

# Normalization Questions and Answers

Database Systems, CSCI 4380-01  
Sibel Adalı

October 28, 2002

**Question 1** Suppose you are given a relation  $R = (A, B, C, D, E)$  with the following functional dependencies:  $\{CE \rightarrow D, D \rightarrow B, C \rightarrow A\}$ .

- Find all candidate keys.
- Identify the best normal form that R satisfies (1NF, 2NF, 3NF, or BCNF).
- If the relation is not in BCNF, decompose it until it becomes BCNF. At each step, identify a new relation, decompose and re-compute the keys and the normal forms they satisfy.

**Answer.**

- The only key is  $\{C, E\}$
- The relation is in 1NF
- Decompose into  $R1=(A,C)$  and  $R2=(B,C,D,E)$ . R1 is in BCNF. R2 is in 2NF. Decompose R2 into,  $R21=(C,D,E)$  and  $R22=(B,D)$ . Both relations are in BCNF.

**Question 2** Suppose you are given a relation  $R=(A,B,C,D,E)$  with the following functional dependencies:  $\{BC \rightarrow ADE, D \rightarrow B\}$ .

- Find all candidate keys.
- Identify the best normal form that R satisfies (1NF, 2NF, 3NF, or BCNF).
- If the relation is not in BCNF, decompose it until it becomes BCNF. At each step, identify a new relation, decompose and re-compute the keys and the normal forms they satisfy.

**Answer.**

- The keys are  $\{B, C\}$  and  $\{C, D\}$
- The relation is in 3NF
- It cannot be put into BCNF, even if I remove D and put into a relation of the form  $(B,C,D)$  (I need C for the functional dependency), the resulting relation would not be in BCNF.

**Question 3** Suppose you are given a relation  $R=(A,B,C,D,E)$  with the following functional dependencies:  $BD \rightarrow E, A \rightarrow C$ .

- Show that the decomposition into  $R1=(A,B,C)$  and  $R2=(D,E)$  is lossy. You can show using any method. My suggestion is to show how spurious tuples result from this decomposition with respect to the table below:

A	B	C	D	E
1	2	3	4	5
1	8	3	4	4

# Normalization Questions With Answers

**Erik J Olsson, Sebastian Enqvist**



## **Normalization Questions With Answers:**

**System Analysis and Design Interview Questions and Answers** Manish Soni, 2024-11-13 The world of technology is ever evolving with new innovations and methodologies constantly reshaping the landscape Among the critical skills in this dynamic field is the ability to conduct thorough system analysis and design This discipline forms the backbone of successful software development ensuring that systems are efficient effective and scalable Whether you are a fresher stepping into the professional realm or an experienced individual looking to refine your expertise mastering system analysis and design is indispensable This book System Analysis and Design Interview Questions and Answers is meticulously crafted to serve as a comprehensive resource for those preparing to face interviews in this domain The primary aim is to bridge the gap between theoretical knowledge and practical application equipping you with the tools and confidence needed to excel in your interviews Why This Book Interviews can be daunting especially in a field as nuanced as system analysis and design The questions posed often test not only your knowledge but also your problem solving abilities critical thinking and adaptability This book addresses these challenges by providing

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Manish Soni,2024-11-13 Welcome to R Programming Interview Questions it is a comprehensive resource that delves deep into the fundamental and advanced aspects of R offering insights that go beyond rote learning and superficial understanding Whether you are learning the basics of data manipulation grappling with statistical analysis or exploring advanced programming techniques this book provides clear concise explanations accompanied by practical examples These examples are drawn from real world scenarios ensuring that you not only learn how to answer questions but also understand the context in which these concepts are applied in professional settings

