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

Scott E Umbaugh

Normalization Exercises And Answers:

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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 **Mathematical Methods for Engineering and Science Students** M. J. Englefield,1987 Database Design and Relational Theory Chris Date,2012-04-17 Because databases often stay in production for decades careful design is critical to making the database serve the needs of your users over years and to avoid subtle errors or performance problems In this book C J Date a leading exponent of relational databases lays out the principles of good database design Basic Proof Theory A. S. Troelstra,H. Schwichtenberg,2000-07-27 This introduction to the basic 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 **Answering Queries Using Views, Second Edition** Foto Afrati,Rada Chirkova,2022-05-31 The topic of using views to answer queries has been popular for a few decades now as it cuts across domains such as query optimization information integration data warehousing website design and recently database as a service and data placement in cloud systems This book assembles foundational work on answering queries using views in a self contained manner with an effort to choose material that constitutes the backbone of the research It presents efficient algorithms and covers the following problems query containment rewriting queries using views in various logical languages equivalent rewritings and maximally contained rewritings and computing certain answers in the data integration and data exchange settings Query languages that are considered are fragments of SQL in particular select project join queries also called conjunctive queries with or without arithmetic comparisons or negation and aggregate SQL queries This second edition includes twonew chapters that refer to tree like data and respective query languages Chapter 8 presents the data model for XML documents and the XPath query language and Chapter 9 provides a theoretical presentation of tree like data model and query language where the tuples of a relation share a tree structured schema for that relation and the query language is a dialect of SQL with evaluation techniques appropriately modified to fit the richer schema *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 **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 Focuses on 22 of data mining s most practical algorithms and popular application samples Features 36 case studies and end of chapter exercises unique to the geosciences to underscore key data mining applications Presents a practical and integrated system of data mining and knowledge discovery for geoscientists Rigorous yet broadly accessible to geoscientists engineers researchers and programmers in data mining Introduces widely used algorithms their basic principles and conditions of applications diverse case studies and suggests algorithms that may be suitable for specific applications **Digital Image Processing and Analysis** Scott E Umbaugh,2023-01-18 Computer Vision and Image Analysis focuses on techniques and methods for image analysis and their use in the development of computer vison applications The field is advancing at an ever increasing pace with applications ranging from medical diagnostics to space exploration The diversity of applications is one of the driving forces that make it such an exciting field to be involved in for the 21st century This book presents a unique engineering approach to the practice of computer vision and image analysis which starts by presenting a global model to help gain an understanding of the overall process followed by a breakdown and explanation of each individual topic Topics are presented as they become necessary for understanding the practical imaging model under study which provides the reader with the motivation to learn about and use the tools and methods being explored The book includes chapters on image systems and software image analysis edge line and shape detection image segmentation feature extraction and pattern classification Numerous examples including over 500 color images are used to illustrate the concepts discussed Readers can explore their own application development with any programming languages including C C MATLAB Python and R and software is provided for both the Windows C C and MATLAB environments The book can be used by the academic community in teaching and research with over 700 PowerPoint Slides and a complete Solutions Manual to the over 150 included problems It can also be used for self study by those involved with developing computer vision applications whether they are engineers scientists or artists The new edition has been extensively updated and includes numerous problems and programming exercises that will help the reader and student to develop their skills

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