

DATABASE DESIGN: Normalization – Exercises & Answers

staffNo	dentistName	patientNo	patientName	appointment date time	surgeryNo
S1011	Tony Smith	P100	Gillian White	12-Aug-03 10.00	S10
S1011	Tony Smith	P105	Jill Bell	13-Aug-03 12.00	S15
S1024	Helen Pearson	P108	Ian MacKay	12-Sept-03 10.00	S10
S1024	Helen Pearson	P108	Ian MacKay	14-Sept-03 10.00	S10
S1032	Robin Plevin	P105	Jill Bell	14-Oct-03 16.30	S15
S1032	Robin Plevin	P110	John Walker	15-Oct-03 18.00	S13

Figure 1: Details of patient dental appointments.

(a) The table shown in Figure 1 is susceptible to update anomalies. Provide examples of insertion, deletion, and modification anomalies.

Answers:

This table is not well structured, un-normalized containing redundant data. By using a **bottom-up** approach we analyzing the given table for anomalies. First observation, we see multiple values in an appointment column and this of course violate the 1NF. By assuming the staffNo and patientNo as candidate keys, there are many anomalies exist.

Insertion anomalies:

To insert a new patient particular that makes an appointment with the designated Doctor, we need to enter the correct detail for the staff. For example, to insert the details of new patient in patientNo, patientName and an appointment, we must enter the correct details of the doctor (staffNo, dentistName) so that the patient details are consistent with values for the designated Doctor for example, S1011.

To enter new patient data that doesn't have Doctor to be assigned we can't insert NULL values for the primary key.

Deletion anomalies:

If we want to delete a patient named Ian MacKay for example, two records need to be deleted as in row 3 and 4. This anomaly also obvious when we want to delete the dentistName, multiple records needs to be deleted to maintain the data integrity.

When we delete a Dentist record, for example Tony Smith, the details about his patients also lost from the database.

Normalization Exercises And Answers

Ian Pickup



Normalization Exercises And Answers:

SQL in 24 Hours, Sams Teach Yourself Ryan Stephens, 2021-12-07 In just 24 lessons of one hour or less Sams Teach Yourself SQL in 24 Hours helps you use SQL to build effective databases efficiently retrieve data and manage everything from performance to security This Seventh Edition is thoroughly revised and reorganized for faster learning and a deeper understanding of modern SQL development Based on standardized SQL throughout it teaches using new sample code based on the free easy to use Oracle Database Express XE You ll find more hands on examples than ever culminating in an all new Bonus Exercises Workshop with even more real world practice This guide s straightforward step by step approach shows you how to work with database structures objects queries tables and more In just hours you will be applying advanced techniques from transactions and joins to complex data retrieval using views and subqueries Step by step instructions carefully walk you through the most common SQL tasks Practical hands on examples show you how to apply what you learn Quizzes and exercises help you test your knowledge and stretch your skills Notes and tips point out shortcuts and solutions Learn how to Master core relational database concepts SQL concepts and language components Clearly understand your data Set up databases and plan efficient database designs Define entities and relationships establish data structures and create database objects Normalize raw databases into logically organized tables Edit relational data and tables and manage transactions Write effective well performing queries Categorize summarize sort group and restructure data Work with dates and times Join tables in queries use subqueries and combine multiple queries Optimize performance with indexes and other techniques Administer databases and manage users Secure databases and data **Sams Teach Yourself SQL in 24 Hours** Ronald R. Plew, Ryan K. Stephens, 2003 A new edition of this title is available ISBN 10 0672330180 ISBN 13 9780672330186 Sams Teach Yourself SQL in 24 Hours Third Edition presents the key features of SQL Structured Query Language in an easy to understand format with updated code examples notes diagrams exercises and quizzes New material covers more information on transactions constructs embedded databases and object oriented programming In this edition the authors include examples based on a database like MySQL a very popular open source database **Database Design and Relational Theory** C. J. Date, 2019-12-12 Create database designs that scale meet business requirements and inherently work toward keeping your data structured and usable in the face of changing business models and software systems This book is about database design theory Design theory is the scientific foundation for database design just as the relational model is the scientific foundation for database technology in general Databases lie at the heart of so much of what we do in the computing world that negative impacts of poor design can be extraordinarily widespread This second edition includes greatly expanded coverage of exotic and little understood normal forms such as essential tuple normal form ETNF redundancy free normal form RFNF superkey normal form SKNF sixth normal form 6NF and domain key normal form DKNF Also included are new appendixes including one that provides an in depth look into the crucial notion of data consistency Sequencing of topics has

been improved and many explanations and examples have been rewritten and clarified based upon the author's teaching of the content in instructor led courses This book aims to be different from other books on design by bridging the gap between the theory of design and the practice of design The book explains theory in a way that practitioners should be able to understand and it explains why that theory is of considerable practical importance Reading this book provides you with an important theoretical grounding on which to do the practical work of database design Reading the book also helps you in going to and understanding the more academic texts as you build your base of knowledge and expertise Anyone with a professional interest in database design can benefit from using this book as a stepping stone toward a more rigorous design approach and more lasting database models

