



## Learning Guide Unit 8

## Reading Assignment

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As you go through the readings, consider the following:

1. Are there opportunities for continuous improvement within the Waterfall model, such as refining the definition of project milestones or optimizing resource allocation strategies based on lessons learned from previous projects?
2. Are there specific challenges you have encountered when implementing database alterations, and how have you navigated them to ensure minimal disruption to ongoing operations?

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### Read

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1. *Alter database*. (n.d.). Snowflake Documentation. <https://docs.snowflake.com/en/sql-reference/sql/alter-database>
  - This document covers the syntax, usage, and functionality of the "**ALTER DATABASE**" command within the data warehouse environment.
2. *Advantages and disadvantages of the Waterfall Model*. (n.d.). WADIC. <https://wadic.net/waterfall-model-advantages-disadvantages/>
  - This reading covers the advantages and disadvantages of the **Waterfall Model**, a traditional sequential software development approach.
3. Collins, E. (2023, October 12). *Ensuring optimal performance: A guide to routine database maintenance*. The 9th Door. <https://the9thdoor.com/guide-to-routine-database-maintenance/>
  - This article provides a comprehensive guide to **routine database maintenance** aimed at ensuring optimal performance.
4. *Database systems development life cycle*. (n.d.). LibreTexts. [https://eng.libretexts.org/Courses/Delta\\_College/Introduction\\_to\\_Database\\_Systems/01%3A\\_Introduction\\_to\\_Database\\_Systems\\_and\\_SQL/1.0](https://eng.libretexts.org/Courses/Delta_College/Introduction_to_Database_Systems/01%3A_Introduction_to_Database_Systems_and_SQL/1.0)
  - The article discusses the **Database Systems Development Life Cycle** which is a structured approach to designing, implementing, and maintaining database systems.
5. Odogwu, C. (2022, February 26). *What is database maintenance and why is it important?* MUO. <https://www.makeuseof.com/what-is-database-maintenance/>
  - This reading explains what **database maintenance** entails and why it is essential.
6. Tianzhou. (2023, May 19). *How to Handle database migration / Schema change?* Bytebase. <https://www.bytebase.com/blog/how-to-handle-database-schema-change/>
  - This reading discusses strategies and best practices for managing **database migrations and schema changes** effectively.
7. Watt, A. (n.d.). *Database development process*. LibreTexts. [https://eng.libretexts.org/Bookshelves/Computer\\_Science/Databases\\_and\\_Data\\_Structures/Database\\_Design\\_\(Watt\)/01%3A\\_Chapters/1.13%3A\\_Developing\\_a\\_database\\_system](https://eng.libretexts.org/Bookshelves/Computer_Science/Databases_and_Data_Structures/Database_Design_(Watt)/01%3A_Chapters/1.13%3A_Developing_a_database_system)
  - This reading delves into the various stages and methodologies involved in **developing a database system**.
8. 15.1.2 *ALTER DATABASE statement*. (n.d.). MySQL. <https://dev.mysql.com/doc/refman/8.3/en/alter-database.html>
  - This section of the manual likely covers the syntax, usage, and functionality of the "**ALTER DATABASE**" statement which is typically used to modify characteristics of an existing database, such as its name, default character set, default collation, or other properties.