

Data Architect Interview Questions And Answers

Gold mine of microservices interview Questions & Answers for aspirants and domain experts. DESCRIPTION An SME typically attends several interviews and discussions for jobs or projects during his or her career. There is always a dire need to look up and read multiple books and references before these interviews/discussions so that you stay on top of things. This book will assist software engineers, programmer analysts, designers, consultants, technical, and solution, domain, and enterprise architects to perform well in microservices interview discussions and to launch a successful career. This book also tackles the NFR domain, which is the key aspect to be addressed while creating microservices applications. This book will also assist SMEs to become competent in their respective areas. Usually, it takes a good amount of time to understand the core concepts, fundamentals, patterns, and principles but this book is a gold mine of topics that are typically discussed during a microservices interview. The book is an honest attempt to share with practitioners, SMEs, and aspirants my experiences, learning, insights and proven methodologies that will benefit them in the long run. Interviewers will also be able to leverage this book to make sure they hire candidates with the right competencies depending on the job requirements. The primary audiences for this title are the gamut of roles starting from IT consultants, Programmer Analysts, Software Engineers, Solution Architects, and Interview Panelists who support strategic and tactical engagements for Fortune 100 customers worldwide. This title is for SMEs with background and competencies in architecture, design, and development of microservices-based applications and people who would like to gain advanced and next-level skills. The book provides a comprehensive approach for preparing for job interviews. It covers all key domains including, Core & Advance Concepts, Patterns, Frameworks & Tools, and DevOps. KEY FEATURES ? More than 200 questions in 5 domains including a chapter on patterns, practices, and NFRs. ? Extended coverage from architecture, design, development to NFRs domains. ? The book can be selectively read based on the relevant domains. ? Extensive coverage in terms of depth and breadth of domains. ? The title has more than 50 diagrams depicting various scenarios, models, and methodologies. WHAT WILL YOU LEARN ? Concepts, principles, and guidelines for various domains for the microservices ecosystem. ? This book presents an exhaustive question bank with special emphasis on practical scenarios and business cases. ? Based on our experience, we assure that at least 80% of the contents will be discussed during a typical interview. ? Common pitfalls to be avoided and patterns to leverage ? Frameworks, methodologies, and design approach leveraged for microservices topologies ? Design guidelines used for architecting microservices applications & systems ? Provides a holistic view of key concepts, design principles, and patterns related to evangelizing microservices applications ? Leverage the book as a reference guide for adopting best practices, standards, and design guidelines ? Extensive coverage in terms of depth and breadth of domains. The book can also be read selectively as per the choice of domain. ? This book has more than two hundred questions in five domains and around 50 depictions. WHO THIS BOOK IS FOR This book is for Enterprise Architects, Solution Architects, and Technical Architects/Designers, Project Managers, Programmer Analysts and Software Engineers, Students and Interview Panelists TABLE OF CONTENTS 1. Introduction 2. Core Concepts 3. Advance Concepts 4. Patterns, Practices and NFRs 5. Tools and Frameworks 6. DevOps

Introduction: Top 50 Microservices Interview Questions & Answers Updated: 2020 version Latest Architecture:

Microservices is the latest trend in Technology world. It is the new architecture on which very few books have been written. If you are aiming to get a job in companies with Microservices architecture like- Netflix, Amazon etc. then this book can help you prepare for the technical interview. Q & A Format: This book also covers Architect level information in Q&A format for easy grasp of the concept. This book helps you in understanding the deep concepts behind Microservices in a Q&A format. It is an important topic for a software developer to know about Microservices. Great Compilation: It is a compilation of advanced Microservices interview questions after attending dozens of technical interviews in top-notch companies like- Facebook, Google, Ebay, Amazon etc. Each question is accompanied with an answer so that you can prepare for job interview in short time. Practical Purpose: Often, these questions and concepts are used in our daily programming work. But these are most helpful when an Interviewer is trying to test your deep knowledge of Microservices concepts. How will this book help me? By reading this book, you do not have to spend time searching the Internet for Microservices interview questions. We have already compiled the list of the most popular and the latest Microservices Interview questions. Are there answers in this book? Yes, in this book each question is followed by an answer. So you can save time in interview preparation. What is the best way of reading this book? You have to first do a slow reading of all the questions in this book. Once you go through them in the first pass, mark the questions that you could not answer by yourself. Then, in second pass go through only the difficult questions. After going through this book 2-3 times, you will be well prepared to face a technical interview in Microservices architecture. What is the level of questions in this book? This book contains questions that are good for a Associate Software engineer to an Architect level. The difficulty level of question varies in the book from a Fresher to an Experienced professional. What are the sample questions in this book? What are the characteristics of a Good Microservice? Is it a good idea for Microservices to share a common database? What are the issues in using REST over HTTP for Microservices? What is Reactive Extensions? What is Semantic Versioning? What is Continuous Integration? What is Ubiquitous language? What is Mike Cohn's Test Pyramid? How can we eradicate non-determinism in tests? What is PACT? What is a Consumer Driven Contract (CDC)? What is Canary Releasing? How can we separate Deployment from Release of Microservices? How will you implement Service Discovery in Microservices architecture? What is the difference between Orchestration and Choreography in Microservices architecture?

