



Learning Guide Unit 3

Overview

Unit 3: Relational Database Design

Topics:

- The problem of redundancy
 - [Functional Dependencies](#)
 - [Normal Forms](#)
 - [First Normal Form \(1NF\)](#)
 - [Second Normal Form \(2NF\)](#)
 - [Third Normal Form \(3NF\)](#)
 - [Boyce-Codd Normal Form \(BCNF\)](#)
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Learning Objectives:

By the end of this Unit, you will be able to:

1. Explain issues related to [data redundancy](#) in databases.
 2. Identify [functional dependencies](#).
 3. Analyze a relational schema to minimize redundancy.
 4. Apply normalization techniques to transform a relation into first, second, third and [Boyce-Codd normal forms](#).
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Tasks:

- Read through the Learning Guide and the Reading Assignment.
- Complete the Discussion Assignment by posting in the [Discussion Forum](#).
- Respond to two of your fellow classmates' posts in the [Discussion Forum](#).
- [Complete](#) and submit the Programming Assignment.
- Take and submit the Self-Quiz.
- Take and submit the Graded Quiz.
- Review the [information literacy](#) content on the right-hand side block of this page.

