CH07 - Technology and Product Architecture

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AGENDA

- Overview of Technology and Product Architecture
- Architectural Components
- Advancements in BI Technologies
- Best Practices
- Resource Management
- Summary

ผู้ช่วยศาสตราจารย์ ดร.สุรชาติ บัวชุม

Overview of Technology and Product Architecture

Overview of Technology and Product Architecture:

- **Definition**: The chapter defines technology and product architecture within the context of BI solutions, emphasizing their importance in ensuring the success and sustainability of BI implementations.
- **Evaluation Criteria**: It highlights the key criteria to consider when evaluating different technology and product architectures, including scalability, flexibility, performance, and compatibility with existing systems.

Architectural Components

Architectural Components:

- Data Integration Technologies: The chapter covers the fundamental technologies required for data integration, such as ETL (Extract, Transform, Load), ELT (Extract, Load, Transform), and various data transport services.
- Data Storage Solutions: Different types of data storage solutions are discussed, including data warehouses, data marts, and operational data stores. It also introduces the concept of hybrid dimensional-normalized models.
- BI Tools and Applications: An overview of various BI tools and applications is provided, explaining their roles in data visualization, reporting, and analytics.

Advancements in BI Technologies

Advancements in BI Technologies:

- **Emerging Trends**: The chapter explores emerging trends and advancements in BI technologies, such as cloud-based BI, big data analytics, and real-time data processing.
- **Impact on BI Solutions**: It discusses how these advancements can improve productivity, quality, and time to market for BI solutions.

Best Practices

Best Practices:

- **Architectural Best Practices**: The chapter outlines best practices for designing and implementing robust technology and product architectures, including iterative development, prototyping, and continuous feedback from BI consumers.
- **Integration with Business Strategies**: It emphasizes the importance of aligning technology and product architectures with the overall business strategies to ensure that BI solutions deliver actionable insights and add value to the organization.

Resource Management

Resource Management:

- **Resource Allocation**: Guidance on effectively allocating resources, including human, technological, and financial resources, to support the development and maintenance of BI architectures.
- **Vendor Selection**: Criteria for selecting vendors and products are discussed, along with strategies for managing vendor relationships and ensuring long-term support and scalability.

Summary

CH7 provides a detailed roadmap for evaluating and implementing technology and product architectures in BI projects. By following the outlined best practices and considering the key criteria, organizations can develop scalable, flexible, and efficient BI solutions that align with their business goals.

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