



Building Dynamic Market Places Using HyperQueries

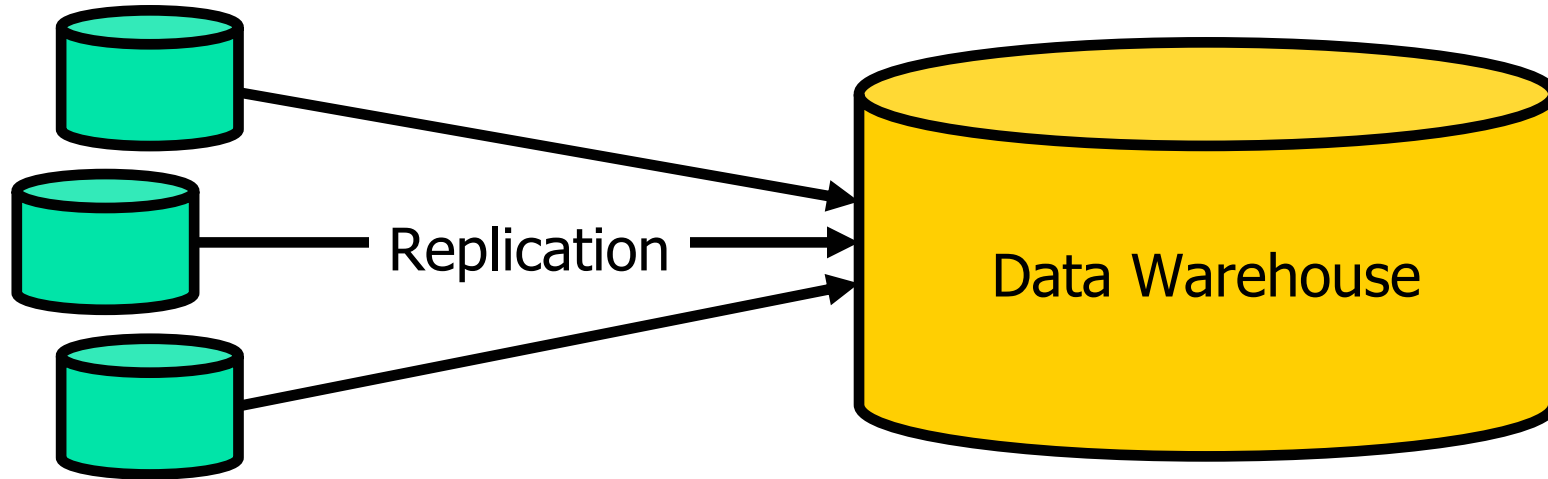
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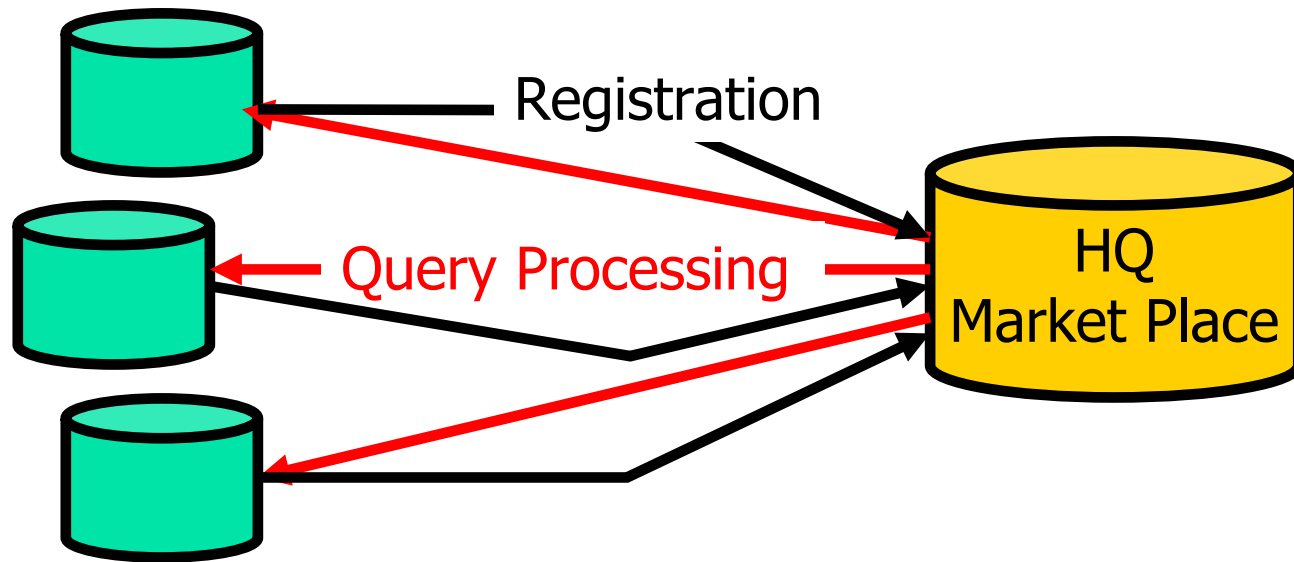
Traditional Virtual Market Places



