

# Relational Database Design Fundamentals

*Summary: Duration – 2 full days, Level - 200 (MS Scale), Delivery method - Virtual Instructor-led class or In-class*

The relational database design class covers the foundation of relational model and its important concepts of normalization, keys, data integrity and data consistency. The class is a first step which a database specialist needs to start with to gain a good understanding of what the relational database is and how to approach its usage and even make first steps in its design.

## AUDIENCE:

- Designers and developers who start their career in the database field
- Developers who are responsible for changing database design or responding to database change requirements

## AFTER THE TRAINING ATTENDEES WILL BE ABLE TO:

- Understand the concepts of relational database theory
- Understand attribute relationships and relations
- Understand normal forms and perform normalization of a model
- Avoid some well-known bad practices in designing a database
- Analyse subject area requirements and build a simple conceptual and logical design
- Make well-grounded decisions related to DB design
- Create a logical model of a simple database

## TOPICS:

- Module 1.** Relational DB Fundamentals
- Module 2.** Attributes and Relationships
- Module 3.** Database Constraints and logical Integrity
- Module 4.** Normalization
- Module 5.** ER Modeling Principles
- Module 6.** ER Modeling Case Study