

Unlock the Secrets of Data Management with the Comprehensive Guide to SQL Server and Database Fundamentals

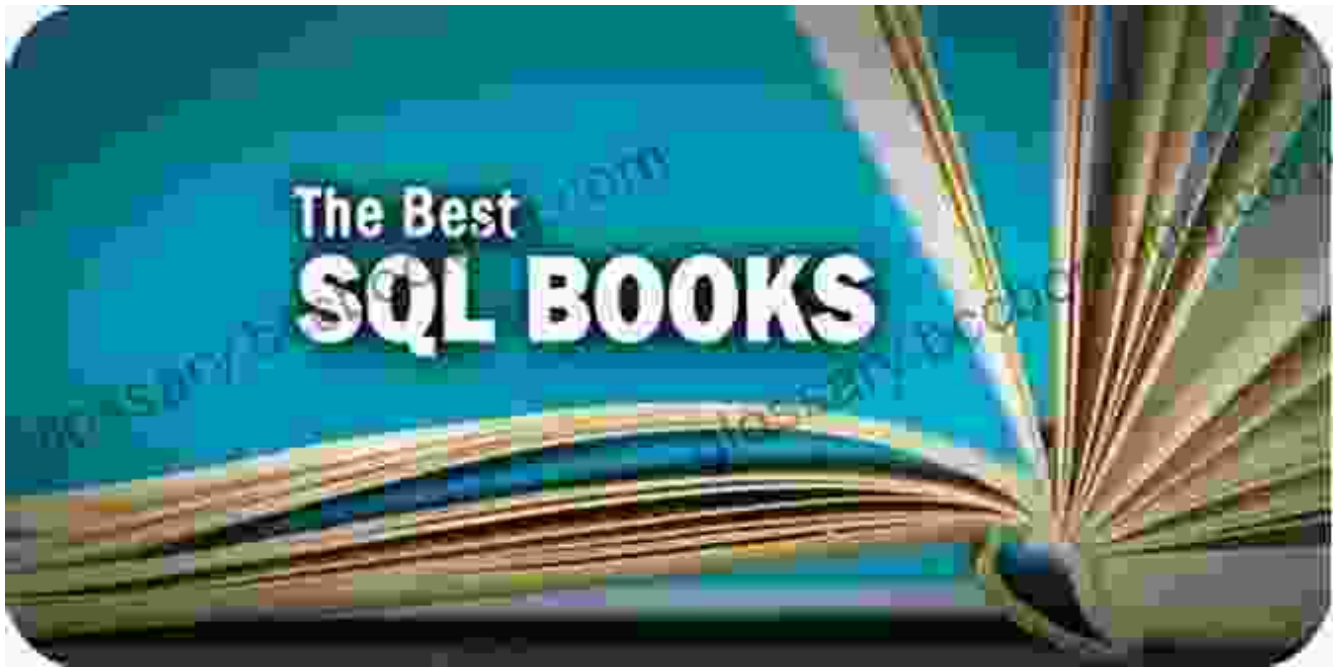


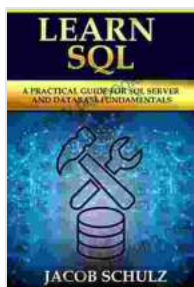
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Chapter 1: to Database Management

This chapter provides an overview of database management, including its importance in modern data-driven organizations. It covers the key concepts of data, information, and databases, and highlights the role of database management systems (DBMSs) in managing and organizing data.



Learn SQL: A Practical Guide for SQL Server and Database Fundamentals by Jacob Schulz

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Language : English
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Enhanced typesetting : Enabled
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Chapter 2: The Basics of SQL Server

This chapter introduces SQL Server, one of the leading DBMSs used worldwide. It covers the architecture of SQL Server, including its components and functionality. It also provides an overview of the different versions of SQL Server and their key features.

Chapter 3: Data Modeling and Relational Databases

This chapter delves into the fundamentals of data modeling and relational databases. It explains the principles of data modeling, including entity-

relationship diagrams (ERDs) and normalization techniques. It also covers the key concepts of relational databases, such as tables, columns, and primary keys.

Chapter 4: SQL Fundamentals

This chapter provides a comprehensive foundation in SQL, the industry-standard language for interacting with relational databases. It covers the basic syntax and structure of SQL queries, including SELECT, INSERT, UPDATE, and DELETE statements. It also introduces the concept of data types and data operators.

Chapter 5: Data Manipulation and Querying

This chapter focuses on advanced SQL techniques for data manipulation and querying. It covers the use of joins, subqueries, and set operators to retrieve and manipulate data from multiple tables. It also introduces the concept of data aggregation and introduces functions for performing calculations and summarizing data.

Chapter 6: Data Integrity and Security

This chapter emphasizes the importance of data integrity and security in database management. It covers the principles of data integrity, including constraints and referential integrity. It also covers the key aspects of database security, including user authentication, authorization, and encryption techniques.

Chapter 7: Database Administration and Optimization

This chapter provides a comprehensive overview of database administration and optimization tasks. It covers the responsibilities of a

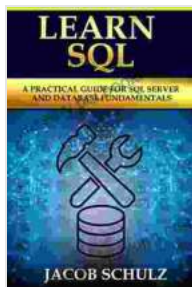
database administrator (DBA), including database creation, backup and recovery, and performance monitoring. It also introduces the principles of database optimization, including indexing and query tuning techniques.

Chapter 8: Advanced SQL and Database Features

This chapter covers advanced SQL and database features that are essential for building robust and scalable data solutions. It introduces the concept of stored procedures, functions, and triggers. It also covers the use of XML and JSON data types, and the integration of SQL Server with other technologies such as .NET and Power BI.

Chapter 9: Real-World Applications of SQL Server and Databases

This chapter provides real-world examples of how SQL Server and databases are used in various industries and applications. It covers the use of SQL Server in data warehouses, business intelligence, and cloud computing. It also introduces case studies and success stories that demonstrate the practical applications of SQL Server and databases in solving real-world business challenges.



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