



Best Practices in Data Resource Management

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Module 0. About the Course (4 min)

Module 1. Introduction (24 min)

- *The Current Situation*
 - Data, Information, Knowledge
 - Business Information Demand
 - Disparate Data Defined
 - Data Resource Drift
 - No Status Quo
 - No Silver Bullets
 - The Solution
- *Halting Data Disparity*
 - Quality Defined
 - Bad Habits
 - Good Practices
 - Problems and Solutions
 - 10 Sets of Best Practices

Module 2. Architecture (92 min)

- *Data Names*
 - Problem
 - Bad Habits
 - Solution
 - Formal Data Naming Taxonomy
 - Data Name Examples
 - Data Subject Name Examples
 - Data Characteristic Name Examples
 - Data Characteristic Variation Name Examples
 - Data Naming Vocabulary
- *Data Definitions*
 - Problem
 - Bad Habits
 - Solution
 - Good Practices
 - Data Characteristics Definition
 - Data Code Definition Examples
 - Fundamental Data Definitions
 - Basic Principle
- *Data Structures*
 - Problem
 - Bad Habits
 - Solution
 - Data Structure Components
 - Data Structure Example
 - Data Subject Example
 - Basic Principles
 - Proper Detail for Audience
 - Five Schema Concept
 - Three Tier Concept
 - Strategic and Tactical Data Models



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- Detail Data Model
- Combined Concept
- *Data Integrity Rules*
 - Problem
 - Bad Habits
 - Solution
 - Data Rule Concept
 - Rule Names and Notation
 - Data Integrity Rule Types
 - Data Value Rules
 - Conditional Data Value Rules
 - Data Structure Rules
 - Conditional Data Structure Rules
 - Data Derivation Rules
 - Data Retention Rules
 - More Good Practices
 - Other rule Specifications
 - Data Accuracy
- *Data Documentation*
 - Problem
 - Bad Habits
 - Solution
 - “Data Resource Data” Concept
 - Data Resource Data Status
 - Data Resource Data Capture
 - Data Resource Data Aspects
 - More Good Practices
 - And More Good Practices
- *Summary*

Module 3. Governance (54 min)

- *Data Orientation*
 - Bad Habits
 - Solution
 - Good Practices
 - Three Tier Concept
 - Expanded Five Schema
 - Five Tier Five Schema
 - Five Tier Five Schema Concept
 - Schema Groupings
 - More Good Practices
 - Dimensional Data Model Examples
 - Problems with Dimensional Data Model
 - Rotational Data Model
- *Data Availability*
 - Problem
 - Bad Habits
 - Solution
 - Good Practices
- *Data Responsibility*
 - Problem



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- Bad Habits
- Solution
- Authorized Data Stewardship
- More Good Practices
- *Data Vision*
 - Problem
 - Bad Habits
 - Solution
 - Wider Scope
 - More Good Practices
- *Data Recognition*
 - Problem
 - Bad Habits
 - Solution
 - Good Practices
 - More Good Practices
 - And More Good Practices
- *Summary*

Module 4. Conclusion (8 min)

- *Data Management Problems*
- *Solutions Approach*
- *Questions*
 - Current Situation
 - Architecture
 - Governance
 - Approach
- *Presenter's Bibliography*