

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, Bellairs, TX', M, 56000, '888665555', 1 > into EMPLOYEE.
- (b) Insert < 'ProductA', 4, 'Bellairs', 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

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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. Houppis, 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

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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

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Table of Contents Fundamentals Of Database Systems 6th Edition Solutions

1. Understanding the eBook Fundamentals Of Database Systems 6th Edition Solutions
 - The Rise of Digital Reading Fundamentals Of Database Systems 6th Edition Solutions
 - Advantages of eBooks Over Traditional Books
2. Identifying Fundamentals Of Database Systems 6th Edition Solutions
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Fundamentals Of Database Systems 6th Edition Solutions
 - User-Friendly Interface
4. Exploring eBook Recommendations from Fundamentals Of Database Systems 6th Edition Solutions

- Personalized Recommendations
- Fundamentals Of Database Systems 6th Edition Solutions User Reviews and Ratings
- Fundamentals Of Database Systems 6th Edition Solutions and Bestseller Lists
- 5. Accessing Fundamentals Of Database Systems 6th Edition Solutions Free and Paid eBooks
 - Fundamentals Of Database Systems 6th Edition Solutions Public Domain eBooks
 - Fundamentals Of Database Systems 6th Edition Solutions eBook Subscription Services
 - Fundamentals Of Database Systems 6th Edition Solutions Budget-Friendly Options
- 6. Navigating Fundamentals Of Database Systems 6th Edition Solutions eBook Formats
 - ePub, PDF, MOBI, and More
 - Fundamentals Of Database Systems 6th Edition Solutions Compatibility with Devices
 - Fundamentals Of Database Systems 6th Edition Solutions Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Fundamentals Of Database Systems 6th Edition Solutions
 - Highlighting and Note-Taking Fundamentals Of Database Systems 6th Edition Solutions
 - Interactive Elements Fundamentals Of Database Systems 6th Edition Solutions
- 8. Staying Engaged with Fundamentals Of Database Systems 6th Edition Solutions
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Fundamentals Of Database Systems 6th Edition Solutions
- 9. Balancing eBooks and Physical Books Fundamentals Of Database Systems 6th Edition Solutions
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Fundamentals Of Database Systems 6th Edition Solutions
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Fundamentals Of Database Systems 6th Edition Solutions
 - Setting Reading Goals Fundamentals Of Database Systems 6th Edition Solutions
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Fundamentals Of Database Systems 6th Edition Solutions

- Fact-Checking eBook Content of Fundamentals Of Database Systems 6th Edition Solutions
- Distinguishing Credible Sources

13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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