

CHAPTER 3: THE RELATIONAL DATA MODEL AND RELATIONAL DATABASE CONSTRAINTS**Answers to Selected Exercises**

3.11 - Suppose each of the following Update operations is applied directly to the database of Figure 3.6. Discuss all integrity constraints violated by each operation, if any, and the different ways of enforcing these constraints:

- (a) Insert < 'Robert', 'F', 'Scott', '943775543', '21-JUN-42', '2365 Newcastle Rd, Bellaire, TX, M, 58000, '888665555', 1 > into EMPLOYEE.
- (b) Insert < 'ProductA', 4, 'Bellaire', 2 > into PROJECT.
- (c) Insert < 'Production', 4, '943775543', '01-OCT-88' > into DEPARTMENT.
- (d) Insert < '67678989', null, '40.0' > into WORKS_ON.
- (e) Insert < '453453453', 'John', M, '12-DEC-60', 'SPOUSE' > into DEPENDENT.
- (f) Delete the WORKS_ON tuples with ESSN= '333445555'.
- (g) Delete the EMPLOYEE tuple with SSN= '887654321'.
- (h) Delete the PROJECT tuple with PNAME= 'ProductX'.
- (i) Modify the MGRSSN and MGRSTARTDATE of the DEPARTMENT tuple with DNUMBER=5 to '123456789' and '01-OCT-88', respectively.
- (j) Modify the SUPERSSN attribute of the EMPLOYEE tuple with SSN= '999887777' to '943775543'.
- (k) Modify the HOURS attribute of the WORKS_ON tuple with ESSN= '999887777' and PNO= 10 to '5.0'.

Answers:

(a) No constraint violations.

(b) Violates referential integrity because DNUM=2 and there is no tuple in the DEPARTMENT relation with DNUMBER=2. We may enforce the constraint by: (i) rejecting the insertion of the new PROJECT tuple, (ii) changing the value of DNUM in the new PROJECT tuple to an existing DNUMBER value in the DEPARTMENT relation, or (iii) inserting a new DEPARTMENT tuple with DNUMBER=2.

(c) Violates both the key constraint and referential integrity. Violates the key constraint because there already exists a DEPARTMENT tuple with DNUMBER=4. We may enforce this constraint by: (i) rejecting the insertion, or (ii) changing the value of DNUMBER in the new DEPARTMENT tuple to a value that does not violate the key constraint. Violates referential integrity because MGRSSN='943775543' and there is no tuple in the EMPLOYEE relation with SSN='943775543'. We may enforce the constraint by: (i) rejecting the insertion, (ii) changing the value of MGRSSN to an existing SSN value in EMPLOYEE, or (iii) inserting a new EMPLOYEE tuple with SSN='943775543'.

(d) Violates both the entity integrity and referential integrity. Violates entity integrity

