

NoSQL Databases

Chapter 2 is required to read, others are optional.

- motives and rationales directing NoSQL movement (chapter 2)
- common concepts, techniques and patterns (chapter 3)

Questions & discussions

- reasons to develop and use NoSQL
- Myth of Effortless Distribution and Partitioning of Centralized Data Models
- Movements in Programming Languages and Development Frameworks
- Requirements from Cloud Computing

large scale (web) applications nowadays can utilize systems built from scratch with scalability, non-blocking and asynchronous database I/O, handling of huge amounts of data and automation of maintenance and operational tasks in mind.

- The Eight Fallacies of Distributed Computing
- Michael Stonebraker's research
- 'polyglot persistence'
- Classifications and Comparisons
- Basic Concepts, Techniques and Patterns
 - The CAP-Theorem
 - ACID vs. BASE