As representatives from the IT community, all of us have had our own experiences of attending interviews - clearing or close to clearing and sometimes with tons of questions and doubts failing miserably. These stories are in the most

pleasant or not so pleasant memories of our mind and we will assure you this book will kindle those memories for sure. We have taken tons of interviews and most of the interviews are not revolving around how deep technical and internals you know about the subject - but it revolves around how good you are with the basics. To clear an interview, one doesn't need to know inside-out of a subject, and subjects like "SQL Server" so vast that every single day we learn something new with this product, and even a complete lifetime will fly off if we keep doing this. Again, the various roles one can get into for products like SQL Server are from Database Developer, Database Modelers, Database Architect, Database Administrator and many more. Hence, this book is geared towards demystifying and a refresher for memories on the fundamentals which sometimes are the most important things to clear any type of interview for any role. Some of the concepts discussed are generic and are not tied to any specific version of SQL Server, but most of it the new features introduced with SQL Server have been included in this book. This book is not a shortcut or a sure to crack interview guide but this book gets you prepared in an organized manner. Let us also assure you this is neither a completely comprehensive guide but surely is a great starter nevertheless. Use this to guide you and be mentally prepared for the big day. When faced with this big day, we get overwhelmed and confused about where to start our preparation. And this book is just that secret recipe in your arsenal to get geared up. Sometimes these basics will help you narrow to a solution quickly when given a scenario. Now this book's flow is "Question & Answer" mode from start till the end to help you grasp the concepts faster and to the point. Once you get an understanding of concepts, then if we are twisted with the concept in a scenario it becomes easy to solve them. Most companies have a typical way to do interviews which are based on the scenario as per their environment and these are just combinations of the concepts to fit their need and SLA. Though each of these chapters is bucketed for convenience we highly recommend reading each of the sections nevertheless irrespective of the roles you might be doing as each of the sections have some interesting trivia's working with SQL Server. In the industry, the role of accidental DBA's especially with SQL Server is so common. Hence if you have performed the role of DBA for a short stint and want to brush-up your fundamentals then the respective sections will be a great skim.

Get answers to frequently asked questions on Data Science and Machine Learning using R
KEY FEATURES - Understand the capabilities of the R programming language - Most of the machine learning algorithms and their R implementation covered in depth - Answers on conceptual data science concepts are also covered
DESCRIPTION This book prepares you for the Data Scientist and Machine Learning Engineer interview w.r.t. R programming language. The book is divided into various parts, making it easy for you to remember and associate with the questions asked in an interview. It covers multiple possible transformations and data filtering techniques in depth. You will be able to create visualizations like graphs and charts using your data. You will also see some examples of how to build complex charts with this data. This book covers the frequently asked interview questions and shares insights on the kind of answers that will help you get this job. By the end of this book, you will not only crack the interview but will also have a solid command of the concepts of Data Science as well as R programming.
WHAT WILL YOU LEARN - Get answers to the basics, intermediate and advanced questions on R programming - Understand the transformation and filtering capabilities of R - Know how to perform visualization using R
WHO THIS BOOK IS FOR This book is a must for anyone interested in Data Science and Machine Learning. Anyone who wants to clear the interview can use it as a last-minute revision guide.
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Step by step guide to become an expert in Angular
Key features Book provide all the important aspects required for angular developers
Learn modern Web Frameworks like AngularJS 1.x, KnockoutJs, Ember, Backbone Book will give you an idea of the Angular framework (including version 2, 4, 5 and 6) and provide you an excellent understanding of the concepts.
Description This book provide all the important aspects required for angular developers looking for brief and useful content for frequently asked Angular Interview questions. You have already worked with other Modern Web Frameworks like AngularJS 1.x, KnockoutJs, Ember, Backbone and now you are keen to become an expert in Angular including version 2, 4, 5 and 6. You have no framework experience at all but you have a profound understanding of Angular and now you are keen to know how to bring your web apps as well as mobile apps to the next level. This book will give you an idea of the Angular framework (including version 2, 4, 5 and 6) and provide you an excellent understanding of the concepts. Changing job is one of the biggest challenges for any IT professional. When IT professional starts searching job, they realise that they need much more than experience. Working on a project is one thing and cracking an interview is another. This book will give you a bird's eye view of what is needed in an interview. It will help you in doing a quick revision so that you can be ready for the discussion faster. What will you learn
The Basic Concepts of Angular, its Components, Directives and Modules Angular Form, Elements, Templates, and Validations
Dependency Injection (DI), HttpClient Angular Services, Routing and Navigation
Angular Compiler, Pipes, Service Workers Server Side Rendering (Angular Universal) Angular Security, Cookies
Basic Understanding of Angular Testing and TypeScript
Who this book is for You are new or have some experience in Angular and now want to take the step to become an expert in Angular and want to learn more about how you can apply the new concepts specifically for an Interview or developing robust web apps as well as mobile apps.
Table of contents 1. The Basic Concepts of Angular 2. Angular Components 3. Angular Directives 4. Angular Modules 5. Angular Form, Templates, and Validations 6. Angular Elements 7. Dependency Injection (DI) 8. HttpClient 9. Angular Services 10. Routing and Navigation 11. Angular Compiler 12. Angular Pipes 13. Service Workers 14. Server-Side Rendering (Angular Universal) 15. Angular Security 16. Angular Cookies 17. Basic Understanding of Angular Testing 18. Basic Understanding of TypeScript
About the author Anil Singh has done B.Sc. (Mathematics) and MCA (Master of Computer Application). He has a number of certifications including MCP, MCTS-515 and MCTS-513. He is currently working as Technical leader at Australian MNC. His LinkedIn:

