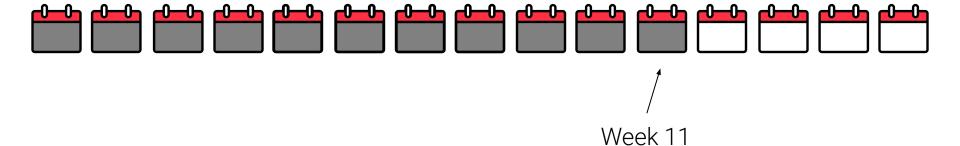


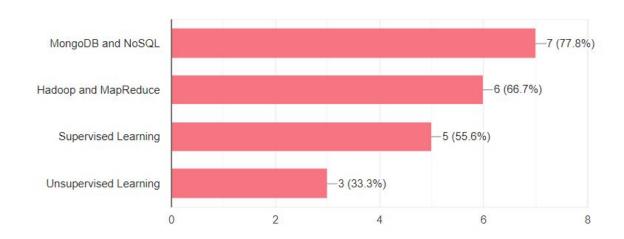
Business Technology Group

NoSQL with MongoDB April 8th, 2019



Which topic(s) are you most interested in learning about next?

9 responses



This Week in Business Technology

"The era of self-regulation for online companies is over."

- Jeremy Wright, the U.K.'s digital secretary

TECH

Facebook, Google in Crosshairs of New U.K. Policy to Control Tech Giants

London's proposal for new social-media regulator is one of the broadest yet in a larger movement by countries to assert control over tech giants

By Sam Schechner and Parmy Olson

Updated April 8, 2019 5:29 a.m. ET

The U.K. government plans to create a regulatory body to force the removal of harmful content from the internet, one of the most far-reaching legislative proposals from a host of countries trying to put a tighter leash on global technology companies.

The U.K. proposal, disclosed in a policy paper published early Monday, aims to create a new legal obligation for companies including Facebook Inc. and Alphabet Inc.'s Google to take "reasonable and proportionate" action on a gamut of illegal or potentially harmful content published...

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TECH

Facebook Looks to Build Underwater Ring Around Africa

Plans for undersea cable, dubbed 'Simba,' are aimed at lowering its bandwidth costs and strengthening link to African market

By Drew FitzGerald

April 7, 2019 11:00 a.m. ET

Facebook Inc. is circling Africa. Literally.

The company is in talks to develop an underwater data cable that would encircle the continent, according to people familiar with the plans, an effort aimed at driving down its bandwidth costs and making it easier for the social media giant to sign up more users.

The three-stage project, named...

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NoSQL with MongoDB



















Why NoSQL?





Availability







NoSQL

- Availability
- Scalability







NoSQL

- Availability
- Scalability
- Flexibility







Redis is an open source (BSD licensed), in-memory data structure store, used as a database, cache and message broker.

Redis has built-in replication, Lua scripting, LRU eviction, transactions and different levels of on-disk persistence, and provides high availability via Redis Sentinel and automatic partitioning with Redis Cluster.









and I would like to thank her for her service....



....I am pleased to announce that Kevin McAleenan, the current U.S. Customs and Border Protection Commissioner, will become Acting Secretary for @DHSgov. I have confidence that Kevin will do a great job!



Very simply, a graph database is a database designed to treat the relationships between data as equally important to the data itself.

It is intended to hold data without constricting it to a pre-defined model.

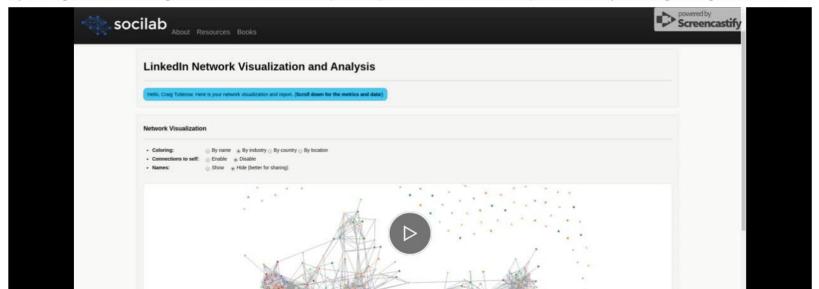
Instead, the data is stored like we first draw it out – showing how each individual entity connects with or is related to others.



Farewell Socilab. Thank you for your service. socilab.com was an educational site used to teach students about social capital by visualizing and analyzing their LinkedIn network in the browser. The site was scheduled to lose API access on May 1st. Due to technical changes happening to the API later today, the site will stop working earlier than I expected. Rather than implement a temporary fix, I've decided to bring the site to a close effective today. For now, I'd like to express my gratitude to the over 90k LinkedIn members who logged in and used the site, as well as everyone who contributed to it.

Social capital remains an important differentiator in the trajectory of careers and organizations. Researchers and educators will continue to advance and broaden our understanding of the many different ways to attain, use and share it.

My focus right now is on building data science tools and research partnerships that will enable us to develop and share many more insights using LinkedIn data.



- Availability
- Scalability
- Flexibility



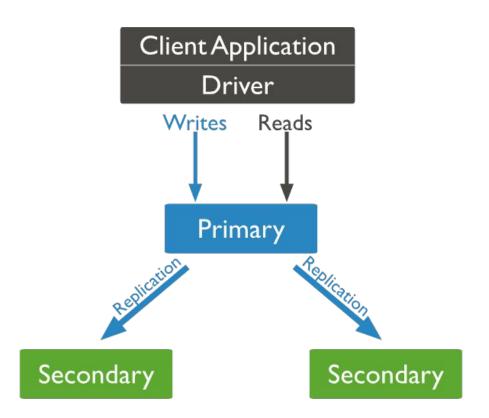
- Availability
- Scalability
- Flexibility







NoSQL

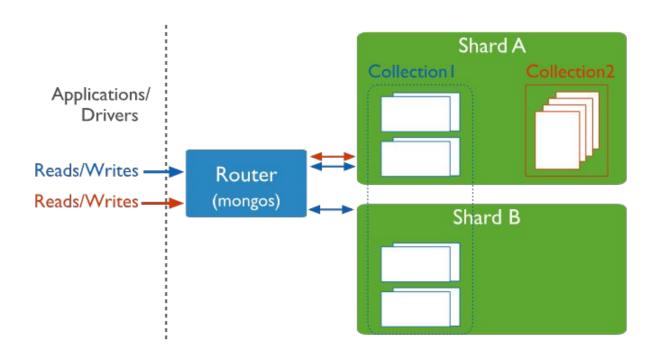


- Availability
- Scalability
- Flexibility









- Availability
- Scalability
- Flexibility







Data Models: Relational to Document

Relational

Person: Sumame First_Name City Miller Paul Landon Alvaro Valencia. no relation Ortega Urs Huber Blanc Gaston Paris Bertolini Fabrizio Rom Car_ID Pers_ID Model Value Year Bentley 1973 100000 Rolls Royce 1965 330000 1993 Peugeot Ferrari 2005 150000 Renault 1998 2000 Renault 2001 7000 1999 Smart

MongoDB Document

```
{
  first_name: 'Paul',
    surname: 'Miller'
  city: 'London',
  location: [45.123,47.232],
  cars: [
    { model: 'Bentley',
      year: 1973,
      value: 100000, ... },
    { model: 'Rolls Royce',
      year: 1965,
      value: 330000, ... }
  ]
}
```

- Availability
- Scalability
- Flexibility







• Flexibility vs. Integrity

NoSQL SQL

Interactive Demo

tinyurl.com/mongodb-web-shell

tinyurl.com/btg-s19-nosql