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## Database Weekly

Issue 115 — July 29, 2016

### FEATURED

**Why Uber Engineering Switched from Postgres to MySQL** — Uber Engineering explains the technical reasoning behind its switch in database technologies *from* Postgres *to* MySQL - an uncommon direction to migrate in.

EVAN KLITZKE

**'Amazon RDS SQL Server Just Changed Everything.'** — You can now take native SQL Server database backups from your RDS instances and store them in an Amazon S3 bucket.

BRENT OZAR

**Democratizing Databases** — With a new tool, any competent spreadsheet user can construct custom database interfaces.

MIT NEWS

**The importance of loose coupling in REST API design** — You should never develop a REST API for any specific application. The best approach is to build a REST API platform that can be used and reused in a flexible manner for general-purpose application development.

DREAMFACTORY **SPONSORED**



**Real-World Redis Tips** — Use a connection pooler, give your clients names, set an appropriate key eviction policy, and more.

HEROKU

**It's The Data, Stupid: Why Database Admins Are More Important Than Ever** — Specialized databases, cloud, and DevOps expand, not eliminate, role of the DBA.

SEAN GALLAGHER

**Apache Spark 2.0 Released** — Spark 2.0 focuses on significantly improved SQL support and the unification of the DataFrame and Dataset APIs. The next-gen Tungsten engine also compiles queries to make Spark 2.0 up to 10x faster than 1.x. [Release notes here.](#)

REYNOLD XIN

### JOBS

**Get 5+ Engineering Job Offers in 1 Week** — With Hired, companies apply to hire you - get salary and equity offers before you interview from companies like Facebook, Postmates, & Square

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## IN BRIEF

### [Amazon Elasticsearch Service Now Supports Elasticsearch 2.3](#)

AMAZON WEB SERVICES **NEWS**

### [A Complete List of New Features in MySQL 5.7](#)

MORGAN TOCKER **NEWS**

[Free t-shirt when you deploy RethinkDB in July](#) — This month only we're giving away a free limited edition tshirt when you deploy RethinkDB on Compose. All deployments are free for 30-days.

COMPOSE **NEWS** **SPONSORED**

### [Creating Ranked Position Time Series with SQL](#)

PERISCOPE

[How to Deploy a Highly-Available MongoDB Replica Set on AWS](#) — A comprehensive guide to setting up your own cluster.

ELAD NAVA

### [5 Ways to Improve Performance of Spark Applications](#)

LEWIS GAMN

### [How Adding a UNIQUE Constraint on a One-to-One Relationship Helps Performance](#)

JOQQ

[How to Build An iOS Application with SQLite and GRDB.swift](#) — How Swift protocols and immutability impact database accesses.

GWENDAL ROUÉ

[Rolling Retention Done Right in SQL](#) — 'Rolling retention' is a key business metric SaaS companies, in particular, measure.

KIYOTO TAMURA

### [PostgreSQL, Backups and Everything You Need to Know](#)

COMPOSE ARTICLES

### [The Road to CouchDB 2.0](#)

COUCHDB

### [3 Tips for Selecting The Right Database for Your App](#)

CLOUD 66

### [Why We Chose Aerospike Over Other Databases](#)

AMEY PATIL

### [6 Reasons You Shouldn't Use Cron to Schedule Your MapReduce and Spark Jobs](#)

MATTHEW RATHBONE

[Splitting ACID: Towards RISC-Style Database Systems](#) — An interesting idea of splitting up ACID properties into smaller parts.

JOY ARULRAJ

### [A Postgres Perspective on MongoDB](#)

SHAUN M. THOMAS

[Graph Databases: Dataflow vs. Traditional Models](#) — Thoughts on using differential dataflow to implement database functionality such as lookups and transactions.

DUBEY, ESCRIVA, GÜN SIRER

[Way Better Log Management.](#) — Move beyond ssh & grep: Search 100s of GBs/sec right from your browser.

SCALYR **TOOLS** **SPONSORED**

[Deform.io: A Very Simple Database-as-a-Service](#)

DEFORMIO **TOOLS**

[Fieldtop: Finds Near-Overflow Columns in MySQL Databases](#) — There's [more info here](#).

STEFAN CORNELIU PETREA **TOOLS**

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