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#214 — JULY 27, 2018

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## Database Weekly

```
1 CREATE MODEL numbikes.model
2 OPTIONS
3 (model_type='linear_reg', labels=['num_trips']) AS
4 WITH bike_data AS
5 (
6 SELECT
7 COUNT(*) as num_trips,
```

**Machine Learning in Google BigQuery** — [BigQuery ML](#) extends BigQuery with the ability to build machine learning models on massive structured or semi-structured datasets using the same SQL data analysts/developers are familiar with.

GOOGLE

**An Introduction to Elasticsearch SQL with Practical Examples** — Released just over a month ago, [Elasticsearch 6.3](#) added initial SQL support to the popular search-oriented document database. Here we see how that works in practice.

DALE MCDIARMID

**5 Key Decisions to Make When Moving Oracle Workloads to the Cloud** —

This EDB Tech Guide covers five key decisions you'll need to make to navigate your choices and enable your success.

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**The Evolution of Application Data Caching at Netflix: From RAM to SSD** — Netflix was storing petabytes of data in a memcached-based cache but using SSDs is significantly cutting costs while still getting the work done.

NETFLIX TECHNOLOGY BLOG

**The Best Database-as-a-Service Solutions of 2018** — A high level comparison of major database service providers including Microsoft Azure, MongoDB Atlas, AWS, Google, IBM and SAP.

PAMBAKER (PC MAGAZINE)

**PDF: How Postgres's SQL Dialect Stays Ahead of Its Competitors** — Yes, it's a slide deck, but it's a Markus Winand slide deck and full of examples. I found a possibly unofficial [video of the associated talk](#) if you're curious.

MARKUS WINAND

**Tuning InnoDB Primary Keys** — The choice of good InnoDB primary keys is a critical performance tuning decision on MySQL.

YVES TRUDEAU (PERCONA)

**Introduction to Failover for MySQL Replication**

SEVERALNINES

[MongoDB 4.0 Is Now Generally Available. Try It Now on MongoDB Atlas](#) — It's now even easier to address a complete range of use cases with MongoDB.

MONGODB **SPONSOR**

[An Introduction to Azure Cosmos DB Emulator for Building Apps Locally](#) — Azure Cosmos DB is Microsoft's multi-model cloud database platform but you can set up a local emulator to make your app development process easier without being connected to Azure.

SUHAS PANDE

[UUIDs and Compressibility](#) — Universally unique identifiers, or UUIDs, are often used for database primary keys in scenarios where coordination of persistence is either impossible or impractical. But.. *“using UUIDs instead of naturally occurring composite keys introduces randomness where there could often be order.”*

RICHARD STARTIN

► [Building a Petabyte Scale Warehouse in BigQuery](#)

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[18 Places, Books, and Pages to Learn SQL](#) — A variety of sources for online training and tutorials to up your SQL skills.

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