

Chapter Database Fundamentals Mcgraw Hill Education

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Data Warehousing and Analytics David Taniar 2022-02-04 This textbook covers all central activities of data warehousing and analytics, including transformation, preparation, aggregation, integration, and analysis. It discusses the full spectrum of the journey of data from operational/transactional databases, to data warehouses and data analytics; as well as the role that data warehousing plays in the data processing lifecycle. It also explains in detail how data warehouses may be used by data engines, such as BI tools and analytics algorithms to produce reports, dashboards, patterns, and other useful information and knowledge. The book is divided into six parts, ranging from the basics of data warehouse design (Part I - Star Schema, Part II - Snowflake and Bridge Tables, Part III - Advanced Dimensions, and Part IV - Multi-Fact and Multi-Input), to more advanced data warehousing concepts (Part V - Data Warehousing and Evolution) and data analytics (Part VI - OLAP, BI, and Analytics). This textbook approaches data warehousing from the case study angle. Each chapter presents one or more case studies to thoroughly explain the concepts and has different levels of difficulty, hence learning is incremental. In addition, every chapter has also a section on further readings which give pointers and references to research papers related to the chapter. All these features make the book ideally suited for either introductory courses on data warehousing and data analytics, or even for self-studies by professionals. The book is accompanied by a web page that includes all the used datasets and codes as well as slides and solutions to exercises.

Databases DeMYSTiFieD, 2nd Edition Andy Oppel 2010-10-22 Learning DATABASE fundamentals just got a whole lot EASIER! Now you can design, build, and manage a fully functional database with ease. Thoroughly updated to cover the latest technologies and techniques, Databases Demystified, Second Edition gives you the hands-on help you need to get started. Written in a step-by-step format, this practical guide covers methods that can be used with any database, including Microsoft Access, MySQL, Microsoft SQL Server, and Oracle. You'll learn about relational database components, database queries, SQL, the database life cycle, logical database design using normalization, and physical database design. Data and process modeling, database security, Online Analytical Processing (OLAP), and XML are also covered. Detailed examples and concise explanations make it easy to understand the material, and end-of-chapter quizzes and a final exam help reinforce learning. It's a no-brainer! You'll find out how to: Create and run database queries using the forms-based query tool in Microsoft Access Write SQL statements and queries Use entity relationship diagrams (ERDs) for data modeling Design physical tables Connect databases to users, computer systems, and applications Secure

database data Handle cursor processing, transaction management, and performance tuning Integrate XML documents and objects into databases Simple enough for a beginner, but challenging enough for an advanced student, Databases Demystified, Second Edition is your self-paced guide to learning universal database concepts.

OCA Oracle Database 12c SQL Fundamentals I Exam Guide (Exam 1Z0-061) Roopesh Ramklass 2014-04-18 A Complete Study System for OCA Exam 1Z0-061 Prepare for the Oracle Certified Associate Oracle Database 12c SQL Fundamentals I exam with this Oracle Press guide. Each chapter features challenging exercises, a certification summary, a two-minute drill, and a self-test to reinforce the topics presented. This authoritative resource helps you pass the exam and also serves as an essential, on-the-job reference. Get complete coverage of all OCA objectives for exam 1Z0-061, including: Data retrieval using the SQL SELECT statement Restricting and sorting data Single-row functions Using conversion functions and conditional expressions Reporting aggregated data with the group functions Displaying data from multiple tables with joins Using subqueries to solve problems Using the set operators Manipulating data with DML statements Using DDL statements to create and manage tables Electronic content includes: 150+ practice exam questions with detailed answers and explanations Score report performance assessment tool PDF copy of the book

Database Management Systems Raghu Ramakrishnan 2006 Database Management Systems provides comprehensive and up-to-date coverage of the fundamentals of database systems. Coherent explanations and practical examples have made this one of the leading texts in the field. The third edition continues in this tradition, enhancing it with more practical material. The new edition has been reorganized to allow more flexibility in the way the course is taught. Now, instructors can easily choose whether they would like to teach a course which emphasizes database application development or a course that emphasizes database systems issues. New overview chapters at the beginning of parts make it possible to skip other chapters in the part if you don't want the detail. More applications and examples have been added throughout the book, including SQL and Oracle examples. The applied flavor is further enhanced by the two new database applications chapters.