*Information Retrieval Technology* Fu Lee Wang,Haoran Xie,Wai Lam,Aixin Sun,Lun-Wei Ku,Tianyong Hao,Wei Chen,Tak-Lam Wong,Xiaohui Tao,2020-02-26 This book constitutes the refereed proceedings of the 15th Information Retrieval Technology Conference AIRS 2019 held in Hong Kong China in November 2019 The 14 full papers presented together with 3 short papers were carefully reviewed and selected from 27 submissions The scope of the conference covers applications systems technologies and theory aspects of information retrieval in text audio image video and multimedia data

**Daily Report** United States. Foreign Broadcast Information Service,1978

*Database Management System MCQ (Multiple Choice Questions)* Arshad Iqbal,2019-06-11 The Database Management System Multiple Choice Questions MCQ Quiz with Answers PDF DBMS MCQ PDF Download Quiz Questions Chapter 1 14 Practice Tests with Answer Key DBMS Questions Bank MCQs Notes includes revision guide for problem solving with hundreds of solved MCQs Database Management System MCQ with Answers PDF book covers basic concepts analytical and practical assessment tests Database Management System MCQ PDF book helps to practice test questions from exam prep notes The Database Management System MCQs with Answers PDF eBook includes revision guide with verbal quantitative and analytical past papers solved MCQs Database Management System Multiple Choice Questions and Answers MCQs PDF Free download chapter 1 a book covers solved quiz questions and answers on chapters Modeling entity relationship model database concepts and architecture database design methodology and UML diagrams database management systems disk storage file structures and hashing entity relationship modeling file indexing structures functional dependencies and normalization introduction to SQL programming techniques query processing and optimization algorithms relational algebra and calculus relational data model and database constraints relational database design algorithms dependencies schema definition constraints queries and views tests for college and university revision guide Database Management System Quiz Questions and Answers PDF free download eBook s sample covers beginner s solved questions textbook s study notes to practice online tests The book DBMS MCQs Chapter 1 14 PDF includes CS question papers to review practice tests for exams Database Management System Multiple Choice Questions MCQ with Answers PDF digital

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**Belief Revision meets Philosophy of Science** Erik J Olsson, Sebastian Enqvist, 2010-10-27 Belief revision theory and philosophy of science both aspire to shed light on the dynamics of knowledge on how our view of the world changes typically in the light of new evidence Yet these two areas of research have long seemed strangely detached from each other as witnessed by the small number of cross references and researchers working in both domains One may speculate as to what has brought about this surprising and perhaps unfortunate state of affairs One factor may be that while belief revision theory has traditionally been pursued in a bottom up manner focusing on the endeavors of single inquirers philosophers of science inspired by logical empiricism have tended to be more interested in science as a multi agent or agent independent phenomenon

**Evaluation of Multilingual and Multi-modal Information Retrieval** Cross-Language Evaluation Forum. Workshop, Carol Peters, 2007-09-06 This book constitutes the thoroughly refereed postproceedings of the 7th Workshop of the Cross Language Evaluation Forum CLEF 2006 held in Alicante Spain September 2006 The revised papers presented together with an introduction were carefully reviewed and selected for inclusion in the book The papers are organized in topical sections on Multilingual Textual Document Retrieval Domain Specific Information Retrieval i CLEF QA CLEF Image CLEF CLSR Web CLEF and GeoCLEF

**Natural Language Processing and Information Systems** Gosse Bouma, Ashwin Ittoo, Elisabeth Métais, Hans Wortmann, 2012-06-22 This book constitutes the refereed proceedings of the 17th International Conference on Applications of Natural Language to Information Systems held in Groningen The Netherlands in June 2012 The 12 full papers 24 short papers and 16 poster papers presented in this volume together with a full paper length invited talks were carefully reviewed and selected from 90 submissions The rapidly evolving state of the art in NLP and the shifting interest to applications targeting document and data collections available on the Web

including an increasing amount of user generated content is reflected in the contributions to this book Topics covered are information retrieval text classification and clustering summarization normalization of user generated content forensic NLP ontologies and natural language sentiment analysis question answering and information extraction terminology and named entity recognition and NLP tools development      **Auto-Grader - Auto-Grading Free Text Answers** Robin