linkedin.com/in/code-sampleHis blog: code-sample.com/ (Blog)code-sample.XYZ (Blog)

Cracking the IT Architect InterviewPackt Publishing Ltd

Software Quality Assurance in Large Scale and Complex Software-intensive Systems presents novel and high-quality research related approaches that relate the quality of software architecture to system requirements, system architecture and enterprise-architecture, or software testing. Modern software has become complex and adaptable due to the emergence of globalization and new software technologies, devices and networks. These changes challenge both traditional software quality assurance techniques and software engineers to ensure software quality when building today (and tomorrow's) adaptive, context-sensitive, and highly diverse applications. This edited volume presents state of the art techniques, methodologies, tools, best practices and guidelines for software quality assurance and offers guidance for future software engineering research and practice. Each contributed chapter considers the practical application of the topic through case studies, experiments, empirical validation, or systematic comparisons with other approaches already in practice. Topics of interest include, but are not limited, to: quality attributes of system/software architectures; aligning enterprise, system, and software architecture from the point of view of total quality; design decisions and their influence on the quality of system/software architecture; methods and processes for evaluating architecture quality; quality assessment of legacy systems and third party applications; lessons learned and empirical validation of theories and frameworks on architectural quality; empirical validation and testing for assessing architecture quality. Focused on quality assurance at all levels of software design and development Covers domain-specific software quality assurance issues e.g. for cloud, mobile, security, context-sensitive, mash-up and autonomic systems Explains likely trade-offs from design decisions in the context of complex software system engineering and quality assurance Includes practical case studies of software quality assurance for complex, adaptive and context-critical systems

400+ Java/J2EE Interview questions with clear and concise answers for: job seekers (junior/senior developers, architects, team/technical leads), promotion seekers, pro-active learners and interviewers. Lulu top 100 best seller. Increase your earning potential by learning, applying and succeeding. Learn the fundamentals relating to Java/J2EE in an easy to understand questions and answers approach. Covers 400+ popular interview Q&A with lots of diagrams, examples, code snippets, cross referencing and comparisons. This is not only an interview guide but also a quick reference guide, a refresher material and a roadmap covering a wide range of Java/J2EE related topics. More Java J2EE interview questions and answers & resume resources at <http://www.lulu.com/java-succes>