Traditional techniques

- Replicate data in a central data warehouse
- Severe problems
 - Security and privacy violations
 - Coherence problems
 - Schema integration problems
 - Fixed query operators

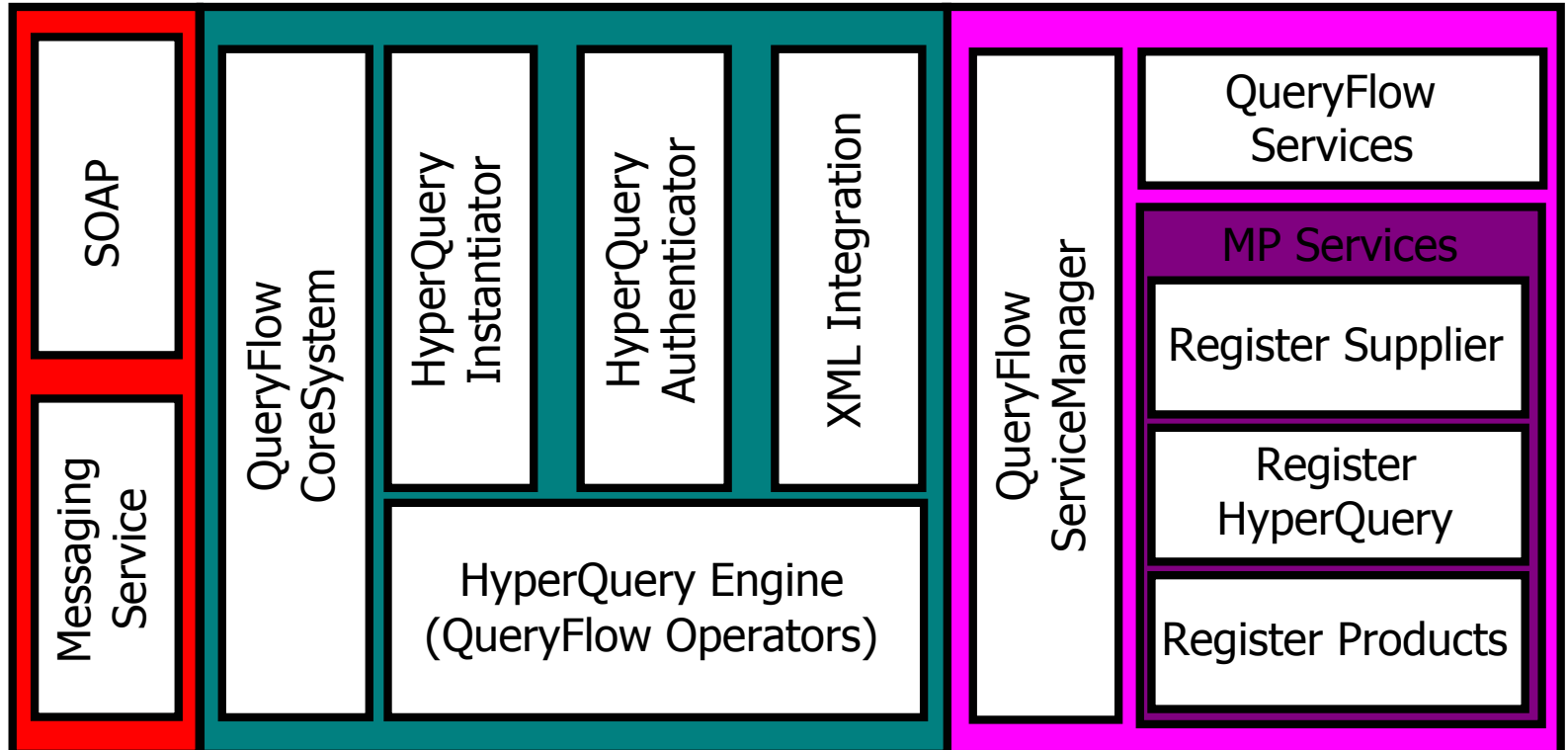
HyperQuery Market Places



HyperQuery framework

- Market place is intermediary
- Distribute query processing along allocation schema of data
- Objects & queries flow through the WWW
- Scalability

Architecture



ObjectGlobe:

- **Distributed Query Processor**
- **Basic Security**

Demonstration

- Example market place
- Customers join the market place
- Companies join the market place
- Query processing

- **ObjectGlobe: Ubiquitous query processing on the Internet**
Braumandl et.al. VLDBJ 2001
- **HyperQueries: Dynamic Distributed Query Processing on the Internet**
Kemper, Wiesner. VLDB 2001
- <http://www.db.fmi.uni-passau.de/projects/QueryFlow>