What You Will Learn Understand what design theory is and is not Be aware of the two different goals of normalization Know which normal forms are truly significant Apply design theory in practice Be familiar with techniques for dealing with redundancy Understand what consistency is and why it is crucially important Who This Book Is For Those having a professional interest in database design including data and database administrators educators and students specializing in database matters information modelers and database designers DBMS designers implementers and other database vendor personnel and database consultants

The book is product independent *Sams Teach Yourself SQL in 24 Hours* Ryan Stephens, Ron Plew, Arie D. Jones, 2011-05-13 In just 24 sessions of one hour or less you'll learn how to use SQL to build effective databases efficiently retrieve your data and manage everything from performance to security Using this book's straightforward step by step approach you'll learn hands on through practical examples Each lesson builds on what you've already learned giving you a strong real world foundation for success The authors guide you from the absolute basics to advanced techniques including views transactions Web data publishing and even powerful SQL extensions for Oracle and Microsoft SQL Server Step by step instructions carefully walk you through the most common SQL tasks Quizzes and Exercises at the end of each chapter help you test your knowledge By the Way notes present interesting information related to the discussion Did You Know tips offer advice or show you easier ways to perform tasks Watch Out cautions alert you to possible problems and give you advice on how to avoid them Learn how to Understand what SQL is how it works and what it does Define efficient database structures and objects Normalize raw databases into logically organized tables Edit relational data and tables with DML Manage database transactions Write effective well performing queries Categorize summarize sort group and restructure data Work with dates and times Join tables in queries use subqueries and combine multiple queries Master powerful query optimization techniques Administer databases and manage users Implement effective database security Use views synonyms and the system catalog Extend SQL to the enterprise and Internet Master important Oracle and Microsoft SQL Server extensions to ANSI SQL

Introducing Python Bill Lubanovic, 2019-11-06 Easy to understand and fun to read this updated edition of Introducing Python is ideal for beginning programmers as well as those new to the language Author Bill Lubanovic takes you from the basics to more involved and varied topics mixing

tutorials with cookbook style code recipes to explain concepts in Python 3 End of chapter exercises help you practice what you've learned You'll gain a strong foundation in the language including best practices for testing debugging code reuse and other development tips This book also shows you how to use Python for applications in business science and the arts using various Python tools and open source packages

Logic and Databases C. J. Date, 2007 Logic and databases are inextricably intertwined The relational model in particular is essentially just elementary predicate logic tailored to fit the needs of database management Now if you're a database professional I'm sure this isn't news to you but you still might not realize just how much everything we do in the database world is or should be affected by predicate logic Logic is everywhere So if you're a database professional you really owe it to yourself to understand the basics of formal logic and you really ought to be able to explain and perhaps defend the connections between formal logic and database management And that's what this book is about What it does is show through a series of partly independent and partly interrelated essays just how various crucial aspects of database technology some of them very familiar others maybe less so are solidly grounded in formal logic It is divided into five parts Basic Logic Logic and Database Management Logic and Database Design Logic and Algebra Logic and the Third Manifesto There's also a lengthy appendix containing a collection of frequently asked questions and some answers on various aspects of logic and database management Overall my goal is to help you realize the importance of logic in everything you do and also I hope to help you see that logic can be fun

Sams Teach Yourself SQL in 21 Days Ryan K. Stephens, Ronald R. Plew, 2003 Sams Teach Yourself SQL in 21 Days Fourth Edition provides a solid foundation in understanding the fundamentals of SQL Structured Query Language SQL is the query language used by relational databases such as Oracle Microsoft Access and Microsoft SQL Server The new edition covers object oriented programming with SQL ODBC JDBC embedded SQL accessing remote databases and constructs All new examples based on an open source database such as MySQL enhance this new edition by making the examples readily useable for readers

[Student Solutions Manual to Accompany Atkins' Physical Chemistry 11th Edition](#) Peter Bolgar, Vladimiras Oleinikovas, Aimee North, Haydn Lloyd, James Keeler, Stephanie Smith, 2018 The Student Solutions Manual to accompany Atkins Physical Chemistry 11th Edition provides full worked solutions to the exercises and the odd numbered discussion questions and problems presented in the parent book The manual is intended for students and provides helpful comments and friendly advice to aid understanding

