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## Database Weekly

Issue 175 — October 6, 2017

**Streams: A New General Purpose Data Structure for Redis** — The creator of Redis looks at the use cases for streams and how they're going to become available in Redis.

SALVATORE SANFILIPPO

**Scaling GitLab's Database** — GitLab is a popular git repository host, and this is an in-depth look at the challenges faced scaling their Postgres setup.

YORICK PETERSE

**A Journey From Redis 2 to Redis 3 Without Site Downtime** — How a major gaming site managed to upgrade its Redis databases from version 2 to 3 without any downtime.

CRAIG STEWART

**Linux cloud hosting starting at 1GB of RAM for \$5/mo** — Get a Linode server up and running in seconds. Simply choose your plan, distro and location and you're ready to deploy your server. Get \$20 credit on a new account.

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**10 Cool SQL Optimisations That Do Not Depend On The Cost Model** — A collection of simple optimisations that can be implemented purely based on metadata (e.g. constraints) and the query itself.

JOOQ

**PostgreSQL 10 Released** — The popular open source database includes native logical replication, declarative table partitioning, and improved query parallelism. [More on what's new here](#).

POSTGRES.ORG

**Introducing Cloud Firestore: Google's New Document Database for Apps** — A fully-managed NoSQL document database for mobile and web app development.

ALEX DUFETEL

**Technical Product Management Like a Boss: Craig Kerstiens** — An interesting interview with Craig Kerstiens of Citus Data (who also curates [our Postgres newsletter](#)) on why every product manager should learn SQL, how Citus Data is taking advantage of some new PostgreSQL features, and more.

MAX MAUTNER **VIDEO**

**MongoDB on Building a Global Database-as-a-Service** — The product manager of MongoDB's *Atlas* hosted service briefly explains how it was built on AWS.

ANDREW DAVIDSON **VIDEO**

**One Million Tables in MySQL 8.0** — Creating one million tables in MySQL and testing the performance.

ALEXANDER RUBIN

**Serverless Database Computing with Azure Functions and Cosmos DB** — Learn how Azure Cosmos DB (MS's globally distributed multi-model database) and Azure Functions can be used together to create event-driven serverless computing apps.

MICROSOFT AZURE

**HoTTSQL: Proving Query Rewrites with Univalent SQL Semantics** — A look at a paper covering a technique for proving that rewritten, optimized SQL queries maintain the semantics of the original query.

THE MORNING PAPER

**Amazon EC2 Instances Now Support Microsoft SQL Server 2017**

AMAZON WEB SERVICES

**New Azure VM Images for SQL Server 2017 on Linux and Windows**

MICROSOFT AZURE

**Alibaba Is Leading A \$27M Investment in Open Source Database Startup MariaDB**

JON RUSSELL

**Performance Analytics for Amazon Redshift** — When it comes to Amazon Redshift, there's an elephant in the room. Everyone is struggling.

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**Migrating a SQL Server Database to a MySQL-Compatible Database Engine**

AMAZON WEB SERVICES

**Preprocessing Data in Amazon Kinesis Analytics with AWS Lambda**

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**Different I/O Access Methods in Linux and What We Chose for ScyllaDB**

AM KIVITY

**Humongous.io: A universal admin interface for MongoDB** — Generate an enterprise grade admin interface for your MongoDB database with support for joins, smart forms & charts.

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**memcache-info: A Simple Way to Show Information About Memcache**

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