



Database Systems: Design, Implementation, & Management

By Carlos Coronel, Steven Morris



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Practical and easy to understand, DATABASE SYSTEMS: DESIGN, IMPLEMENTATION, AND MANAGEMENT, Eleventh Edition, gives students a solid foundation in database design and implementation. Filled with visual aids such as diagrams, illustrations, and tables, this market-leading text provides in-depth coverage of database design, demonstrating that the key to successful database implementation is in proper design of databases to fit within a larger strategic view of the data environment. Renowned for its clear, straightforward writing style, this text provides students with an outstanding balance of theory and practice. The eleventh edition has been updated to include expanded relational algebra coverage, updated business vignettes showing the impact of database tech in the real world, updated coverage of cloud data services, expanded coverage of Big Data and related Hadoop technologies, SQL coverage expanded to include MySQL databases, and many other improvements! In addition, new review questions, problem sets, and cases have been added throughout the book so that students have multiple opportunities to test their understanding and develop real and useful design skills.

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Editorial Review

Review

Part I: DATABASE CONCEPTS. 1. Database Systems. 2. Data Models. Part II: DESIGN CONCEPTS. 3. The Relational Database Model. 4. Entity Relationship (ER) Modeling. 5. Advanced Data Modeling. 6. Normalization of Database Tables. Part III: ADVANCED DESIGN AND IMPLEMENTATION. 7. Introduction to Structured Query Language (SQL). 8. Advanced SQL. 9. Database Design. Part IV: ADVANCED DATABASE CONCEPTS. 10. Transaction Management and Concurrency Control. 11. Database Performance Tuning and Query Optimization. 12. Distributed Database Management Systems. 13. Business Intelligence and Data Warehouses. Part V: DATABASES AND THE INTERNET. 14. Database Connectivity and Web Technologies. Part VI: DATABASE ADMINISTRATION. 15. Database Administration and Security. ONLINE APPENDICES. Appendix A: Designing Databases with Visio Professional: A Tutorial. Appendix B: The University Lab: Conceptual Design. Appendix C: The University Lab: Conceptual Design Verification, Logical Design, and Implementation. Appendix D: Converting the ER Model into a Database Structure. Appendix E: Comparison of ER Model Notations. Appendix F: Client/Server Systems. Appendix G: Object-Oriented Databases. Appendix H: Unified Modeling Language (UML). Appendix I: Databases in Electronic Commerce. Appendix J: Web Database Development with ColdFusion. Appendix K: The Hierarchical Database Model. Appendix L: The Network Database Model. Appendix M: Microsoft Access Tutorial.

About the Author

Carlos Coronel is currently the Lab Director for the College of Business Computer Labs at Middle Tennessee State University. He has more than 29 years of experience in various fields as a Database Administrator, Network Administrator, Web Manager, and Technology Specialist. He has taught courses in Web development, database design and development, and data communications at the undergraduate and graduate levels.

Steven Morris completed his Bachelor of Science and Ph.D. from Auburn University. He has taught courses in Database Design and Development, Database Programming with Advanced SQL and PL/SQL, Systems Analysis and Design, and Database Management at the graduate and undergraduate levels at Middle Tennessee State University. He has many years of experience consulting on a database projects across a broad range of industries. Dr. Morris has published numerous professional articles and has served on the review boards of several journals.

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