Amazon Web Services is the hottest technology in software. It is the new architecture on which very few books have been written. If you are aiming to get a job in companies with AWS based architecture like- Netflix, Amazon etc. then this book can help you prepare for the technical interview. This book also covers Architect level information in Q&A format for easy grasp of the concept. This book helps you in understanding the deep concepts behind AWS in a Q&A format. We keep revising this book from time to time to keep it up to date with the latest changes in Amazon Web Services (AWS) world. Sample Questions are: How can you failover gracefully in AWS? What is the use of Availability Zones in AWS? Why AWS systems are built on "Design to Fail" approach? What are the best practices to build a resilient system in AWS? What are the tools in AWS that can be used for creating a system based on "Design to Fail" principle? How can we build a Scalable system in AWS? What are the advantages of messaging queues to decouple components? How can we implement Message Queue based system in AWS? What are the different ways to implement Elasticity in AWS? What are the benefits of bootstrapping instances in AWS? What are the best practices to Automate deployment in AWS? How will you automate your software infrastructure in AWS? What are the AWS specific techniques for parallelization of software work? Why it is recommended to keep dynamic data closer to the compute and static data closer to the end user in Cloud computing? What are the features in AWS for keeping static data closer to end user? What are the best practices to ensure the security of an application in cloud? Why encryption should be used in Amazon S3? What are the best practices of Software Security in Cloud? What is the difference between Stop and Terminate an Amazon EC2 instance? What are the main uses of Amazon Elastic Compute Cloud (EC2)? What is Auto-scaling? How does Auto-scaling work in AWS? What automation tools can be used to create new servers in AWS? How is Amazon Machine Image (AMI) and an Amazon Instance are related? What key components of Amazon Web Service (AWS) do you use in your project?

Validate your AWS skills. This is your opportunity to take the next step in your career by expanding and validating your skills on the AWS cloud. AWS has been the frontrunner in cloud computing products and services, and the AWS Certified Solutions Architect Official Study Guide for the Associate exam will get you fully prepared through expert content, and real-world knowledge, key exam essentials, chapter review questions, access to Sybex's interactive online learning environment, and much more. This official study guide, written by AWS experts, covers exam concepts, and provides key review on exam topics, including: Mapping Multi-Tier Architectures to AWS Services, such as web/app servers, firewalls, caches and load balancers Understanding managed RDBMS through AWS RDS (MySQL, Oracle, SQL Server, Postgres, Aurora) Understanding Loose Coupling and Stateless Systems Comparing Different Consistency Models in AWS Services Understanding how AWS CloudFront can make your application more cost efficient, faster and secure Implementing Route tables, Access Control Lists, Firewalls, NAT, and DNS Applying AWS Security Features along with traditional Information and Application Security Using Compute, Networking, Storage, and Database AWS services Architecting Large Scale Distributed Systems Understanding of Elasticity and Scalability Concepts Understanding of Network Technologies Relating to AWS Deploying and Managing Services with tools such as CloudFormation, OpsWorks and Elastic Beanstalk. Learn from the AWS subject-matter experts, review with proven study tools, and apply real-world scenarios. If you are looking to take the AWS Certified Solutions Architect Associate exam, this guide is what you need for comprehensive content and robust study tools that will help you gain the edge on exam day and throughout your career.

The "father of data warehousing" incorporates the latest technologies into his blueprint for integrated decision support systems Today's corporate IT and data warehouse managers are required to make a small army of technologies work together to ensure fast and accurate information for business managers. Bill Inmon created the Corporate Information Factory to solve the needs of these managers. Since the First Edition, the design of the factory has grown and changed dramatically. This Second Edition, revised and expanded by 40% with five new chapters, incorporates these changes. This step-by-step guide will enable readers to connect their legacy systems with the data warehouse and deal with a host of new and changing technologies, including Web access mechanisms, e-commerce systems, ERP (Enterprise Resource Planning) systems. The book also looks closely at exploration and data mining servers for analyzing customer behavior and departmental data marts for finance, sales, and marketing.

Now in the 5th edition, Cracking the Coding Interview gives you the interview preparation you need to get the top software developer jobs. This book provides: 150 Programming Interview Questions and Solutions: From binary trees to binary search, this list of 150 questions includes the most common and most useful questions in data structures, algorithms, and knowledge based questions. 5 Algorithm

Approaches: Stop being blind-sided by tough algorithm questions, and learn these five approaches to tackle the trickiest problems. Behind the Scenes of the interview processes at Google, Amazon, Microsoft, Facebook, Yahoo, and Apple: Learn what really goes on during your interview day and how decisions get made. Ten Mistakes Candidates Make -- And How to Avoid Them: Don't lose your dream job by making these common mistakes. Learn what many candidates do wrong, and how to avoid these issues. Steps to Prepare for Behavioral and Technical Questions: Stop meandering through an endless set of questions, while missing some of the most important preparation techniques. Follow these steps to more thoroughly prepare in less time.

