The Birth of NoSQL Not Only SQL

- The latest attempt to overthrow the relational model's dominance
- Driving forces
 - A need for greater scalability
 - A widespread preference for free and open source software
 - Specialized query operations
 - A desire for a more dynamic and expressive data model

Some challenges by relational mode why NoSQL?

- Impedance mismatch
 - the Object-Relational mismatch between
 - the objects in the application code and
 - the database model of tables, rows, and columns
 - ORM (Object-Relational Mapping) frameworks as a translation layer
 - e.g., ActiveRecord, Hibernate
 - helpful, but the difference cannot be hidden completely
- Many-to-One & Many-to-Many relationships
 - Normalization removes duplication, but introduces many-to-one mapping