Management information systems James A. O'Brien 2003-03-31 O'Brien's latest edition provides real-world business and managerial coverage of information technology along with case studies and tutorials, making it perfect for undergraduate and introductory MBA courses in management information systems. This blend of up-to-date text and cases is aimed at preparing students to use and manage information technology in the fast-changing business world of today. - All cases are from 2002 sources, including the longer Appendix cases. These are current illustrations of industry practice directly related to concepts discussed in each chapter. - Web exercises can be found in all chapters for instructors who want to emphasize practice with hands-on skills, and apply application software and Internet solutions to business problems. - Coverage of data warehouse, data mining and other database concepts has been increased to emphasize their importance to E-Business and E-Commerce databases and their implementation in the real world of business.

Database Design Using Entity-Relationship Diagrams, Second Edition Sikha Bagui 2011-09-07 Essential to database design, entity-relationship (ER) diagrams are known for their usefulness in mapping out clear database designs. They are also well-known for being difficult to master. With Database Design Using Entity-Relationship Diagrams, Second Edition, database designers, developers, and students preparing to enter the field can quickly learn the ins and outs of ER diagramming. Building on the success of the bestselling first edition, this accessible text includes a new chapter on the relational model and functional dependencies. It also includes expanded chapters on Enhanced Entity Relationship (EER) diagrams and reverse mapping. It uses cutting-edge case studies and examples to help readers master database development basics and defines ER and EER diagramming in terms of

requirements (end user requests) and specifications (designer feedback to those requests). Describes a step-by-step approach for producing an ER diagram and developing a relational database from it Contains exercises, examples, case studies, bibliographies, and summaries in each chapter Details the rules for mapping ER diagrams to relational databases Explains how to reverse engineer a relational database back to an entity-relationship model Includes grammar for the ER diagrams that can be presented back to the user The updated exercises and chapter summaries provide the real-world understanding needed to develop ER and EER diagrams, map them to relational databases, and test the resulting relational database. Complete with a wealth of additional exercises and examples throughout, this edition should be a basic component of any database course. Its comprehensive nature and easy-to-navigate structure makes it a resource that students and professionals will turn to throughout their careers.

Programming the Web with ColdFusion MX 6.1 Using XHTML Lakshmi Prayaga 2004
Programming the Web with Cold Fusion is the latest addition to the Web Developer Series. This text has been written in a textbook fashion at an introductory level for ColdFusion MX students. Learning is facilitated with examples and exercises in each chapter. Students are encouraged to try out examples in the classroom and observe results right away. Careful attention has been placed on concepts where novice programmers encounter most difficulty. This textbook makes an ideal reference after a student has joined the workforce as a ColdFusion programmer.

Schaum's Outline of Fundamentals of Relational Databases Ramon Mata-Toledo 2000-12-06
Tough Test Questions? Missed Lectures? Not Enough Time? Fortunately for you, there's Schaum's Outlines. More than 40 million students have trusted Schaum's to help them succeed in the classroom and on exams. Schaum's is the key to faster learning and higher grades in every subject. Each Outline presents all the essential course information in an easy-to-follow, topic-by-topic format. You also get hundreds of examples, solved problems, and practice exercises to test your skills. This Schaum's Outline gives you Practice problems with full explanations that reinforce knowledge Coverage of the most up-to-date developments in your course field In-depth review of practices and applications Fully compatible with your classroom text, Schaum's highlights all the important facts you need to know. Use Schaum's to shorten your study time-and get your best test scores! Schaum's Outlines- Problem Solved.

Oracle Ocp Oracle 9I Database: Fundamentals Ii Exam Guide (With Cd) Velpuri 2002
This study guide -- includes complete coverage of all exam topics with practice questions and chapter summaries. CD-ROM contains interactive exams that simulate the actual OCP exams and include hotlinked questions, answers, and explanations.

Fundamentals of Database Systems Ramez Elmasri 2007
This edition combines clear explanations of database theory and design with up-to-date coverage of models and real systems. It features excellent examples and access to Addison Wesley's database Web site that includes further teaching, tutorials and many useful student resources.

