Logical Data Modeling

Course Summary

Description

This course will describe the process of designing a database for a relational system. The first part will present an approach to develop a semantic data model which identifies attributes and relationships relevant to the organization's operation. The next part will describe the process of transforming the semantic model to a relational design such as a set of database tables. Throughout the course, emphasis will be placed on developing an accurate model of the organization. The material presented is reinforced through a series of case studies and exercises. This course in not Oracle specific but applies to any relational database.

Topics

- Overview of database design
- Objectives of the process
- Examples of good and bad designs
- Design methodologies
- Conceptual design
- Extended Entity Relationship (EER) model
- Methodology of EER design
- Pragmatic issues
- Integrity constraints and business rules
- Design verification
- Relational design
- Transforming an EER model to a relational model
- Pragmatic Relational design

Audience

This course is designed for Programmers, Analysts and Database Administrators responsible for the design of relational database systems.

Prerequisites

Before attending this course, students should take ProTech's Oracle9i Concepts and Facilities, Microsoft SQL Server Concepts, or have an understanding of relational database systems.

Duration

Two days

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