



Data on the Web: From Relations to Semistructured Data and XML (The Morgan Kaufmann Series in Data Management Systems)

Serge Abiteboul, Peter Buneman, Dan Suciu

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The Web is causing a revolution in how we represent, retrieve, and process information. Its growth has given us a universally accessible database-but in the form of a largely unorganized collection of documents. This is changing, thanks to the simultaneous emergence of new ways of representing data: from within the Web community, XML; and from within the database community, semistructured data. The convergence of these two approaches has rendered them nearly identical. Now, there is a concerted effort to develop effective techniques for retrieving and processing both kinds of data.

Data on the Web is the only comprehensive, up-to-date examination of these rapidly evolving retrieval and processing strategies, which are of critical importance for almost all Web- and data-intensive enterprises. This book offers detailed solutions to a wide range of practical problems while equipping you with a keen understanding of the fundamental issues-including data models, query languages, and schemas-involved in their design, implementation, and optimization. You'll find it to be compelling reading, whether your interest is that of a practitioner involved in a database-driven Web enterprise or a researcher in computer science or related field.

- * Provides an in-depth look at XML and other technologies for publishing structured documents on the Web.
- * Examines recently developed methods for querying and updating structured Web documents and semistructured data, including XML-QL and XSL.
- * Looks deeper into the convergence of Web and database approaches to semistructured data presentation and querying.
- * Details practical examples of how these techniques are already being applied-and how they will be used in the near future.
- * Teaches sound techniques for writing queries over Web data, describing loose schemas over partially structured data, and implementing and optimizing queries on semistructured data.

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