

ADVANCED DATABASE SYSTEMS

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P R E F A C E

Database management systems have become ubiquitous as a fundamental tool for managing information, and a course on the principles and practice of database systems is now an integral part of computer science curricula. This book covers the fundamentals of modern database management systems, in particular relational database systems and NoSQL. It is intended as a text for an introductory database course for undergraduates, and we have attempted to present the material in a clear, simple style.

Here is a summary of the content and structure of the book:

- Chapter 1 gives a brief introduction to Database Systems & NoSQL, its architecture, data models and its applications.
- Chapter 2 focuses on relational model, fundamental concepts of SQL along with various constraints in Database and also describes about various normalization.
- Chapter 3 focuses on NoSQL, Hbase, Redis and CRUD Operations.
- Chapter 4 discusses indexing and Hashing in Relational Database, MongoDB, and Cassandra.
- Chapter 5 discusses various storage systems in Cloud.

 *Author(s)*

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