Introduction to Computational Health Informatics Arvind Kumar Bansal 2020-01-08
This class-tested textbook is designed for a semester-long graduate or senior undergraduate course on Computational Health Informatics. The focus of the book is on computational techniques that are widely used in health data analysis and health informatics and it integrates computer science and clinical perspectives. This book prepares computer science students for careers in computational health informatics and medical data analysis. Features Integrates computer science and clinical perspectives Describes various statistical and artificial intelligence techniques, including machine learning techniques such as clustering of temporal data, regression analysis, neural networks, HMM, decision trees, SVM, and data mining, all of which are techniques used widely used in health-data analysis Describes computational techniques such as multidimensional and multimedia data representation

and retrieval, ontology, patient-data deidentification, temporal data analysis, heterogeneous databases, medical image analysis and transmission, biosignal analysis, pervasive healthcare, automated text-analysis, health-vocabulary knowledgebases and medical information-exchange Includes bioinformatics and pharmacokinetics techniques and their applications to vaccine and drug development
Student Problem Manual for Use with Fundamentals of Corporate Finance Stephen A. Ross 2003

Databases A Beginner's Guide Andy Opper 2009-04-13 Essential Database Skills--Made Easy! Learn standard database design and management techniques applicable to any type of database. Featuring clear examples using both Microsoft Access and Oracle, Databases: A Beginner's Guide begins by showing you how to use Structured Query Language (SQL) to create and access database objects. Then, you'll discover how to implement logical design using normalization, transform the logical design into a physical database, and handle data and process modeling. You'll also get details on database security, online analytical processing (OLAP), connecting databases to applications, and integrating XML and object content into databases. Designed for Easy Learning Key Skills & Concepts--Chapter-opening lists of specific skills covered in the chapter Ask the Expert--Q&A sections filled with bonus information and helpful tips Try This--Hands-on exercises that show you how to apply your skills Notes--Extra information related to the topic being covered Self Tests--Chapter-ending quizzes to test your knowledge

Alternative Assessments in Malaysian Higher Education Farrah Dina Yusop

Database Systems Elvis C. Foster 2022-09-26 This book provides a concise but comprehensive guide to the disciplines of database design, construction, implementation, and management. Based on the authors' professional experience in the software engineering and IT industries before making a career switch to academia, the text stresses sound database design as a necessary precursor to successful development and administration of database systems. The discipline of database systems design and management is discussed within the context of the bigger picture of software engineering. Students are led to understand from the outset of the text that a database is a critical component of a software infrastructure, and that proper database design and management is integral to the success of a software system. Additionally, students are led to appreciate the huge value of a properly designed database to the success of a business enterprise. The text was written for three target audiences. It is suited for undergraduate students of computer science and related disciplines who are pursuing a course in database systems, graduate students who are pursuing an introductory course to database, and practicing software engineers and information technology (IT) professionals who need a quick reference on database design. Database Systems: A Pragmatic Approach, 3rd Edition discusses concepts, principles, design, implementation, and management issues related to database systems. Each chapter is organized into brief, reader-friendly, conversational sections with itemization of salient points to be remembered. This pragmatic approach includes adequate treatment of database theory and practice based on strategies that have been tested, proven, and refined over several years. Features of the third edition include: Short paragraphs that express the salient aspects of each subject Bullet points itemizing important points for easy memorization Fully revised and updated diagrams and figures to illustrate concepts to enhance the student's understanding Real-world examples Original methodologies applicable to database design Step-by-step, student-friendly guidelines for solving generic database systems problems Opening chapter overviews and concluding chapter summaries Discussion of DBMS alternatives such as the Entity-Attributes-Value model, NoSQL databases, database-supporting frameworks, and other burgeoning database technologies A chapter with sample assignment questions and case studies This textbook may be used as a one-semester or two-semester course in database systems, augmented by a DBMS (preferably Oracle). After its usage, students will come away

with a firm grasp of the design, development, implementation, and management of a database system.

Advances in Affective and Pleasurable Design Yong Gu Ji 2012-07-17 This volume discusses pleasurable design – a part of the traditional usability design and evaluation methodologies. The book emphasizes the importance of designing products and services to maximize user satisfaction. By combining this with traditional usability methods it increases the appeal of products and use of services.

