

Relational Database Design and Concepts

This course covers an introduction to the core principles and fundamentals of relational database design. It focuses on critical planning issues that are often overlooked by beginning database designers. In addition, the course incorporates entity relationship diagrams (ERDs), which provide a way to represent parts of the logical data model in diagram form.

Whether you're a programmer or non-programmer, this course will provide the information needed to fully understand relational database design concepts. Students will learn how to design professional-level relational database systems that are solid and robust, right from the start. They will learn how database design affects performance, and how to make the compromises that enhance efficiency. In addition, the students will gain knowledge of a standard set of symbols and other forms of notation that can be used in hand-drawn diagrams or computer-based diagramming tools.

Duration:

- 5 Days, Instructor-led

Prerequisite:

- There is no prerequisite for this course.

Topics Include:

- Introduction and Overview
- Basic Concepts
- Database Structure
- Relationships
- Data Integrity
- Relational Algebra
- Designing Relational Database Systems
- The Conceptual Data Model
- The Database Schema
- Entity Relationship Diagramming (ERD)
- Communicating the Design
- Maintaining Database Integrity