

## ORACLE Foundations Relational Database Design

**Duration:** 2 days

### Description

This course covers the steps involved in the design of a relational database using the Oracle CASE\*Method. Students develop an understanding of a relational model and how to converse in relational database terminology

### Audience

Application Designers, Developers, and Database Administrators

### Prerequisites

None

### Topics

#### INTRODUCTION

- What is a data model? Why develop and utilize an entity relationship model?
- Other aspects of the data model, Date model input, Components of an entity relationship model

#### ENTITIES

- Definition, Examples
- Determining entities, Entity classification

#### RELATIONSHIPS

- Definition of relationships, Examples of relationship ends and types, Determining relationships

#### ATTRIBUTES

- Definition and examples of attributes, Determining attributes for each entity
- Unique identifiers, Determining UID's
- Unique identifiers within a relationship

#### THE E/R MODEL

- Reading the E/R model
- Syntax, Appearance guidelines of the E/R model, Guidelines for a model review

#### ENTITY TOPICS

- Supertypes and subtypes, Exclusive arcs
- Internal vs. external, and Referenced and referencing entities

#### ADVANCED TOPICS

- Resolving many to many relationships
- Domains, Derived attributes, Cascading
- Non-transferable relationship, Valid/invalid relationships
- Qualified degree, Normalization

#### Course Labs:

- Entity Identification
- Modeling
- Relationship
- Subtype and Exclusive Arc
- Resolving M:M
- Normalization