scalable SQL

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SQL VS. NOSQL

Is SQL obsolete?
Should SQL be replaced with NoSQL?
Scalability

- Lots of applications need a scalability

- Scalability in terms of:
  - user load
  - data load
  - computational
  - agility

SQL!

e-commerce

LinkedIn
Challenges:

1. Consistency across partition
2. Availability during rollout phase
3. Higher probability of node failure
Database Architecture
  ○ Service-oriented (Functional/Data Partitioning)
  ○ — Each leaf uses relational database
  ○ — Global consistency relaxing:
    ■ — Atomicity
    ■ Strong consistency
    ■ — Isolation
Scale with SQL?

Myspace Architecture

—Image Source:
● Relational Database or NoSQL?
  ○ Application architecture
  ○ Infrastructure
  ○ Additional services
THANK YOU!