Discover relevant questions—and detailed answers—to help you prepare for job interviews and break into the field of analytics. This book contains more than 200 questions based on consultations with hiring managers and technical professionals already working in analytics. Interview Questions in Business Analytics: How to Ace Interviews and Get the Job You Want fills a gap in information on business analytics for job seekers. Bhasker Gupta, the founder and editor of Analytics India Magazine, has come up with more than 200 questions job applicants are likely to face in an interview. Covering data preparation, statistics, analytics implementation, as well as other crucial topics favored by interviewers, this book: Provides 200+ interview questions often asked by recruiters and hiring managers in global corporations Offers short and to-the-point answers to the depth required, while looking at the problem from all angles Provides a full range of interview questions for jobs ranging from junior analytics to senior data scientists and managers Offers analytics professionals a quick reference on topics in analytics Using a question-and-answer format from start to finish, Interview Questions in Business Analytics: How to Ace Interviews and Get the Job You Want will help you grasp concepts sooner and with deep clarity. The book therefore also serves as a primer on analytics and covers issues relating to business implementation. You will learn about not just the how and what of analytics, but also the why and when. This book will thus ensure that you are well prepared for interviews—putting your dream job well within reach. Business analytics is currently one of the hottest and trendiest areas for technical professionals. With the rise of the profession, there is significant job growth. Even so, it's not easy to get a job in the field, because you need knowledge of subjects such as statistics, databases, and IT services. Candidates must also possess keen business acumen. What's more, employers cast a cold critical eye on all applicants, making the task of getting a job even more difficult. What You'll Learn The 200 questions in this book cover such topics as: • The different types of data used in analytics • How analytics are put to use in different industries • The process of hypothesis testing • Predictive vs. descriptive analytics • Correlation, regression, segmentation and advanced statistics • Predictive modeling Who This Book Is For Those aspiring to jobs in business analytics, including recent graduates and technical professionals looking for a new or better job. Job interviewers will also find the book helpful in preparing interview questions.

Aimed at helping business and IT managers clearly communicate with each other, this helpful book addresses concerns straight-on and provides practical methods to building a collaborative data warehouse. You'll get clear explanations of the goals and objectives of each stage of the data warehouse lifecycle while learning the roles that both business managers and technicians play at each stage. Discussions of the most critical decision points for success at each phase of the data warehouse lifecycle help you understand ways in which both business and IT management can make decisions that best meet unified objectives.

Data Structure Theoretical Interview Questions Updated 2018 version!! This book contains tricky and nasty Data Structure theoretical interview questions that an interviewer asks. It is a compilation of advanced Data Structure interview questions after attending dozens of technical interviews in top-notch companies like- Oracle, Google, Ebay, Amazon etc. Each question is accompanied with an answer because you want to save your time while preparing for an interview. The difficulty rating on these Questions varies from a Junior level programmer to Architect level. How will this book help me? By reading this book, you do not have to spend time searching the Internet for Data Structure Theoretical interview questions. Are there answers in this book? Yes, each question is followed by an answer in this book. It will save your time during interview preparation. What is the best way of reading this book? You have to first do a slow reading of all the questions in this book. Once you go through them in the first pass, mark the questions that you could not answer by yourself. Then, in second pass go through only the difficult questions. After going through this book 2-3 times, you will be well prepared to face a technical interview for Software Engineer position in Data Structure. What is the level of questions in this book? This book contains questions that are good for a Associate Software engineer to a Principal Software engineer. The difficulty level of question varies in the book from a Fresher to an Experienced professional. What are the sample questions in this book? Why do we need to perform algorithm analysis in programming? What are the main criteria of algorithm analysis? What is Asymptotic analysis of an algorithm? What are the Asymptotic notations for algorithm analysis? What is a Linear data structure? What are popular operations that we can perform on a data structure? What are the popular approaches to develop an algorithm? What are the examples of Greedy approach algorithms? What are the examples of Divide and conquer algorithms? What are the examples of Dynamic programming algorithms? What do you know about Linked list data structure? What are the main steps in development of an algorithm? What is a Stack data structure? What is the main usecase for using Stack? What are the main operations of a Stack data structure? What is a Queue data structure? What is the main usecase of using Queues? What are the main operations of a Queue? What is a Linear search? What is a Binary search? How does Bubble sort internally work? How does Insertion sort internally work? How does Selection sort internally work? What is the difference between Insertion sort and Selection sort algorithms? How does Shell sort internally work? What is a stable sort? What is a Graph data structure? What are the main operations in Graph data structure? What is a Fibonacci series? What is a Tree data structure? What are the different kinds of Tree traversal mechanisms? What is an AVL Tree data structure? How does Prim's algorithm to find minimum spanning tree work? How does Depth First Search work? How does Breadth First Search work? What is a Spanning tree data structure? How many Spanning trees are in Graph? What is Recursion? What is a Hash function? What is a Trie data structure? What are the pros and cons of using Trie data structure over a Tree or Hash Table? What is a Red Black tree?

