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## Database Weekly

Issue 159 — June 16, 2017

**What's New in SQL:2016** — The new ISO standard introduces row pattern recognition, JSON, listagg and many other features. Unsurprisingly, support is currently quite low but should increase over time.

MARKUS WINAND

**SQLite 35% Faster Than The Filesystem?** — A look at how SQLite can be both faster and more space efficient when dealing with small blobs versus the standard filesystem. [Related Hacker News discussion.](#)

SQLITE

**How to Optimize Cassandra Database Performance** — 3 ways to ensure that your Cassandra workloads are operating at peak efficiency

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**SystemML, the 'SQL for Machine Learning,' Is Now a Top-Level Apache Project** — Developed to provide the ability to scale data analysis from a small laptop to large clusters without the need to rewrite the entire codebase.

SUSAN HALL

**Amazon Aurora Introduces Database Cloning Capabilities**

AMAZON WEB SERVICES

**TimescaleDB Focuses on Query Power and Scale**

THE NEW STACK

**How to Document SQL Server Database Objects**

JEFFERSON ELIAS

**When to Use Bind Values and When to Use Inline Values in SQL**

LUKAS EDER

**How to Migrate from SQL to MongoDB** — Learn why today's most innovative companies are migrating to MongoDB.

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**The Different Types of NoSQL Databases** — Key-value stores, document stores, column stores, and graph databases.

ROOPENDRA VISHWAKARMA

**Mosaic: Processing A Trillion-Edge Graph On A Single Machine** — A look at an interesting architecture: *“Unless your graph is bigger than Facebook’s, you can process it on a single machine.”*

ADRIAN COLYER

**Using UUID or GUID as Primary Keys? Be Careful** — You can use UUIDs as the primary key to avoid certain scaling problems, but should you? Tom proposes an alternative.

TOM HARRISON JR

**How to Properly Monitor Elasticsearch**

ERIC BERNSEN

**SQL Server 2016 Row Level Security In Action**

GAVIN DRAPER

**What You Need to Know about SQL Server's Distinct Windowed Aggregate Calculations**

ITZIK BEN-GAN

**SQL Server 2017 Graph Data Features In Action**

GAVIN DRAPER

**Running SQL Queries Against Baby Names from Social Security Card Applications**

DENIS GOBO

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**oi: Blazingly Fast Ordered Data Intersection Tool** — Grep request logs in the blink of an eye.

MARCIN TOJEK **TOOLS**

**Soundwave: A Configuration Management Database**

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