

The Relational Empire

An eternity in computing history

- Business data processing
 - transaction processing (banking transactions, stock-keeping in warehouses)
 - batch processing (payroll, invoicing, reporting)
- Relational model
 - proposed by Edgar Code in 1970
 - relations + tuples -> a clean interface to hide all implementation details
 - RDBMS, SQL -> generalize very well in diverse purposes

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