Data Modeling Training Course Content

SECTION1: INTRODUCTION TO LOGICAL DATA MODELING

- ➢ Importance of logical data modeling in requirements
- ➢ When to use logical data models
- ➢ Relationship between logical and physical data model
- ➢ Elements of a logical data modelRead a high-level data model
- ➢ Read a high-level data model
- ➢ Data model prerequisites
- ➢ Data model sources of information
- ➢ Developing a logical data model

SECTION2: PROJECT CONTEXT AND DRIVERS

- ➢ Importance of well-defined solution scope
- ➢ Functional decomposition
- ➢ Context-level data flow diagram
- ➢ Sources of requirements
- ➢ Data interpretation Mechanism
- ➢ Class diagrams
- ➢ Other documentation
- ➢ Transactional business systems
- ➢ Business intelligence and data warehousing systems
- ➢ Integration and consolidation of existing systems
- ➢ Maintenance of existing systems
- ➢ Enterprise analysis
- ➢ Commercial off-the-shelf application

SECTION3: CONCEPTUAL DATA MODELING

- ➢ Discovering entities
- ➢ Defining entities
- ➢ Documenting an entity
- ➢ Identifying attributes
- ➢ Distinguishing between entities and attributes

SECTION4: CONCEPTUAL DATA MODELING-IDENTIFYING RELATIONSHIPS AND BUSINESS RULES

- ➢ Model fundamental relationships
- ➢ Cardinality of relationships
- ➢ One-to-one
- ➢ One-to-many
- ➢ Many-to-many
- ➢ Is the relationship mandatory or optional?
- ➢ Naming the relationships

SECTION5: IDENTIFYING ATTRIBUTES

- ➢ Discover attributes for the subject area
- ➢ Assign attributes to the appropriate entity
- ➢ Name attributes using established naming conventions
- ➢ Documenting attributes

SECTION6: ADVANCED RELATIONSHIPS

- ➢ Modeling many-to-many relationships
- ➢ Model multiple relationships between the same two entities
- ➢ Model self-referencing relationships
- ➢ Model ternary relationships
- ➢ Identify redundant relationships

SECTION7: COMPLETING THE LOGICAL DATA MODEL

- ➢ Use supertypes and subtypes to manage complexity
- ➢ Use supertypes and subtypes to represent rules and constraints

SECTION8: DATA INTEGRITY THROUGH NORMALIZATION

- ➢ Normalize a logical data model
- ➢ First normal form
- ➢ Second normal form
- ➢ Third normal form
- ➢ Reasons for denormalization
- ➢ Transactional vs. business intelligence applications

SECTION9: VERIFICATION AND VALIDATION

- ➢ Verify the technical accuracy of a logical data model
- ➢ Verify the logical data model using other models
- ➢ Data flow diagram

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