



Learning Guide Unit 2

Reading Assignment

As you go through the readings and watch the video, consider the following:

1. Can you think of real-world examples where a poor choice of [conceptual data model](#) led to inefficiencies or challenges in [database management](#)?
 2. Are [ER diagrams](#) typically used as a visual tool to aid in the communication and understanding of database structures?
-

Read

1. Vidhya, V., Jeyaram, G., & Ishwarya, K. (2016). *Database management systems*. Alpha Science International.

- Log into the [UoPeople](#) library and go to LIRN - [How to Access LIRN?](#)
 - Select **Computer Science** under the **Jump to the Specific Group** section.
 - Search using the entire name of the book.
 - View the online book.
 - **Read Chapter 2- Data Models**
 - Section 2.8 - [Entity Relationship Model](#) (pp. 43 till pp. 60)
 - [2.8.1 - Basic Concepts](#)
 - [2.8.2 - Constraints](#)
 - [2.8.3 - Keys](#)
 - [2.8.4 - Entity-Relationship Diagrams](#)
 - [2.8.5 - Dependency](#)
 - [2.8.6 - Sample E-R Diagram](#)
 - [2.8.7 - E-R Diagram](#)
 - [2.8.8 - Extended E-R Features](#)
 - This section focuses on the **Entity-Relationship model**. It emphasizes the importance of understanding these models for database organization and highlights the ER model as a key concept in [database design](#).
-

Additional Readings:

1. Groves, M. (2022, October 7). *What is data modeling? Conceptual, physical, logical*. <https://www.couchbase.com/blog/conceptual-physical-logical-data-models/>
 - This reading provides an overview of [data modeling](#) focusing on conceptual, physical, and logical models.
 2. Nalimov, C. (2021, September 22). *What is a conceptual data model? With examples!* <https://www.gleek.io/blog/conceptual-data-model.html>
 - This reading explores the concept of a [conceptual data model](#) providing definition and examples.
-

Watch

1. Ellie. (2022, July 6). *Conceptual vs logical data models - What are the key differences?* [Video]. [YouTube](#).
 - The video discusses the key differences between conceptual and [logical data models](#).



Conceptual vs Logical Data Models - W...

