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Database Weekly

Issue 138 — January 20, 2017

FEATURED

How Discord Stores Billions of Messages with Cassandra — Discord is a popular chat system for gamers. They started out with MongoDB but here they explain why and how they moved to Cassandra, and how they dealt with garbage collection issues.

STANISLAV VISHNEVSKIY

DBeaver: A Free Universal SQL Client — Cross platform and support all popular databases: MySQL, PostgreSQL, SQLite, Oracle, DB2, SQL Server, Sybase, Teradata, MongoDB, Cassandra, Redis, etc.

JKISS.ORG **TOOLS**

Data Coding 101: How to install Python, SQL, R and Bash — A step by step guide - for non-devs and wannabe data scientists - to install R, Python, SQL and Bash in 30 minutes to begin data coding and analysis.

TOM MESTER

SQL Source Control: track each change to your SQL Server database — Get a full history in your source control system. See who made changes, what they did & why. [See how](#)

RED GATE **SPONSORED**



Oracle Releases A Monster Security Update for Over 100 Exploitable Flaws — Oracle is urging its customers to apply patches that include 270 fixes to prevent at least 100 remotely exploitable flaws.

ZDNET

The Compendium of Database Ransomware — A post being kept updated with database names found to be associated with ransomware attacks.

BINARYEDGE

Managing Employees and Resources: A Process Management Data Model — What kind of data model can handle all the planning and activities used in process management? The latest in Vertabelo's series of posts on database modelling.

VERTABELO

Intel Unveils Deep Learning Framework for Spark — [BigDL](#) is a new, open source deep learning framework that runs as a Spark job atop Hadoop.

DATANAMI **TOOLS**

PostgreSQL Exercises — If you're looking for a way to practice your SQL skills, PG Exercises offers some good example data and exercises to hone your skills.

ALISDAIR OWENS **TOOLS**

IN BRIEF

[Elasticsearch Ransomware Attacks Now Number in the 1000s](#)

ZDNET **NEWS**

[NRAM Set to Spark A 'Holy War' Among Memory Technologies](#) — A new type of RAM based on carbon nanotubes.

LUCAS MEARIAN **NEWS**

[Azure SQL Database Doubles Read and Write Performance](#)

JAN ENGELSBURG **NEWS**

[Estimating CPU Per Query With Weighted Linear Regression](#) — This ebook explains how a specialization of linear regression answers seemingly unsolvable database questions.

VIMDCORTEX **SPONSORED**

[Importing JSON into Hadoop via Kafka](#)

NURIARUIZ

[46 Questions On SQL to Test A Data Science Professional](#)

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[ZAMEER ANSARI](#)
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[How to Emulate Partial Indexes in Oracle](#)

JOQQ

[Scrape Any Website/Service/API with SQL](#) — Using Node.js, PhantomJS, and [AlaSQL](#).

MIKE PARSONS

[Simple Row Level Security for SQL Server 2016](#)

GREG LARSEN

[How 6 Lines of Code + SQL Server Can Bring Deep Learning to Any App](#)

SQL SERVER BLOG

[Live Coding a Hadoop MapReduce Dedupe Algorithm in 30 Minutes](#)

JESSE ANDERSON **VIDEO**

[Don't Design Databases Without Foundational Knowledge and Conceptual Models](#)

FABIAN PASCAL

[Updating Production Environments to Feed a Big Data Application](#)

LOCKWOOD LYON

[The Impact of Swapping on MySQL Performance](#)

PETER ZAITSEV

[Postgres-BDR: Multi Master Replication Solution for PostgreSQL](#) — BDR is a multi-master replication system for geographically distributed clusters using logical replication.

2NDQUADRANT POSTGRES SQL PRODUCTS **SPONSORED**

[JsonDB: Schemaless Database Abstraction Library for MySQL and PHP](#)

JOHN K. E. WILSON **CODE**

[Alenka: A GPU-Based Database Engine](#) — Written (mostly in CUDA) to use vector based processing and high bandwidth of modern GPUs.

ANTON MKS **CODE**

[gopli: MySQL Backup Between Remote or Local Hosts, Written in Go](#)

SEIJI TAKAHASHI **CODE**