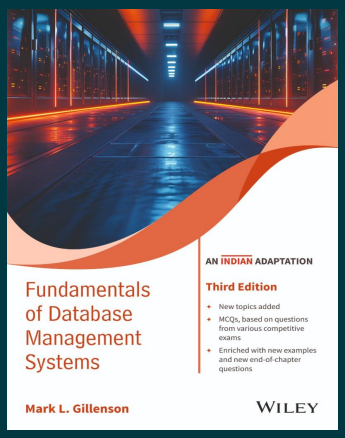
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Fundamentals of Database Management Systems, 3ed, An Indian Adaptation

By Mark L. Gillenson

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Description

The newly revised third edition of Fundamentals of Database Management Systems delivers an authoritative and comprehensive account of contemporary database management. This edition assists readers in understanding critical topics in the subject, including data modeling, relational database concepts, logical and physical database design, SQL, data administration, data security, NoSQL, blockchain, database in the cloud, and more. The author offers a firm grounding in the fundamentals of database while, at the same time, providing a wide-ranging survey of database subfields relevant to information systems professionals.

This Indian edition enhances the coverage with new and updated content. It introduces new sections on traditional file systems, file systems versus database systems, ARIES recovery algorithm, dirty read problem, and phantom phenomenon. The coverage of the section on the data normalization process has been enhanced by introducing new subsections on Boyce- Codd normal form (BCNF), fourth normal form, and fifth normal form. Examples, mini cases, and many end-of-chapter questions throughout the book are new or revised. It also includes multiple choice questions derived from various competitive examinations.

About the Author

Mark L. Gillenson

Dr. Mark L. Gillenson has been practicing, researching, teaching, writing, and most importantly, thinking about data and database management for over 50 years, split between working for the IBM Corporation and being a professor in the academic world. While working for IBM he designed databases for IBM’s corporate headquarters, consulted on database issues for some of IBM’s largest customers, taught database management at the prestigious IBM Systems Research Institute in New York, and conducted database seminars throughout the United States and on four continents.

Dr. Gillenson conducted some of the earliest studies on data and database administration and has written extensively about that subject as well as about database design. He is an associate editor of the Journal of Database Management, with which he has been associated since its inception. This is the third edition of his third book on database management, all published by John Wiley & Sons, Inc. Dr. Gillenson is currently University Research Professor in the Fogelman College of Business and Economics of The University of Memphis.

He is also the Director of the UofM’s Systems Testing Excellence Program (STEP). His degrees are from Rensselaer Polytechnic Institute and The Ohio State University.

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