Richner,2022-10-14 Teachers spend a great amount of time grading free text answer type questions To encounter this challenge an auto grader system is proposed The thesis illustrates that the auto grader can be approached with simple recurrent and Transformer based neural networks Hereby the Transformer based models has the best performance It is further demonstrated that geometric representation of question answer pairs is a worthwhile strategy for an auto grader Finally it is indicated that while the auto grader could potentially assist teachers in saving time with grading it is not yet on a level to fully replace teachers for this task      **Security Assistance to Asia for Fiscal Year 1978** United States. Congress.

House. Committee on International Relations. Subcommittee on Asian and Pacific Affairs,1977      **Machine Learning and Knowledge Discovery in Databases** Peggy Cellier,Kurt Driessens,2020-03-27 This two volume set constitutes the refereed proceedings of the workshops which complemented the 19th Joint European Conference on Machine Learning and Knowledge Discovery in Databases ECML PKDD held in W rzburg Germany in September 2019 The 70 full papers and 46 short papers presented in the two volume set were carefully reviewed and selected from 200 submissions The two volumes CCIS 1167 and CCIS 1168 present the papers that have been accepted for the following workshops Workshop on Automating Data Science ADS 2019 Workshop on Advances in Interpretable Machine Learning and Artificial Intelligence and eXplainable Knowledge Discovery in Data Mining AIMLAI XKDD 2019 Workshop on Decentralized Machine Learning at the Edge DMLE 2019 Workshop on Advances in Managing and Mining Large Evolving Graphs LEG 2019 Workshop on Data and Machine Learning Advances with Multiple Views Workshop on New Trends in Representation Learning with Knowledge Graphs Workshop on Data Science for Social Good SoGood 2019 Workshop on Knowledge Discovery and User Modelling for Smart Cities UMCIT 2019 Workshop on Data Integration and Applications Workshop DINA 2019 Workshop on Machine Learning for Cybersecurity MLCS 2019 Workshop on Sports Analytics Machine Learning and Data Mining for Sports Analytics MLSA 2019 Workshop on Categorising Different Types of Online Harassment Languages in Social Media Workshop on IoT Stream for Data Driven Predictive Maintenance IoTStream 2019 Workshop on Machine Learning and Music MML 2019 Workshop on Large Scale Biomedical Semantic Indexing and Question Answering BioASQ 2019      **Haystack for Natural Language**

**Search and Question Answering** William Smith,2025-07-11 Haystack for Natural Language Search and Question Answering Haystack for Natural Language Search and Question Answering is the definitive guide for practitioners and organizations seeking to build robust scalable and intelligent question answering QA systems This comprehensive book provides both a conceptual foundation and a hands on roadmap tracing the evolution from traditional keyword based

information retrieval to state of the art neural powered QA pipelines It methodically maps out the biggest challenges in real world search and QA disambiguation context retention latency and knowledge management demonstrating Haystack s pivotal role in modernizing enterprise search conversational agents and document understanding Delving deeply into technical architecture the book details Haystack s modular pipeline abstractions integration with model hubs and extensibility via custom retrievers readers and plugins Readers gain practical insight into data modeling preprocessing indexing strategies and retrieval methods ranging from sparse techniques like BM25 to dense and hybrid approaches leveraging advanced neural models and embeddings End to end guidance is provided for pipeline design orchestration monitoring and optimization ensuring that readers can deploy performant and reliable systems suited for high scale production environments Security privacy and responsible AI are woven throughout with expert treatment of threat modeling compliance GDPR HIPAA bias mitigation and explainability The book also explores the cutting edge integrating with knowledge graphs handling continuous learning supportive of edge computing and achieving interoperability with leading frameworks like RAG and LangChain Real world case studies anchor the concepts offering invaluable lessons for building safe robust and future ready natural language search and QA solutions with Haystack