Handbook of Data Management 1999 Edition Sanjiv Purba 2021-12-17 Written by leading industry experts, the Data Management Handbook is a comprehensive, single-volume guide to the most innovative ideas on how to plan, develop, and run a powerful data management function – as well as handle day-to-day operations. The book provides practical, hands-on guidance on the strategic, tactical, and technical aspects of dat

Oracle Database 11g A Beginner's Guide Ian Abramson 2008-10-01 Get a Solid Foundation in Oracle Database Technology Master Oracle Database 11g fundamentals quickly and easily. Using self-paced tutorials, this book covers core database essentials, the role of the administrator, high availability, and large database features. Oracle Database 11g: A Beginner's Guide walks you, step by step, through database setup, administration, programming, backup, and recovery. In-depth introductions to SQL and PL/SQL are included. Designed for easy learning, this exclusive Oracle Press guide offers: Core Concepts--Oracle Database 11g topics presented in logically organized chapters Critical Skills--Lists of specific skills covered in each chapter Projects--Practical exercises that show how to apply the critical skills learned in each chapter Progress Checks--Quick self-assessment sections to check your progress Notes--Extra information related to the topic being covered Mastery Checks--Chapter-ending quizzes to test your knowledge

Loose Leaf for Database System Concepts Henry F. Korth 2019-03-01 Database System Concepts by Silberschatz, Korth and Sudarshan is now in its 7th edition and is one of the cornerstone texts of database education. It presents the fundamental concepts of database management in an intuitive manner geared toward allowing students to begin working with databases as quickly as possible. The text is designed for a first course in databases at the junior/senior undergraduate level or the first year graduate level. It also contains additional material that can be used as supplements or as introductory material for an advanced course. Because the authors present concepts as intuitive descriptions, a familiarity with basic data structures, computer organization, and a high-level programming language are the only prerequisites. Important theoretical results are covered, but formal proofs are omitted. In place of proofs, figures and examples are used to suggest why a result is true.

MANAGEMENT INFORMATION SYSTEM Dr. Sourabh Sharma & Prof. K. S. Thakur 2015-02-01 Health Management Information Systems Joseph K. H. Tan 2001 For a thorough, timely, and distinctly effective overview of how information systems are being used in the health care industry today, turn to HEALTH MANAGEMENT INFORMATION SYSTEMS: Methods and Practical Applications, Second Edition. Skillfully revised for both content and format, this exceptional teaching and learning tool gives students a solid command of vital information to set them on the path to professional success. Each chapter opens with a scenario that introduces students to a particular HMIS problem to be understood and overcome; new emphasis on application aids in helpful understanding to readers; graphics and tables throughout the text illustrate concepts for fast comprehension; plus, five major cases based on real-life experience.

SQL: A Beginner's Guide, Third Edition Andy Opper 2008-08-31 Essential Skills--Made Easy! Written to the SQL:2006 ANSI/ISO standard, this easy-to-follow guide will get you started programming in SQL right away. You will learn how to retrieve, insert, update, and delete database data, and perform management and administrative functions. SQL: A Beginner's Guide, Third Edition covers new features, including

SQL/XML, and is loaded with updated SQL examples along with notes on using them with the latest RDBMS software versions such as MySQL 5.0, SQL Server 2008, and Oracle Database 11g. Designed for Easy Learning: Key Skills & Concepts--Lists of specific skills covered in the chapter Ask the Experts--Q&A sections filled with bonus information and helpful tips Try This--Hands-on exercises that show how to apply your skills Notes--Extra information related to the topic being covered Self-Tests--Chapter-ending quizzes to test your knowledge Annotated Syntax--Example code with commentary that describes the programming techniques being illustrated

Information Resources Management: Concepts, Methodologies, Tools and Applications Management Association, Information Resources 2010-04-30 "This work is a comprehensive, four-volume reference addressing major issues, trends, and areas for advancement in information management research, containing chapters investigating human factors in IT management, as well as IT governance, outsourcing, and diffusion"--Provided by publisher.

