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Document History

Date	Course Version No.	Software Version No.	Developer / SME	Change Record Remarks
June 2011	0.1D	NA	Vandana Mistry	Content Creation

Course Goals and Non Goals

- **Course Goals**
 - At the end of this program, participants gain an understanding of basic concepts in Data Modeling.
- **Course Non Goals**
 - Implementation of Data Modeling tools.




Pre-requisites

- Fair knowledge of DW concepts

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Intended Audience

➤ Software Engineers and Senior Software Engineers



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Day Wise Schedule

- Day 1
 - Lesson 1: Introduction to Data Modeling
 - Lesson 2: Understanding Business Requirements
 - Lesson 3: Conceptual Model
 - Lesson 4: Logical Model

Table of Contents

- **Lesson 1: Introduction to Data Modeling**
 - 1.1: Importance of Data Modeling
 - 1.2: Features of a Good Data Model
 - 1.3: Who should be involved in data modeling?
 - 1.4: Database Design stages and deliverables
 - 1.5: Classification of Information
- **Lesson 2: Understanding business requirements**
 - 2.1: Need of requirement analysis
 - 2.2: Characteristic of a good requirement
 - 2.3 The data life cycle
 - 2.4. Methods of collecting requirement
 - 2.5. Business requirement specification

Table of Contents

- Lesson 3: Conceptual Model
 - 3.1: Define Conceptual Model
 - 3.2: Objectives of Conceptual Model
 - 3.3: Components of Conceptual Model
 - 3.4: Types of Modeling
 - 3.5. Entity-Relationship model
 - 3.6. Types of Attributes
 - 3.7. Steps of Dimension Modeling
 - 3.8. Star Schema
 - 3.9. Snowflake Schema
 - 3.10. Bill Inmon Vs Ralph Kimball approach

Table of Contents

- **Lesson 4: Logical Model**
 - 4.1: Define Logical Model
 - 4.2: List features of Logical model
 - 4.3: Transformations required to be done while converting a conceptual model into logical model
 - 4.4: Activities in Table specification
 - 4.5: Activities in Column specification
 - 4.6: Activities in Primary key specification

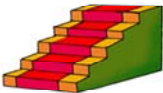
References

- **Student material:**
 - Class Book (presentation slides with notes)
- **Book:**
 - Data Modeling techniques for data warehousing
- **Web-site:**
 - <http://www.datawarehouse.org>



Next Step Courses (if applicable)

- BI related tool training



Other Parallel Technology Areas

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