Fundamentals Of Database Systems 6th Edition Solutions

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Modellierung von Business-Intelligence-Systemen Michael Hahne, 2014-07-10 Die Modellierung von Business Intelligence Systemen BI umfasst eine Vielzahl unterschiedlicher Facetten die im Kontext von Operational BI agile Warehousing Real Time und Self Service BI zu bewerten sind Dieses Buch beschreibt die Architektur und Gestaltung von unternehmensweiten analyseorientierten Informationssystemen insbesondere unter dem Aspekt zunehmend agiler Geschäftsanforderungen und deren Unterstützung durch BI Methoden Neben der Darstellung von Best Practices der Historisierung und der Data Mart Modellierung ist der Aufbau eines Enterprise Data Warehouse von zentraler Bedeutung Behandelt werden im Einzelnen Business Intelligence Architektur Mehrdimensionale Datenstrukturen Semantische mehrdimensionale Modellierung Bestandteile und Varianten des Star Schemas Historisierung und Zeitabhängigkeit im Data Warehouse Faktenmodellierung Dimensionsmodellierung Core Data Warehouse Modellierung Dieses Buch ist ein Muss für alle mit der Gestaltung und Nutzung von BI Systemen betrauten Architekten Analysten Entwickler und Projektleiter Database Modeling and Design Toby J. Teorey, Sam S. Lightstone, Tom Nadeau, H.V. Jagadish, 2011-02-10 Includes bonus chapters from the book Physical database design *Database and Expert Systems Applications* Fernando Galindo, Makoto Takizawa, Roland Traunmueller, 2004-08-19 DEXA 2004 the 15th International Conference on Database and Expert Systems Applications was held August 30 September 3 2004 at the University of Zaragoza Spain The quickly growing spectrum of database applications has led to the establishment of more specialized discussion platforms DaWaK Conference EC Web Conference EGOVConference Trustbus Conference and DEXA Workshop Every DEXA event has its own conference proceedings which were held in parallel with the DEXA Conference also in Zaragoza In your hands are the results of much effort The work begins with the preparation of the submitted papers which then go through the reviewing process The accepted papers are revised to final versions by their authors and are then arranged within the conference program All culminates in the conference itself For this conference 304 papers were submitted and I want to thank to all who contributed to it they are the real base of the conference The program committee and the supporting reviewers produced altogether 942 referee reports in average 3.1 reports per paper and selected 92 papers for presentation At this point we would like to say many thanks to all the institutions that actively supported this conference and made it possible These were University of Zaragoza FAW DEXA Association Austrian Computer Society *Effective Databases for Text & Document Management* Shirley A. Becker, 2003-01-01 Focused on the latest research on text and document management this guide addresses the information management needs of organizations by providing the most recent findings How the need for effective databases to house information is impacting organizations worldwide and how some organizations that possess a vast amount of data are not able to use the data in an economic and efficient manner is demonstrated A taxonomy for object oriented databases metrics for controlling database complexity and a guide to accommodating hierarchies in relational databases are provided Also

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genomics and pharmaceuticals intelligently analyzing these data with the aim of answering crucial questions and helping make informed decisions is the challenge that lies ahead The Encyclopedia of Data Warehousing and Mining provides a comprehensive critical and descriptive examination of concepts issues trends and challenges in this rapidly expanding field of data warehousing and mining DWM This encyclopedia consists of more than 350 contributors from 32 countries 1 800 terms and definitions and more than 4 400 references This authoritative publication offers in depth coverage of evolutions theories methodologies functionalities and applications of DWM in such interdisciplinary industries as healthcare informatics artificial intelligence financial modeling and applied statistics making it a single source of knowledge and latest discoveries in the field of DWM **Handbook of Data Intensive Computing** Borko Furht,Armando Escalante,2011-12-09 Data Intensive

Computing refers to capturing managing analyzing and understanding data at volumes and rates that push the frontiers of current technologies The challenge of data intensive computing is to provide the hardware architectures and related software systems and techniques which are capable of transforming ultra large data into valuable knowledge Handbook of Data Intensive Computing is written by leading international experts in the field Experts from academia research laboratories and private industry address both theory and application Data intensive computing demands a fundamentally different set of principles than mainstream computing Data intensive applications typically are well suited for large scale parallelism over the data and also require an extremely high degree of fault tolerance reliability and availability Real world examples are provided throughout the book Handbook of Data Intensive Computing is designed as a reference for practitioners and researchers including programmers computer and system infrastructure designers and developers This book can also be beneficial for business managers entrepreneurs and investors *The Fundamentals of Developing Operational Solutions for the Government* Chiang H. Ren,2018-06-27 The Fundamentals of Developing Operational Solutions for the Government guides professionals on how to use operations research to solve problems and capture opportunities for government customers The governments of modern democratic nations manage large complex societal operations to offer national defense social services infrastructure sustainment law enforcement monetary control and other benefits for their citizens The United States government alone spends over 1 trillion per year on these discretionary activities Within all the spending deliveries and oversight some operational needs require solutions to improve processes architectures technologies and human factors Without such effective and comprehensive solutions the most eloquent proposal for government work could end in defeat and the most well funded government programs could yield operational disruptions and performance failures There are many books on how to write winning proposals to the government but this book places winning in the context of deeply understanding government operations and innovatively solving government problems There are also some books on convincing the government to adopt new transformational processes but this book seeks to first try to fix current government processes before demanding risky transformation Finally there are massive tomes dedicated to the theories and

