# Advanced Applications of SQL

## What You Will Learn
- Understanding the Principles of Database Design
- Enforcing Uniqueness of Data Table Records
- Eliminating Redundant Data
- Eliminating Data that Does Not Depend on the Key
- Eliminating Unrelated Data from the Same Table
- Advantages of a Relational Database
- Disadvantages of a Relational Database

## Exercise 1
- Creating Tables
  - Planning Your Tables
  - Using the CREATE TABLE Statement
- Inserting Records
- Inserting Date and Time Data
- Updating Data
- Deleting Data

## Exercise 2
- Creating Tables with Column Constraints
  - Setting a NOT NULL Constraint
  - Setting a CHECK Constraint for a field
  - Setting a DEFAULT Constraint for a Field
  - Setting a UNIQUE Constraint for a Field
- Deleting Tables

## Exercise 3
- Creating Indexes

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