#### **Question Answering over Text and Knowledge Base**

Saeedeh Momtazi,Zahra Abbasiantaeb,2022-11-04 This book provides a coherent and complete overview of various Question Answering QA systems It covers three main categories based on the source of the data that can be unstructured text TextQA structured knowledge graphs KBQA and the combination of both Developing a QA system usually requires using a combination of various important techniques including natural language processing information retrieval and extraction knowledge graph processing and machine learning After a general introduction and an overview of the book in Chapter 1 the history of QA systems and the architecture of different QA approaches are explained in Chapter 2 It starts with early close domain QA systems and reviews different generations of QA up to state of the art hybrid models Next Chapter 3 is devoted to explaining the datasets and the metrics used for evaluating TextQA and KBQA Chapter 4 introduces the neural and deep learning models used in QA systems This chapter includes the required knowledge of deep learning and neural text representation models for comprehending the QA models over text and QA models over knowledge base explained in Chapters 5 and 6 respectively In some of the KBQA models the textual data is also used as another source besides the knowledge base these hybrid models are studied in Chapter 7 In Chapter 8 a detailed explanation of some well known real applications of the QA systems is provided Eventually open issues and future work on QA are discussed in Chapter 9 This book delivers a comprehensive overview on QA over text QA over knowledge base and hybrid QA systems which can be used by researchers starting in this field It will help its readers to follow the state of the art research in the area by providing essential and basic knowledge

#### **Database Management System (DBMS): A Practical Approach, 5th Edition Chopra**

Rajiv, This comprehensive book now in its Fifth Edition continues to discuss the principles and concept of Database



Management System DBMS It introduces the students to the different kinds of database management systems and explains in detail the implementation of DBMS The book provides practical examples and case studies for better understanding of concepts and also incorporates the experiments to be performed in the DBMS lab A competitive pedagogy includes Summary MCQs Conceptual Short Questions with answers and Exercise Questions **Program Issues in Developmental**

**Disabilities** James F. Gardner,1980 Ressources l'intention des dispensateurs de services afin de d'finir une ad quation entre leurs services la personne qu'ils desservent et les standards labor s par les lois les principes de normalization les besoins des personnes ayant une d'ficiency intellectuelle et les structures de services existantes **Sams Teach Yourself SQL in**

**21 Days** Ryan K. Stephens,Ronald R. Plew,2003 Sams Teach Yourself SQL in 21 Days Fourth Editionprovides 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

**Commonsense Reasoning** Erik T. Mueller,2014-11-11 To endow computers with common sense is one of the major long term goals of artificial intelligence research One approach to this problem is to formalize commonsense reasoning using mathematical logic Commonsense Reasoning An Event Calculus Based Approach is a detailed high level reference on logic based commonsense reasoning It uses the event calculus a highly powerful and usable tool for commonsense reasoning which Erik Mueller demonstrates as the most effective tool for the broadest range of applications He provides an up to date work promoting the use of the event calculus for commonsense reasoning and bringing into one place information scattered across many books and papers Mueller shares the knowledge gained in using the event calculus and extends the literature with detailed event calculus solutions that span many areas of the commonsense world The Second Edition features new chapters on commonsense reasoning using unstructured information including the Watson system commonsense reasoning using answer set programming and techniques for acquisition of commonsense knowledge including crowdsourcing Understand techniques for automated commonsense reasoning Incorporate commonsense reasoning into software solutions Acquire a broad understanding of the field of commonsense reasoning Gain comprehensive knowledge of the human capacity for commonsense reasoning *Interpreting Motion* Inderjeet Mani,James Pustejovsky,2012-02-16 Interpreting Motion

shows how language structures constrain concepts of motion analyzing the semantics of motion expressions in a range of contexts from route navigation to textual description It is written for a broad audience including linguists cognitive and computer scientists and those working in GIS and artificial intelligence **Federal Energy Regulatory Commission**

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