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of Tool Design, Sixth Edition John G. Nee, William Dufraine, John W. Evans, Mark Hill, 2010 For over 40 years students designers and manufacturing practitioners have used the Fundamentals of Tool Design to gain an in depth understanding of all the factors that impact tool success Fully illustrated readers will find practical design examples cost analysis calculations process data operating parameters and tips and techniques all of the concrete knowledge needed to spark innovation and resolve complex tooling challenges

Managing Manufacturing Knowledge in Europe in the Era of Industry 4.0

Justyna Patalas-Maliszewska, 2022-07-07 Manufacturing companies need to adapt to the requirements of functioning in the era of Industry 4.0 and major technological disruptions The use of knowledge based decision support tools has also become necessary in order for enterprises to survive in a competitive environment This book offers a new approach to designing the knowledge management process and integrating it with the implementation of Industry 4.0 technology The book presents the methods used in a customer oriented organisation for management of manufacturing knowledge More specifically methods for defining and collecting customer requirements are presented and methods on how to receive manufacturing knowledge as well as how to formalise the acquired knowledge using key technologies of Industry 4.0 are discussed The author also presents real case studies from Western and Central Europe and offers recommendations for the production manager The instrumentation of methods and tools to support knowledge management in the production of individualised products presented therein will allow the manufacturing company to be transformed digitally into a customer oriented organisation operating in accordance with the assumptions of Industry 4.0 This book will be a valuable read for production researchers academicians PhD students and postgraduate level students of industrial engineering and industrial management The practical case studies will also make the book a useful resource for managers of manufacturing enterprises

Proceedings of the Second International Conference on Computational Intelligence and Informatics

Vikrant Bhateja, João Manuel R.S. Tavares, B. Padmaja Rani, V. Kamakshi Prasad, K. Srujan Raju, 2018-07-23 The volume contains 69 high quality papers presented at International Conference on Computational Intelligence and Informatics ICCII 2017 The conference was held during 25-27 September 2017 at Department of Computer Science and Engineering JNTUHCEH Hyderabad Telangana India This volume contains papers mainly focused on data mining wireless sensor networks parallel computing image processing network security MANETS natural language processing and internet of things

Data Warehousing and Mining: Concepts, Methodologies, Tools, and Applications

Wang, John, 2008-05-31 In recent years the science of managing and analyzing large datasets has emerged as a critical area of research In the race to answer vital questions and make knowledgeable decisions impressive amounts of data are now being generated at a rapid pace increasing the opportunities and challenges associated with the ability to effectively analyze this data

Advanced Topics in Database Research

Keng Siau, 2004-01-01 The book presents the latest research ideas and topics on how to enhance current database systems improve information storage refine existing database models and develop advanced applications It provides insights into important developments in the

