



## Database Management System

<b>Author :</b>	A. Kalaivani
<b>ISBN 13 :</b>	978-93-55386-72-4
<b>ISBN 10 :</b>	93-55386-72-9
<b>E-ISBN 13 :</b>	978-93-55386-72-4
<b>Edition :</b>	First
<b>Pages :</b>	176
<b>Type of book :</b>	Paperback
<b>Year :</b>	2026
<b>Language :</b>	English
<b>Publisher :</b>	Khanna Publishing House
<b>M.R.P :</b>	Rs 298.00
<b>Categories :</b>	<a href="#">Computer Science Engineering, Sathyabama Series</a>
<b>Condition Type :</b>	New
<b>Country Origin :</b>	India

## Product Description

The book, Database Management System, is an essential resource for navigating the data-driven landscape of the modern technological era. Recognizing that efficient, secure, and easily accessible data management is a critical task for all industries—from e-commerce to finance—this text provides a clear and comprehensive introduction to the field. Its core purpose is to build a strong theoretical foundation in database concepts while equipping readers with practical, real-world skills.

The text offers a structured learning pathway, commencing with foundational principles like the history, architecture, and characteristics of Database Management Systems (DBMS). It then delves into essential topics such as conceptual modeling using the Entity-Relationship (ER) model, relational schema design, and the crucial process of normalization (up to 5NF) to ensure database efficiency and data integrity. A significant portion of the book is dedicated to Structured Query Language (SQL), covering DDL, DML, DCL, and TCL commands, query execution, optimization, and transaction processing, including the vital ACID properties. Critically, the book extends beyond traditional relational systems to address modern trends, dedicating a chapter to Concurrency Control, Recovery Techniques, and NoSQL DBMS.

Intended for undergraduate students in Computer Science, IT, and Data Science, this book is also an invaluable reference for software engineers and data analysts seeking to refine their skills. Through numerous step-by-step explanations, hands-on exercises, and practical implementations using real-world scenarios, the book successfully bridges the gap between academic theory and industry application, preparing readers for real-world database challenges.

Salient Features:

- **ER & Relational Modeling:** Presents in-depth coverage of the Entity-Relationship (ER) model and systematic procedures for mapping ER diagrams to a relational schema, incorporating all essential integrity constraints.
- **Schema Refinement:** Offers a detailed exploration of functional dependencies and normalization techniques (up to 5NF). This knowledge ensures the creation of efficient, scalable database designs that minimize redundancy and anomalies.
- **Comprehensive SQL:** Provides hands-on instruction for mastering all facets of Structured Query Language (SQL), including DDL, DML, DCL, and TCL commands, complex joins, and advanced subqueries.



---

## Table of Contents

---

1. Database Systems Concepts and Architecture
  2. Data Modeling
  3. Schema Refinement
  4. Query Processing and Transaction Processing
  5. Concurrency Control, Recovery Techniques and No SQL BDMS
- 

## Author

---

Kalaivani. A Joan Niveda J.

---