Data Modeling, A Beginner's Guide Andy Oppel 2009-11-23 Essential Skills--Made Easy! Learn how to create data models that allow complex data to be analyzed, manipulated, extracted, and reported upon accurately. Data Modeling: A Beginner's Guide teaches you techniques for gathering business requirements and using them to produce conceptual, logical, and physical database designs. You'll get details on Unified Modeling Language (UML), normalization, incorporating business rules, handling temporal data, and analytical database design. The methods presented in this fast-paced tutorial are applicable to any database management system, regardless of vendor. Designed for Easy Learning Key Skills & Concepts--Chapter-opening lists of specific skills covered in the chapter Ask the expert--Q&A sections filled with bonus information and helpful tips Try This--Hands-on exercises that show you how to apply your skills Notes--Extra information related to the topic being covered Self Tests--Chapter-ending quizzes to test your knowledge Andy Oppel has taught database technology for the University of California Extension for more than 25 years. He is the author of Databases Demystified, SQL Demystified, and Databases: A Beginner's Guide, and the co-author of SQL: A Beginner's Guide, Third Edition, and SQL: The Complete Reference, Third Edition.

Teaching Statistics and Quantitative Methods in the 21st Century Joseph Lee Rodgers 2020-07-14 This work, which provides a guide for revising and expanding statistical and quantitative methods pedagogy, is useful for novice and seasoned instructors at both undergraduate and graduate levels, inspiring them to use transformative approaches to train students as future researchers. Is it time for a radical revision in our pedagogical orientation? How are we currently teaching introductory statistics and quantitative methods, and how should we teach them? What innovations are used, what is in development? This ground-breaking edited volume addresses these questions and more, providing cutting-edge guidance from highly accomplished teachers. Many current textbooks and syllabi differ in only superficial ways from those used 50 years ago, yet the field of quantitative methods--and its relationship to the research enterprise--has expanded in many important ways. A philosophical axiom underlying this book is that introductory teaching should prepare students to potentially enter more advanced quantitative methods training and ultimately to become accomplished researchers. The reader is introduced to classroom innovation, and to both pragmatic and philosophical challenges to the status quo, motivating a broad revolution in how introductory statistics and quantitative methods are taught. Designed to update and renovate statistical pedagogy, this material will stimulate students, new instructors, and experienced teachers.

OCPI Oracle9i Database: Fundamentals I Exam Guide Jason Couchman 2002-01-14 Prepare to pass the OCP DBA Fundamentals I exam using this Oracle Press study guide. You'll get complete coverage of all exam topics followed by practice questions and chapter summaries. The CD-ROM contains hundreds of practice exam questions in an adaptive format.

Database System Concepts Henry F. Korth 2019-02-19 Database System Concepts by Silberschatz, Korth and Sudarshan is now in its 6th edition and is one of the cornerstone texts of database education. It presents the fundamental concepts of database management in an intuitive manner geared toward allowing students to begin working with databases as quickly as possible. The text is designed for a first course in databases at the junior/senior undergraduate level or the first year graduate level. It also contains additional material that can be used as supplements or as introductory material for an advanced course. Because the authors present concepts as intuitive descriptions, a familiarity with basic data structures, computer organization, and a high-level programming language are the only prerequisites. Important theoretical results are covered, but formal proofs are omitted. In place of proofs, figures and examples are used to suggest why a result is true.

Microsoft SQL Server 2019: A Beginner's Guide, Seventh Edition Dusan Petkovic 2020-01-03 Publisher's Note: Products purchased from Third Party sellers are not guaranteed by the publisher for quality, authenticity, or access to any online entitlements included with the product. Get Up to Speed on Microsoft® SQL Server® 2019 Quickly and Easily Start working with Microsoft SQL Server 2019 in no time with help from this thoroughly revised, practical resource. Filled with real-world examples and hands-on exercises, Microsoft SQL Server 2019: A Beginner's Guide, Seventh Edition starts by explaining fundamental relational database system concepts. From there, you'll learn how to write Transact-SQL statements, execute simple and complex database queries, handle system administration and security, and use powerful analysis and reporting tools. New topics such as SQL and JSON support, graph databases, and support for machine learning with R and Python are also covered in this step-by-step tutorial. • Install, configure, and customize Microsoft SQL Server 2019 • Create and modify database objects with Transact-SQL statements • Write stored procedures and user-defined functions • Handle backup and recovery, and automate administrative tasks • Tune your database system for optimal availability and reliability • Secure your system using authentication, encryption, and authorization • Work with SQL Server Analysis Services, Reporting Services, and other BI tools • Gain knowledge of relational storage, presentation, and retrieval of data stored in the JSON format • Manage graphs using SQL Server Graph Databases • Learn about machine learning support for R and Python

