



METADATA

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Abstract

The book is an electronic textbook that includes: 1) a presentation and discussion of the "theoretical" issues, 2) a study of database programming with interesting examples, and 3) a list of case studies characterized by a global and, as much as possible, interdisciplinary approach to database systems. It is addressed to undergraduate students and professional IT engineers who want to develop their skills in database application design and programming, as well as to postgraduate students of business administration, librarianship, archival and information studies, and in other fields, who are interested in applications of database systems. It also aims to solve data management problems and

meet the needs of professionals in the field. The subject of the book is not only the study and exploitation of established directions, tools and technologies that are popular in the context of database systems, but also the new promising technologies, such as big data management. The book consists of twelve chapters written in such a way so that each one can be separately and independently read. Effort has been made so that even the chapter units, examples and topics can be studied (and tested on a computer) independently. The book's introduction includes suggestions for navigating the book's chapters and scenarios for using it in the context of one or two undergraduate semester courses.