This book constitutes the proceedings papers from the 17th European, Mediterranean, and Middle Eastern Conference on Information Systems, EMCIS 2020, held in Dubai, UAE, in November 2020. Due to the COVID-19 pandemic the conference took place virtually. EMCIS focuses on approaches that facilitate the identification of innovative research of significant relevance to the Information Systems discipline following sound research methodologies that lead to results of measurable impact. The 56 papers presented in this volume were carefully reviewed and selected from a total of 161 submissions to the main conference. They are grouped in section on Big Data and Analytics, Blockchain Technology and Applications, Digital Government, Digital Services and Social Media, Emerging Computing Technologies and Trends for Business Process Management, Enterprise Systems, Healthcare Information Systems, Information Systems Security and Information Privacy Protection, Innovative Research Projects, Management and Organisational Issues in Information Systems.

If you wish to deploy Informatica in enterprise environments and make a career in data warehousing, then this book is for you. Whether you are a developer who's new to Informatica or an experienced professional, you will learn all the features of Informatica. Basic knowledge of programming and data warehouse concepts is essential.

The need to handle increasingly larger data volumes is one factor driving the adoption of a new class of nonrelational “NoSQL” databases. Advocates of NoSQL databases claim they can be used to build systems that are more performant, scale better, and are easier to program. NoSQL Distilled is a concise but thorough introduction to this rapidly emerging technology. Pramod J. Sadalage and Martin Fowler explain how NoSQL databases work and the ways that they may be a superior alternative to a traditional RDBMS. The authors provide a fast-paced guide to the concepts you need to know in order to evaluate whether NoSQL

databases are right for your needs and, if so, which technologies you should explore further. The first part of the book concentrates on core concepts, including schemaless data models, aggregates, new distribution models, the CAP theorem, and map-reduce. In the second part, the authors explore architectural and design issues associated with implementing NoSQL. They also present realistic use cases that demonstrate NoSQL databases at work and feature representative examples using Riak, MongoDB, Cassandra, and Neo4j. In addition, by drawing on Pramod Sadalage's pioneering work, NoSQL Distilled shows how to implement evolutionary design with schema migration: an essential technique for applying NoSQL databases. The book concludes by describing how NoSQL is ushering in a new age of Polyglot Persistence, where multiple data-storage worlds coexist, and architects can choose the technology best optimized for each type of data access.

* Obtain a deep understanding of database design and modeling concepts. * Implement a complete case study, from initial requirements gathering, right up to the point where it is up and running on SQL Server 2000. * Design and build relational databases that will be more efficient and productive for your organization.

Cowritten by Ralph Kimball, the world's leading data warehousing authority, whose previous books have sold more than 150,000 copies Delivers real-world solutions for the most time- and labor-intensive portion of data warehousing-data staging, or the extract, transform, load (ETL) process Delineates best practices for extracting data from scattered sources, removing redundant and inaccurate data, transforming the remaining data into correctly formatted data structures, and then loading the end product into the data warehouse Offers proven time-saving ETL techniques, comprehensive guidance on building dimensional structures, and crucial advice on ensuring data quality

Data has never been more important to your success than it is today, yet you are surrounded with data you can't trust, and the overwhelming burden of fixing it. Everyone deserves data that helps-not hurts-their organization.

This book contains the proceedings of two long-running events held along with the CAiSE conference relating to the areas of enterprise, business-process and information systems modeling: * the 21st International Conference on Business Process Modeling, Development and Support, BPMDS 2020, and * the 25th International Conference on Exploring Modeling Methods for Systems Analysis and Development, EMMSAD 2020. The conferences were planned to take place in Grenoble, France, during June 8-9, 2020. They were held virtually due to the COVID-19 pandemic. For BPMDS 13 full papers and 1 short paper were carefully reviewed and selected for publication from a total of 30 submissions; for EMMSAD 11 full papers and 4 short papers were accepted from 29 submissions. The papers were organized in topical sections named as follows: BPMDS: Business process execution and monitoring, BPM applications in industry and practice, planning and scheduling in business processes, process mining, process models and visualizations EMMSAD: Requirements and method engineering, enterprise and business modeling, software-related modeling, domain-specific modeling, evaluation-related research.

