

## Relational Data Modeling

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### Course Summary

#### Description

Develop practical data modeling experience in using structured analysis techniques and standard (Oracle) notation for entity-relationship diagramming to document enterprise-wide data requirements. This class focuses on the skills of data analysis and data modeling, and is not a tools class. Data modeling problems of increasing complexity are given in class exercises and workshops, and modeled with pen and paper. Lectures are followed by training workshops, with hands-on (paper-based) data modeling exercises.

#### Topics

- Introduction to Data Analysis and Data Modeling
- Standards for Drawing Entity-Relationship Diagrams
- Hands-on Relational Data Modeling Training Exercises
- Workshop on Analysis of Divergent Models
- Workshop on Model Convergence Ideas
- Subtype vs. Arc Implementation Options
- Quality Assurance Tips
- Workshop on Quality Assurance of Selected Models

#### Audience

This course is designed for business analysts, subject matter experts, data analysts, and modelers seeking hands-on training in using basic data modeling techniques.

#### Prerequisites

Before taking this course, students should possess previous data analysis experience.

#### Duration

Three days