field of database and database management With emphasis on theoretical issues regarding databases and database management the book describes the capabilities and features of new technologies and methodologies and addresses the needs of database researchers and practitioners Note This book is part of a new series entitled Advanced Topics in Database Research This book is Volume Three within this series Vol III 2004 Linear Control System Analysis and Design with MATLAB®, Sixth Edition Constantine H. Houpis, Stuart N. Sheldon, 2013-10-30 Thoroughly classroom tested and proven to be a valuable self study companion Linear Control System Analysis and Design Sixth Edition provides an intensive overview of modern control theory and conventional control system design using in depth explanations diagrams calculations and tables Keeping mathematics to a minimum the book is designed with the undergraduate in mind first building a foundation then bridging the gap between control theory and its real world application Computer aided design accuracy checks CADAC are used throughout the text to enhance computer literacy Each CADAC uses fundamental concepts to ensure the viability of a computer solution Completely updated and packed with student friendly features the sixth edition presents a range of updated examples using MATLAB as well as an appendix listing MATLAB functions for optimizing control system analysis and design Over 75 percent of the problems presented in the previous edition have been revised or replaced **Undergraduate Instrumental Analysis, Sixth Edition** James W. Robinson, Eileen M. Skelly Frame, George M. Frame II, 2004-12-02 Completely rewritten revised and updated this Sixth Edition reflects the latest technologies and applications in spectroscopy mass spectrometry and chromatography It illustrates practices and methods specific to each major chemical analytical technique while showcasing innovations and trends currently impacting the field Many of the chapters have been individually reviewed by teaching professors and include descriptions of the fundamental principles underlying each technique demonstrations of the instrumentation and new problem sets and suggested experiments appropriate to the topic About the authors JAMES W ROBINSON is Professor Emeritus of Chemistry Louisiana State University Baton Rouge A Fellow of the Royal Chemical Society he is the author of over 200 professional papers and book chapters and several books including Atomic Absorption Spectroscopy and Atomic Spectroscopy He was Executive Editor of Spectroscopy Letters and the Journal of Environmental Science and Health both titles Marcel Dekker Inc and the Handbook of Spectroscopy and the Practical Handbook of Spectroscopy both titles CRC Press He received the B Sc 1949 Ph D 1952 and D Sc 1978 degrees from the University of Birmingham England EILEEN M SKELLY FRAME recently was Clinical Assistant Professor and Visiting Research Professor Rensselaer Polytechnic Institute Troy New York Dr Skelly Frame has extensive practical experience in the use of instrumental analysis to characterize a wide variety of substances from biological samples and cosmetics to high temperature superconductors polymers metals and alloys Her industrial career includes supervisory roles at GE Corporate Research and Development Stauffer Chemical Corporate R D and the Research Triangle Institute She is a member of the American Chemical Society the Society for Applied Spectroscopy and the American Society for Testing and Materials Dr

Skelly Frame received the B S degree in chemistry from Drexel University Philadelphia Pennsylvania and the Ph D in analytical chemistry from Louisiana State University Baton Rouge GEORGE M FRAME II is Scientific Director Chemical Biomonitoring Section of the Wadsworth Laboratory New York State Department of Health Albany He has a wide range of experience in the field and has worked at the GE Corporate R D Center Pfizer Central Research the U S Coast Guard R D Center the Maine Medical Center and the USAF Biomedical Sciences Corps He is an American Chemical Society member Dr Frame received the B A degree in chemistry from Harvard College Cambridge Massachusetts and the Ph D degree in analytical chemistry from Rutgers University New Brunswick New Jersey

What Can I Do Now Ferguson,2009 Explores career opportunities in computer related fields focusing on ten specific occupations discussing education training and skills needed salary ranges and ways to prepare for a career

Interoperating Geographic Information Systems Andrej Vckovski,Kurt E. Brassel,Hans-Jörg Schek,1999-03-04 This book constitutes the refereed proceedings of the Second International Conference on Interoperating Geographic Information Systems INTEROP 99 held in Zurich Switzerland in March 1999 The volume presents 22 revised full papers carefully reviewed and selected for inclusion in the book Also included are three invited full papers The book addresses various topics of database interoperability and spatial data processing in particular identification infrastructure implementation vectors and graphics semantics heterogeneous databases and representation

Architects' Data Ernst Neufert,2023-08-28 An indispensable tool for the initial stages of designing and planning a building project This new edition of the classic bestselling text provides in one concise volume the essential information needed as the basis for the more detailed design and development of any building project Organized largely by building type it covers the planning criteria and considerations of function and location and with over 6200 diagrams it provides a mass of data on spatial requirements Most of the featured illustrations are dimensioned and each building type includes plans sections site layouts and design details The book also includes an extensive bibliography and detailed set of metric imperial conversion tables Architects Data 6th Edition starts with the basics of designing for a new building project before moving on to covering everything an architect needs to know It also looks at the design styles and specifications for creating different types of structures such as those made for residential commercial religious cultural sports medical and other types of occupation Sixth English edition of the classic international reference for architects Covers user requirements planning criteria basic dimensions and considerations of function and siting Includes numerous examples and over 6200 illustrations and tables New in the Sixth Edition Updated sections on lighting stairs and lifts energy performance certificates and fire protection New sections on electric charging stations beekeeping and newsrooms and tiny houses Additional sections on sustainable building materials added to relevant chapters Architects Data is an excellent resource for architects building surveyors space planners and design and building contractors everywhere

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