help you know what you're getting. Here's a great read on multi-column ones and how they work.

THE BUILD [#TUTORIAL](#)

What Is The Purpose of PostGIS On PostgreSQL?

Why don't we just use Postgres' spatial functions? Paul Ramsey looks at the history.

STACK EXCHANGE

Use kill -9 Only in an Emergency

kill -9 on Postgres will dramatically slow down its restart time.

BRUCE MOMJIAN [#OPINION](#)

Barman v2.1 Announced

A minor release of the backup and recovery manager tool Barman, fixing a few bugs.

POSTGRESQL [#TOOLS](#)

One-Time Passwords with Google Authenticator PAM

Most people connect to Postgres with a standard username/password, but there's a few more options. This highlights some of the flexibility of authentication you can use with PostgreSQL.

ERGO

'RustgreSQL': Could Postgres Be Ported to Rust?

Spoiler: Almost certainly not, but it was an interesting question.

JOEL JACOBSON

The Lead Developer 1-day conference for Tech Leads. 21 Feb, New York.

High-level sessions on growing an engineering organization with effective DevOps, going serverless and more.

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