



Database Systems: The Complete Book (2nd Edition)

By Hector Garcia-Molina, Jeffrey D. Ullman, Jennifer Widom

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Written by well-known computer scientists, this introduction to database systems offers a comprehensive approach, focusing on database design, database use, and implementation of database applications and database management systems.

The first half of the book provides in-depth coverage of databases from the point of view of the database designer, user, and application programmer. It covers the latest database standards SQL:1999, SQL/PSM, SQL/CLI, JDBC, ODL, and XML, with broader coverage of SQL than most other texts. The second half of the book provides in-depth coverage of databases from the point of view of the DBMS implementor. It focuses on storage structures, query processing, and transaction management. The book covers the main techniques in these areas with broader coverage of query optimization than most other texts, along with advanced topics including multidimensional and bitmap indexes, distributed transactions, and information integration techniques.

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Editorial Review

About the Author

Hector Garcia-Molina is the L. Bosack and S. Lerner Professor of Computer Science and Electrical Engineering at Stanford University. His research interests include digital libraries, information integration, and database applications on the Internet. He was a recipient of the SIGMOD Innovations Award and a member of PITAC (President's Information-Technology Advisory Council). He currently serves on the Board of Directors of Oracle Corp.

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Jennifer Widom is Professor of Computer Science and Electrical Engineering at Stanford University. Her research interests span many aspects of nontraditional data management. She is an ACM Fellow and a member of the National Academy of Engineering, she received the ACM SIGMOD Edgar F. Codd Innovations award in 2007 and was a Guggenheim Fellow in 2000, and she has served on a variety of program committees, advisory boards, and editorial boards.

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