Why this book: It will remind you of key SAN QuestionsStorage Area Networks tricks, tips, facts just in timePerfect answers to get hired for any SAN JobsSuccessful fibre channel SAN, NAS, Job InterviewStart & Close any SAN Storage Job Interview

SuccessfullyIntended audience:This is intended for anyone who is attending a SAN job interview.Complete vendor neutral SAN Storage Interview answers for the following Jobs: Storage Specialist, SAN Engineer, SAN Administrator, SAN Systems Administrator, Storage Administrator, SAN Storage Engineer, Storage Architect, Storage Manager , Storage ProfessionalIt will help you to convey powerful and useful SAN storage information to the employer successfully. There is no information available that connects all the dots for a SAN job interview, for the benefit of all author is sharing his personal interview notes, unique ideas, accumulated experience & observations of years of SAN, why reinvent the wheel when you can learn from people who have who have already figured things out. Storage Area Networks (SANs) have become one of the hottest skills. It's our observation that many of these questions are also used by recruiters and hiring managers for SAN staff augmentation.It has been well written to make it a very quick read. Practicing with this interview questions and answers in the mirror will help with your replies to questions and pass with flying colors. Try to be in parking lot an hour before the interview and use this time to read over this e-book it covers technical, non-technical, HR and Personnel questions.Just in time interview preparation in as low as 60 minutes.You will learn to practice mock interviews for a storage professional position. Interview Questions and Suggested Answers related to the following and more:All the aspects of SAN AdministrationMultiple enterprise storage vendorsAll Flash and hybrid storage arraysAdministration and troubleshooting of flash arraysManage, Maintain and Develop Storage InfrastructureBusiness Continuity Concepts Local and Remote Replication Storage Virtualization TechnologiesEnterprise Storage Systems Microcode Upgrades, Switch Configuration Connectivity, Zoning, ISL, Windows, Solaris, Linux, UNIXMapping, Masking, Storage Configuration Storage Integration in Heterogeneous EnvironmentBest Practices Standards for System Performance and StabilityDisaster Recovery and Business Continuity Configure and administer SAN/NAS Monitor and manage SAN space and I/O utilization Fibre Channel SANs infrastructuresMaintain disk Storage ArraysRAID Implementations, Pool Storage DesignLUN Sizing and Volume ConfigurationFibre attached & iSCSI-based storage devices Managing a SAN switching fabric Snapshot technologies Updating and maintaining SAN connected servers Virtual tape and physical tape libraries Data de-duplication Data MigrationSAN Switches and FabricStorage VirtualizationStorage ManagementData ManagementContinuity ManagementFiber Channels for SANWhy Fiber Channel, SASFC Layers & Related ComponentsFC Topologies, Terminology & AddressingApplication Analysis QuestionsBest Practices QuestionsCIFS QuestionsContinuity Management QuestionsData Management QuestionsData Protection QuestionsDeduplication QuestionsDesign and Implementation QuestionsDirect Attached Storage QuestionsDisaster Recovery QuestionsDR QuestionsDynamic Tiering QuestionsEncryption QuestionsFC Layers & Related Components QuestionsFC QuestionsFC Topologies, Terminology & Addressing QuestionsFCIP, Ifcp, Ficon Questions Fibre Channel Fabric QuestionsFibre Channel Packet Design QuestionsFibre Channel Protocol (FCP) QuestionsFibre Channel Switches QuestionsFibre Channel Topologies QuestionsFibre Channel Zoning QuestionsFibre Channels for SAN QuestionsGlobal Sparing QuestionsHBA's For FCP and Iscsi Questions

JAVA/J2EE Interview Questions You'll Most Likely Be Asked is a perfect companion to stand ahead above the rest in today's competitive job market.

Data is at the center of many challenges in system design today. Difficult issues need to be figured out, such as scalability, consistency, reliability, efficiency, and maintainability. In addition, we have an overwhelming variety of tools, including relational databases, NoSQL datastores, stream or batch processors, and message brokers. What are the right choices for your application? How do you make sense of all these buzzwords? In this practical and comprehensive guide, author Martin Kleppmann helps you navigate this diverse landscape by examining the pros and cons of various technologies for processing and storing data. Software keeps changing, but the fundamental

principles remain the same. With this book, software engineers and architects will learn how to apply those ideas in practice, and how to make full use of data in modern applications. Peer under the hood of the systems you already use, and learn how to use and operate them more effectively. Make informed decisions by identifying the strengths and weaknesses of different tools. Navigate the trade-offs around consistency, scalability, fault tolerance, and complexity. Understand the distributed systems research upon which modern databases are built. Peek behind the scenes of major online services, and learn from their architectures.

This is a perfect companion to stand ahead above the rest in today's competitive job market. Rather than going through comprehensive, textbook-sized reference guides, this book includes only the information required immediately for job search to build an IT career. This book puts the interviewee in the driver's seat and helps them steer their way to impress the interviewer. Includes: 200 Computer Architecture Interview Questions, Answers and Proven Strategies for getting hired as an IT professional; Dozens of examples to respond to interview questions; 51 HR Questions with Answers and Proven strategies to give specific, impressive, answers that help nail the interviews; 2 Aptitude Tests download available on www.vibrantpublishers.com.

