

Data Virtualization for Agile Business Intelligence Systems



Rick van der Lans

31 May 2012,
29 November 2012,
London

Fee £695 + VAT
Group Booking & Multiple
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Overview

The way decisions are made in organisations is changing. The biggest change is that they have to react faster. Managers increasingly find they have less time to make decisions after business events occur. The consequence is that it must be possible to change existing reports faster, and that reports must be developed more quickly. From this we can include that our BI systems have to be more flexible, more agile. In addition, new forms of reporting and analytics are being requested by the user community, such as operational analytics, 360° reporting, exploratory analysis, deep and big data analytics, self-service BI, and semi-structured and unstructured data analytics. All these new requirements demand that BI systems are developed in a more agile way. One of the technologies making this possible today is data virtualization.

This one day seminar focuses on data virtualization when deployed in business intelligence systems. The advantages of data virtualization are explained; products are compared, application areas are discussed; and the relationship with related topics, such as MDM, data governance, and SOA are also discussed.

Learning Objectives

- How business intelligence systems could benefit from data virtualization
- How to select the right business intelligence architecture
- How to migrate to a more agile business intelligence system
- How data virtualization products work
- How to avoid well-known pitfalls
- Learn from real-life experiences with data virtualization

Seminar Outline

Introduction to data virtualization

- What is data virtualization?
- Differences between abstraction, data federation and data integration
- Open versus closed data virtualization servers
- Product overview, including those of Composite, Denodo, IBM, Informatica, Information Builders, Queplix and RedHat

The changing world of data warehousing and business intelligence

- The new forms of business Intelligence
- The role of the data warehouse
- Do we still need staging areas, data marts, cubes and operational data stores
- ETL for data transformation and data integration
- What is a business intelligence architecture?
- Disadvantages of classic business intelligence systems

Under the hood of a data virtualization server

- Defining virtual tables, foreign tables and mappings
- Exposing virtual tables
- Stacking virtual tables
- Importing non-relational Data, such as XML documents, web services, NoSQL databases – big data, dimensional cubes and unstructured data
- Impact analysis and lineage
- Running transactions – updating data

Caching for performance and scalability

- Caching of a virtual table for improving query performance, creating consistent report results, or minimizing interference on source systems
- Differences between full refreshing, incremental refreshing, live refreshing, online refreshing and offline refreshing

Cache replication for scalability

- Cache replication for scalability
- Query optimization techniques
- Differences between the optimizer of a database server and the one of a data virtualization server
- The ten stages of query processing

Audience

- Business Intelligence Specialists
- Data Warehouse Designers
- Business Analysts
- Technology Planners
- Technical Architects
- Enterprise Architects
- IT Consultants
- IT Strategists
- Information and Data Analysts
- Database Developers
- Database Administrators
- Solutions Architects
- Data Architects
- IT Managers

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Presenter



Rick van der Lans

is an independent consultant, author and lecturer specialising in business intelligence, data warehousing and database technology. He is the Managing Director of R20/Consultancy. Rick has advised many large companies worldwide on defining their data warehouse architectures. He is the chairman of the European BI and Data Warehousing Conference (organised annually in London), and a columnist for two major newspapers in the Benelux, and he writes regularly for the B-eye-Network. Rick has taught this seminar successfully to hundreds of delegates worldwide.

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Seminar Timetables

08.30 – 09.00 Registration (first day only) 09.00 – 12.30 Event
12.30 – 13.30 Lunch 13.30 – 17.00 Event

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