SAMS Teach Yourself Database Programming with Visual Basic 6 in 21 Days Curtis Smith, Michael Amundsen, 1998 Ready to use building blocks for integrated circuit design Why start coding from scratch when you can work from this library of pre tested routines created by an HDL expert There are plenty of introductory texts to describe the basics of Verilog but Verilog Designer's Library is the only book that offers real reusable routines that you can put to work right away Verilog Designer's Library organizes Verilog routines according to functionality making it easy to locate the material you need Each function is described by a behavioral model to use for simulation followed by the RTL code you'll use to synthesize the gate level

implementation Extensive test code is included for each function to assist you with your own verification efforts Coverage includes Essential Verilog coding techniques Basic building blocks of successful routines State machines and memories Practical debugging guidelines Although Verilog Designer's Library assumes a basic familiarity with Verilog structure and syntax it does not require a background in programming Beginners can work through the book in sequence to develop their skills while experienced Verilog users can go directly to the routines they need Hardware designers systems analysts VARs OEMs software developers and system integrators will find it an ideal sourcebook on all aspects of Verilog development

Oracle SQL by Example Alice Rischert, 2009-08-12 The World's 1 Hands On Oracle SQL Workbook Fully Updated for Oracle 11g Crafted for hands on learning and tested in classrooms worldwide this book illuminates in depth every Oracle SQL technique you'll need From the simplest query fundamentals to regular expressions and with newly added coverage of Oracle's powerful new SQL Developer tool you will focus on the tasks that matter most Hundreds of step by step guided lab exercises will systematically strengthen your expertise in writing effective high performance SQL Along the way you'll acquire a powerful arsenal of useful skills and an extraordinary library of solutions for your real world challenges with Oracle SQL Coverage includes 100% focused on Oracle SQL for Oracle 11g today's 1 database platform not generic SQL Master all core SQL techniques including every type of join such as equijoins self joins and outer joins Understand Oracle functions in depth especially character number date timestamp interval conversion aggregate regular expressions analytical and more Practice all types of subqueries such as correlated and scalar subqueries and learn about set operators and hierarchical queries Build effective queries and learn fundamental Oracle SQL Developer and SQL Plus skills Make the most of the Data Dictionary and create tables views indexes and sequences Secure databases using Oracle privileges roles and synonyms Explore Oracle 11g's advanced data warehousing features Learn many practical tips about performance optimization security and architectural solutions Avoid common pitfalls and understand and solve common mistakes For every database developer administrator designer or architect regardless of experience

Data Mining and Knowledge Discovery for Geoscientists Guangren Shi, 2013-10-09 Currently there are major challenges in data mining applications in the geosciences This is due primarily to the fact that there is a wealth of available mining data amid an absence of the knowledge and expertise necessary to analyze and accurately interpret the same data Most geoscientists have no practical knowledge or experience using data mining techniques For the few that do they typically lack expertise in using data mining software and in selecting the most appropriate algorithms for a given application This leads to a paradoxical scenario of rich data but poor knowledge The true solution is to apply data mining techniques in geosciences databases and to modify these techniques for practical applications Authored by a global thought leader in data mining Data Mining and Knowledge Discovery for Geoscientists addresses these challenges by summarizing the latest developments in geosciences data mining and arming scientists with the ability to apply key concepts to effectively analyze and interpret vast amounts of critical information

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Chemist's Guide to Valence Bond Theory Sason S. Shaik,Philippe C. Hiberty,2007-12-04 This reference on current VB theory and applications presents a practical system that can be applied to a variety of chemical problems in a uniform manner After explaining basic VB theory it discusses VB applications to bonding problems aromaticity and antiaromaticity the dioxygen molecule polyradicals excited states organic reactions inorganic organometallic reactions photochemical reactions and catalytic reactions With a guide for performing VB calculations exercises and answers and numerous solved problems this is the premier reference for practitioners and upper level students **Application Software and Web**

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ideas of structural proof theory contains a thorough discussion and comparison of various types of formalization of first order logic Examples are given of several areas of application namely the metamathematics of pure first order logic intuitionistic as well as classical the theory of logic programming category theory modal logic linear logic first order arithmetic and second order logic In each case the aim is to illustrate the methods in relatively simple situations and then apply them elsewhere in much more complex settings There are numerous exercises throughout the text In general the only prerequisite is a standard course in first order logic making the book ideal for graduate students and beginning researchers in mathematical logic theoretical computer science and artificial intelligence For the new edition many sections have been rewritten to improve clarity new sections have been added on cut elimination and solutions to selected exercises have been included **Sams**

Teach Yourself MySQL in 21 Days Anthony Butcher,Tony Butcher,2002 This guide teaches readers how to design and implement their an open source database Topics include designing and creating a database normalizing data adding tables columns and indexes importing and exporting data administering optimizing and troubleshooting My SQL and locks and keys

Resources in Education ,1990 *SQL and Relational Theory* C.J. Date,2009-01-23 Understanding SQL's underlying theory is the best way to guarantee that your SQL code is correct and your database schema is robust and maintainable On the other hand if you're not well versed in the theory you can fall into several traps In *SQL and Relational Theory* author C J Date demonstrates how you can apply relational theory directly to your use of SQL With numerous examples and clear

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Unveiling the Magic of Words: A Review of "**Normalization Exercises And Answers**"

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