Introduction to Geographic Information Systems Kang-Tsung Chang 2003-06-01 This book is designed to provide students in a first or second GIS course with a solid foundation in both GIS concepts and the use of GIS. The book retains the same comprehensive coverage of GIS topics as featured in the first edition. This edition is organized into five parts. Part 1 (Chapters 1 to 7) explains the fundamentals of GIS including coordinate systems, data models, data input, spatial data editing, and attribute data management. Part 2 (Chapters 8 and 9) includes data display and data exploration. Part 3 (Chapters 10 and 11) examines the basic tools for GIS analysis and their applications. Part 4 (Chapters 12 and 13) covers terrain mapping and analysis, and spatial interpolation. Part 5 (Chapters 14 to 16) deals with GIS models and modeling, regions, and network and dynamic segmentation. This book stresses both concepts and practices. GIS concepts from fields such as geography, cartography, spatial analysis, and database management explain the purpose and objectives of GIS operations and the interrelationship among GIS operations. For example, a basic understanding of map projection explains why we must project map layers to be used together with a common coordinate system and why we need to input numerous projection parameters. Each chapter in this book is divided into two main sections. The first section covers topics and concepts addressed in the chapter. The second section covers applications, usually with three to five problem-solving tasks

Clinical Pharmacology in Athletic Training Michelle Cleary 2021-10-12 Athletic trainers have a responsibility to provide high-quality pharmaceutical care while

meeting both legal and ethical requirements. Clinical Pharmacology in Athletic Training empowers athletic trainers with a functional understanding of pharmacology that enables them to formulate a treatment plan intended to mitigate disease and improve the overall health of their patients. This text incorporates the most up-to-date content from the 2020 Commission on Accreditation of Athletic Training Education (CAATE) standards, and it emphasizes interprofessional practice to enable future and current athletic trainers to collaborate with other health professionals in a manner that optimizes the quality of care. Clinical Pharmacology in Athletic Training begins by addressing drug legislation and the legal aspects of the athletic trainer's role in sport medication. The text provides an overview of pharmacokinetics and pharmacodynamics with an emphasis on concepts relevant to clinical practice. Students are introduced to the generic and brand names, general classifications, and appropriate administration of drugs and are guided toward appropriate online reference materials. Part II of this text describes common medications for pain, inflammation, and infections. Part III includes medications for specific conditions, including respiratory, cardiovascular, gastrointestinal, neurological, gynecological, and mental health conditions. The text also includes current information on opioid analgesics, cannabis, and cannabinoid-based medications. Clinical Pharmacology in Athletic Training teaches students to administer appropriate pharmacological agents for the management of the patient's condition. The information includes indications, contraindications, dosing, interactions, and adverse reactions. The following features are included to aid in the learning process: Chapter objectives set the stage for the main topics covered in the chapter. Key terms are boldfaced to indicate terms of special importance, and a glossary of definitions is included at the back of the book. Red Flag sidebars highlight warnings and precautions for certain medications or medicolegal issues. Evidence in Pharmacology sidebars highlight recent research regarding medications. Clinical Application sidebars present real-life stories from the field of athletic training. Case studies highlight specific therapeutic medication applications and are accompanied by questions that prompt readers to think critically about the issues presented. Quick reference drug tables describe medication types, generic and brand names, pronunciations, common indications, and other special considerations for the athletic trainer. Over the past decade, there has been an increased emphasis on pharmacology in athletic training. Clinical Pharmacology in Athletic Training will equip students with appropriate skills and competencies, prepare them to meet patient needs, and enable them to work in interprofessional teams.

