

TDWI Data Integration Principles and Practices: Creating Information Unity from Data Disparity

Course Outline

Module 1 - Data Integration Strategy

- What Is Data Integration Strategy?
 - Strategy Defined
 - Data Integration Strategy Defined
- Elements of Data Integration Strategy
 - Data Consumers and Data Sources
 - Data Integration Processes
 - Data Stores
 - Access and Navigation
 - Control Objectives
 - The Big Picture
- Creating Data Integration Strategy
 - Goals and States
 - Analysis
- Applied Data Integration Strategy
 - Planning and Projects
 - Data Governance

Module 2 - Data Integration Architecture

- What Is Data Integration Architecture?
 - Architecture Defined
 - Data Integration Architecture Defined
- Integration Patterns
 - Methods of Information Sharing
 - Shared Databases and Replication
 - Gateways and Portals
 - Entity Aggregation
 - Data Services
 - Data Services & Messaging
 - Publish and Subscribe, File Transfer
 - Virtualization
 - Virtualization and Federation
- Architecture Concepts and Components
 - Constructs in Data Integration Architecture
 - Reference Architecture

Module 3 - Creating Data Integration Architecture

- Data Sources
 - Source Systems
 - Structural Variations
 - Source Data Locations and Technologies
- Data Flow
 - Data Acquisition

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- Data Integration Functions
- Data Stores
- Data Integration Methods
- Data Delivery
- Metadata Flow
- Data Consumers
 - People
 - Applications
 - Requirements
- Architecture Design and Definition
 - Define the End Points
 - Structure the Middle
 - Define Data Access
 - Architecture Validation
- Data Integration Approaches
 - Many Types and Levels of Integration
 - ETL/ELT
 - Streaming
 - Virtualization
 - Federation
 - Big Data Integration
 - Self-Service Integration
 - Cloud Integration
 - Hybrid Integration

Module 4 - Using Data Integration Architecture

- Systems and Data Integration Architecture
 - Existing Systems
 - New Systems
- Development and Data Integration Architecture
 - Requirements Analysis
 - Design and Construction
 - Testing
- Management and Data Integration Architecture
 - Management and Governance
 - Change Management
 - Support and Operations
- Next Steps
 - What Will You Do Next?