

XML AND DATABASES: LATEST FAD or NEW DISRUPTIVE TECHNOLOGY

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TALE OF TWO PARADIGMS (What a difference a year makes...)

- XML
 - Un/semi-structured data
 - Data transfer & exchange
 - Self describing content
 - Clean-slate implementations
 - Content management ...
- SQL
 - Structured data
 - Data storage & retrieval
 - RDMS enforced constraints
 - 20+ years of infrastructure
 - OLTP...

XML AND SQL: Both Standards Based & Vendor Neutral

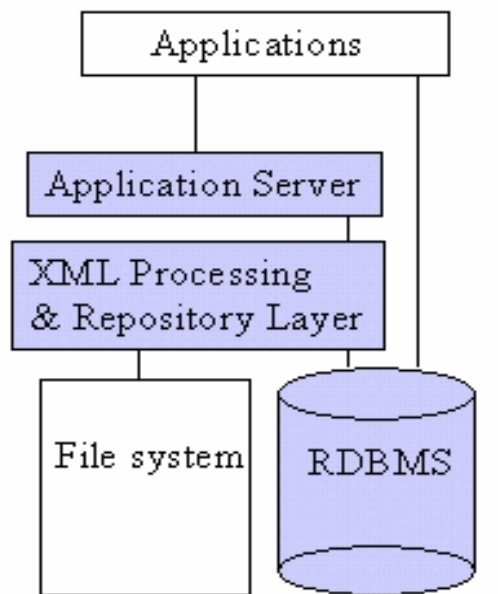
WWW10: XML vs. SQL => Evolution Not Revolution

WWW2002: XML Only Transport vs. Everything is XML

Convergence/Co-existence of XML and SQL

- Two Metaphors: One Data Store => Native XML in database
 - XMLType
 - XML Schema support
 - DOM fidelity
 - Xpath search in database
 - XML Repository
- XML SQL Duality
 - Access XML data using SQL
 - Access SQL data using XML
- Performance and functionality benefits including:
 - Eliminating intermediate processing layers
 - Using SQL constraints on XML data

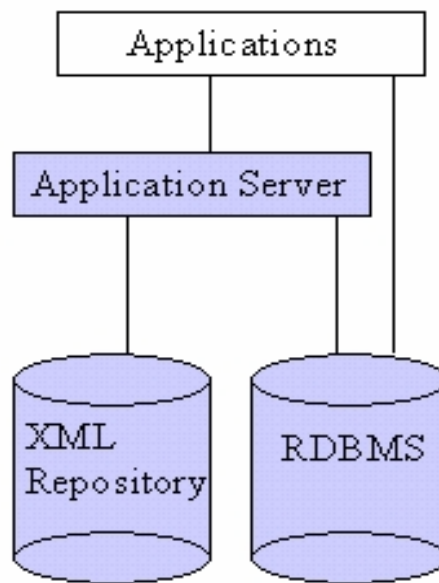
Non-Native XML Processing



XML Document Content

Structured Data & Metadata

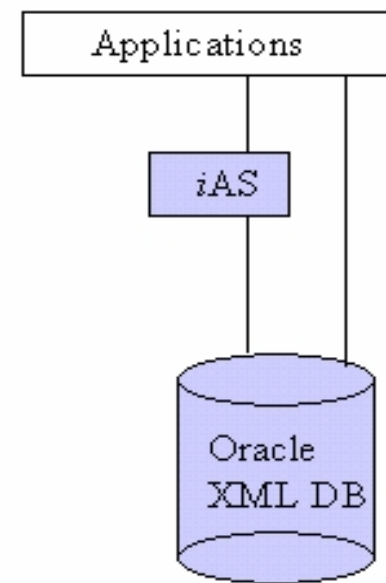
Separate Data & Content Servers



XML Document Content & Metadata

Structured Data

Oracle XML DB



XML Document Content, Structured Data, Metadata

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