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## Chapter 5 Physical Database Design and Performance

### Chapter Overview

This chapter presents the basic steps that are required to develop an effective physical database design. Physical database design is very important as it immediately affects factors that are important to the end user and the entire enterprise: data integrity and security, response times, usability and user experience, and so on. First, we present a simple approach to estimating the volume of data in a database, as well as the probable data usage patterns. Next, we discuss issues associated with defining fields, including data type determination, coding and compression techniques, controlling data integrity, and handling missing data. We then discuss designing physical records and include an expanded section on denormalization. Vertical and horizontal partitioning are covered next. We describe the basic file organizations and the trade-offs that are typically involved in selecting a file organization. We examine the use and types of indexes. File access performance is discussed,

# Modern Database Management Solutions Manual

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## **Modern Database Management Solutions Manual:**

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