Computational Intelligence for Decision Support Zhengxin Chen 1999-11-24
Intelligent decision support relies on techniques from a variety of disciplines, including artificial intelligence and database management systems. Most of the existing literature neglects the relationship between these disciplines. By integrating AI and DBMS, Computational Intelligence for Decision Support produces what other texts don't: an explanation of how to use AI and DBMS together to achieve high-level decision making. Threading relevant disciplines from both science and industry, the author approaches computational intelligence as the science developed for decision support. The use of computational intelligence for reasoning and DBMS for retrieval brings about a more active role for computational intelligence in decision support, and merges computational intelligence and DBMS. The introductory chapter on technical aspects makes the material accessible, with or without a decision support background. The examples illustrate the large number of applications and an annotated bibliography allows you to easily delve into subjects of greater interest. The integrated perspective creates a book that is, all at once, technical, comprehensible, and usable. Now, more than ever, it is important for science and business workers to creatively combine their knowledge to generate effective, fruitful decision support. Computational Intelligence for Decision Support makes this task manageable.

Oracle Database 11g A Beginner's Guide Ian Abramson 2009-01-08 Publisher's Note: Products purchased from Third Party sellers are not guaranteed by the publisher for quality, authenticity, or access to any online entitlements included with the product. Get a Solid Foundation in Oracle Database Technology Master Oracle Database 11g fundamentals quickly and easily. Using self-paced tutorials, this book covers core database essentials, the role of the administrator, high availability, and large database features. Oracle Database 11g: A Beginner's Guide walks you, step by step, through database setup, administration, programming, backup, and recovery. In-depth introductions to SQL and PL/SQL are included. Designed for easy learning, this exclusive Oracle Press guide offers: Core Concepts--Oracle Database 11g topics presented in logically organized chapters Critical Skills--Lists of specific skills covered in each chapter Projects--Practical exercises that show how to apply the critical skills learned in each chapter Progress Checks--Quick self-assessment sections to check your progress Notes--Extra information related to the topic being covered Mastery Checks--Chapter-ending quizzes to test your knowledge

Database System Concepts Abraham Silberschatz 2006 Database System Concepts, 5/e, is intended for a first course in databases at the junior or senior undergraduate, or first-year graduate, level. In addition to basic material for a first course, the text contains advanced material that can be used for course supplements, or as introductory material for an advanced course. The authors assume only a familiarity with basic data structures, computer organization, and a high-level programming language such as Java, C, or Pascal. Concepts are presented as intuitive descriptions, and many are based on the running example of a bank enterprise. Important theoretical results are covered, but formal proofs are omitted. In place of proofs, figures and examples are used to suggest why a result is true. The fundamental concepts and algorithms covered in the book are often based on those used in existing commercial or experimental database systems. The aim is to present these concepts and algorithms in a general setting that is not tied to one particular database system. Details of particular commercial database systems are discussed in the case studies which constitute Part 8 of the book. The fifth edition of Database System Concepts retains the overall style of prior editions while evolving the content and organization to reflect the changes that are occurring in the way databases are designed, managed, and used. Key Handles:• Early coverage of SQL in two chapters• Think of SQL as doing or creating Queries• Silberschatz uses a bank analogy throughout his text with Running Examples• Case studies are incorporated that represent a different database, this is in the last Part of the text• Focuses on cutting edge material, such as xml, web based database systems

Databases Demystified Andrew Oppel 2004-03-19 Through clear language, step-by-step discussions, and quizzes at the end of each chapter, the author makes databases easy. Quickly learn the core skills needed to design, configure, manage, and manipulate databases, whether at work or at home. Topics such as exploring different database models, planning their design, minimizing redundant data, designing tables, applying database design concepts, and implementing database security are covered. This is that fast, easy-to-understand tutorial that you've been looking for.

SQL Demystified Andrew Oppel 2005-11-15 There's no easier, faster, or more practical way to learn the really tough subjects SQL Demystified explains how to use SQL (Structured Query Language)--the ubiquitous programming language for databases. Readers will learn to create database objects, add and retrieve data from a database, and modify existing data. This self-teaching guide comes complete with key points, background information, quizzes at the end of each chapter, and even a final exam. Simple enough for beginners but challenging enough for advanced students, this is a lively and entertaining brush-up, introductory text, or classroom supplement.

