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 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

SECTION 5: IDENTIFYING ATTRIBUTES
Discover attributes for the subject area
Assign attributes to the appropriate entity
Name attributes using established naming conventions
Documenting attributes

SECTION 6: 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

SECTION 7: COMPLETING THE LOGICAL DATA MODEL
Use supertypes and subtypes to manage complexity
Use supertypes and subtypes to represent rules and constraints

SECTION 8: 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

SECTION 9: 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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Know more about Datamodeling

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