

## Information Modeling and Relational Databases

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This course is for those responsible for the accuracy and efficacy of databases. It provides an introduction to ORM (Object Role Modeling) and much more. Supported by examples, exercises, and useful background information, this course teaches students to develop a natural-language-based ORM model and then, where needed, abstract ER and UML models from it.

Students will quickly become proficient in the modeling technique that is proving vital to the development of accurate and efficient databases that best meet real business objectives.

Duration:

- 3 Days, Instructor-led

Prerequisite:

- There is no prerequisite for this course.

Topics Include:

- Introduction to Information Modeling
- Information Levels and Frameworks
- Conceptual Modeling
- Uniqueness Constraints
- Mandatory Roles
- Value, Set-Comparison, and Subtype Constraints
- Other Constraints and Final Checks
- Entity Relationship Modeling (ERM)
- Data Modeling in UML
- Relational Mapping
- Relational Languages
- Schema Transformations
- Other Modeling Aspects and Trends