Applied Data Science Martin Braschler 2019-06-13 This book has two main goals: to define data science through the work of data scientists and their results, namely data products, while simultaneously providing the reader with relevant lessons

learned from applied data science projects at the intersection of academia and industry. As such, it is not a replacement for a classical textbook (i.e., it does not elaborate on fundamentals of methods and principles described elsewhere), but systematically highlights the connection between theory, on the one hand, and its application in specific use cases, on the other. With these goals in mind, the book is divided into three parts: Part I pays tribute to the interdisciplinary nature of data science and provides a common understanding of data science terminology for readers with different backgrounds. These six chapters are geared towards drawing a consistent picture of data science and were predominantly written by the editors themselves. Part II then broadens the spectrum by presenting views and insights from diverse authors – some from academia and some from industry, ranging from financial to health and from manufacturing to e-commerce. Each of these chapters describes a fundamental principle, method or tool in data science by analyzing specific use cases and drawing concrete conclusions from them. The case studies presented, and the methods and tools applied, represent the nuts and bolts of data science. Finally, Part III was again written from the perspective of the editors and summarizes the lessons learned that have been distilled from the case studies in Part II. The section can be viewed as a meta-study on data science across a broad range of domains, viewpoints and fields. Moreover, it provides answers to the question of what the mission-critical factors for success in different data science undertakings are. The book targets professionals as well as students of data science: first, practicing data scientists in industry and academia who want to broaden their scope and expand their knowledge by drawing on the authors' combined experience. Second, decision makers in businesses who face the challenge of creating or implementing a data-driven strategy and who want to learn from success stories spanning a range of industries. Third, students of data science who want to understand both the theoretical and practical aspects of data science, vetted by real-world case studies at the intersection of academia and industry.

Data Conscience Brandeis Hill Marshall 2022-08-19 DATA CONSCIENCE ALGORITHMIC SIEGE ON OUR HUMANITY EXPLORE HOW DATA STRUCTURES CAN HELP OR HINDER SOCIAL EQUITY Data has enjoyed 'bystander' status as we've attempted to digitize responsibility and morality in tech. In fact, data's importance should earn it a spot at the center of our thinking and strategy around building a better, more ethical world. It's use-and misuse-lies at the heart of many of the racist, gendered, classist, and otherwise oppressive practices of modern tech. In *Data Conscience: Algorithmic Siege on our Humanity*, computer science and data inclusivity thought leader Dr. Brandeis Hill Marshall delivers a call to action for rebel tech leaders, who acknowledge and are prepared to address the current limitations of software development. In the book, Dr. Brandeis Hill Marshall discusses how the philosophy of "move fast and break things" is, itself, broken, and requires change. You'll learn about the ways that discrimination rears its ugly head in the digital data space and how to address them with several known algorithms, including social network analysis, and linear regression A can't-miss resource for junior-level to senior-level software developers who have gotten their hands dirty with at least a handful of significant software development projects, *Data Conscience* also provides readers with: Discussions of the importance of transparency Explorations of computational thinking in practice Strategies for encouraging accountability in tech Ways to avoid double-edged data visualization Schemes for governing data structures with law and algorithms

Fundamentals of Natural Gas Processing, Third Edition Arthur J. Kidnay 2019-10-01 Offering indispensable insight from experts in the field, *Fundamentals of Natural Gas Processing, Third Edition* provides an introduction to the gas industry and the processes required to convert wellhead gas into valuable natural gas and hydrocarbon liquids products including LNG. The authors compile information from the literature, meeting proceedings, short courses, and their own work experiences to give an

accurate picture of where gas processing technology stands today as well as to highlight relatively new technologies that could become important in the future. The third edition of this bestselling text features updates on North American gas processing and changing gas treating requirements due to shale gas production. It covers the international nature of natural gas trade, LNG, economics, and more. To help nonengineers understand technical issues, the first 5 chapters present an overview of the basic engineering concepts applicable throughout the gas, oil, and chemical industries. The following 15 chapters address natural gas processing, with a focus on gas plant processes and technologies. The book contains 2 appendices. The first contains an updated glossary of gas processing terminology. The second is available only online and contains useful conversion factors and physical properties data. Aimed at students as well as natural gas processing professionals, this edition includes both discussion questions and exercises designed to reinforce important concepts, making this book suitable as a textbook in upper-level or graduate engineering courses.

Introduction to Relational Databases and SQL Programming Christopher Allen 2003
This textbook provides a hands-on approach to relational database design and database management within an Oracle context.

eBook: Database Systems Concepts 6e SILBERSCHATZ 2010-06-16 eBook: Database Systems Concepts 6e