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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
June 2016	0.2D	NA	Swati Rao	Material Revamp as per Integrated ToC for I & D LoT

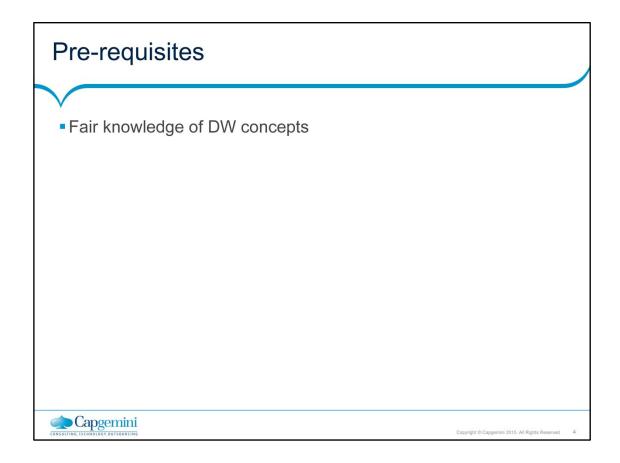


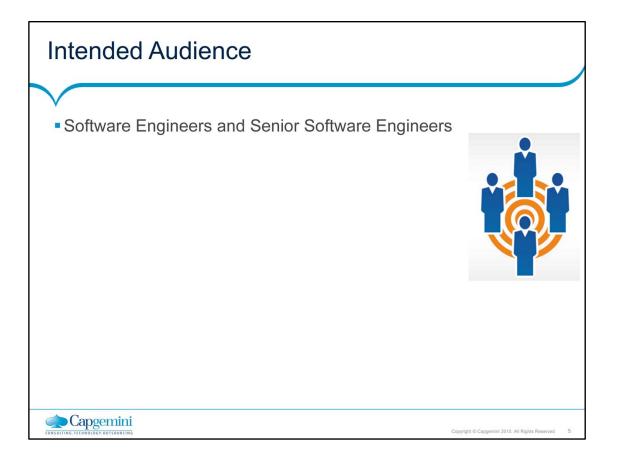
Course Goals and Non Goals

- 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.









Day Wise Schedule

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



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- 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



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- 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



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- 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





