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
o Detail Data Model
o Combined Concept

- Data Integrity Rules
  o Problem
  o Bad Habits
  o Solution
  o Data Rule Concept
  o Rule Names and Notation
  o Data Integrity Rule Types
  o Data Value Rules
  o Conditional Data Value Rules
  o Data Structure Rules
  o Conditional Data Structure Rules
  o Data Derivation Rules
  o Data Retention Rules
  o More Good Practices
  o Other rule Specifications
  o Data Accuracy

- Data Documentation
  o Problem
  o Bad Habits
  o Solution
  o “Data Resource Data” Concept
  o Data Resource Data Status
  o Data Resource Data Capture
  o Data Resource Data Aspects
  o More Good Practices
  o And More Good Practices

- Summary

Module 3. Governance (54 min)

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

- Data Availability
  o Problem
  o Bad Habits
  o Solution
  o Good Practices

- Data Responsibility
  o Problem
DQ-03: Best Practices in Data Resource Management

- 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