Land the IT job of your dreams with help from this insider guide. You'll discover valuable interview strategies for standing in the crowd as an applicant and learn best practices for representing your experience, education, previous employment, and re-entry into the workforce. Containing critical dos and don'ts from thousands of IT professionals and off-the-record interviews with hiring managers from key technology companies, this book will increase your chances of getting hired.

Introduction: Top 50 Apache Spark Interview Questions & Answers Apache Spark is a highly popular trend in technology world. There is a growing demand for Data Engineer jobs with Apache Spark knowledge in IT Industry. This book contains technical interview questions that an interviewer asks for Apache Spark. Each question is accompanied with an answer so that you can prepare for job interview in short time. We have compiled this list after attending dozens of technical interviews in top-notch companies like- Amazon, Netflix, Uber etc. Often, these questions and concepts are used in our daily work. There is a sample answer with each question. But try to answer these questions in your own words. After going through this book 2-3 times, you will be well prepared to face interview of Apache Spark topic for Data Engineer position. How will this book help me? By reading this book, you do not have to spend time searching the Internet for Apache Spark Data Engineer interview questions. We have already compiled the list of most popular and latest Apache Spark Data Engineer Interview questions. Are there answers in this book? Yes, in this book each question is followed by an answer. So you can save time in interview preparation.

What is the best way of reading this book? You have to first do a slow reading of all the questions in this book. Once you go through them in the first pass try to go through the difficult questions. After going through this book 2-3 times, you will be well prepared to face Apache Spark Data Engineer interview in IT. What is the level of questions in this book? This book contains questions that are good for Software Engineer, Senior Software Engineer, Principal Engineer and Associate Architect level. What are the sample questions in this book? How will you minimize data transfer while working with Apache Spark? How does Spark Streaming work internally? What are the main features of Apache Spark? What is a Resilient Distribution Dataset in Apache Spark? What is a Transformation in Apache Spark? What are security options in Apache Spark? What are the two ways to create RDD in Spark? What are the main operations that can be done on a RDD in Apache Spark? What is a Shuffle operation in Spark? What are the operations that can cause a shuffle in Spark? What is purpose of Spark SQL? What is a DataFrame in Spark SQL? What is a Parquet file in Spark? What is the difference between Apache Spark and Apache Hadoop MapReduce? What are the main languages supported by Apache Spark? What is the use of SparkContext in Apache Spark? Do we need HDFS for running Spark application? What is Spark Streaming? What is a Pipeline in Apache Spark? How does Pipeline work in Apache Spark? What is the difference between Transformer and Estimator in Apache Spark? What are the different types of Cluster Managers in Apache Spark? What is the main use of MLib in Apache Spark? What is the Checkpointing in Apache Spark? What is an Accumulator in Apache Spark? What is a Broadcast variable in Apache Spark? What is Structured Streaming in Apache Spark? What is a Property Graph? What is Neighborhood Aggregation in Spark? What are different Persistence levels in Apache Spark? How will you select the storage level in Apache Spark? What are the options in Spark to create a Graph? What are the basic Graph operators in Spark? What is the partitioning approach used in GraphX of Apache Spark? <http://www.knowledgepowerhouse.com>

This book will show you how to create robust, scalable, highly available and fault-tolerant solutions by learning different aspects of Solution architecture and next-generation architecture design in the Cloud environment.

Introduction: Top 50 AWS Associate Architect Interview Questions & Answers Updated 2020 version with Bonus questions!! Amazon Web Services is the most popular Cloud Computing platform. There is growing demand for Associate Architect jobs in this field. This book contains AWS Associate Architect level interview questions that an interviewer asks. Each question is accompanied with an answer so that you can prepare for job interview in short time. We have compiled this list after attending dozens of technical interviews in top-notch companies like- Airbnb, Netflix, Amazon etc. Often, these questions and concepts are used in our daily work. But these are most helpful when an Interviewer is trying to test your deep knowledge of Amazon Web Services. How will this book help me? By reading this book, you do not have to spend time searching the Internet for Amazon Web Services Associate Architect interview questions. We have already compiled the list of most popular and latest Amazon Web Services Associate Architect Interview questions. Are there answers in this book? Yes, in this book each question is followed by an answer. So you can save time in interview preparation. What is the best way of reading this book? You have to first do a slow reading of all the questions in this book. Once you go through them in the first pass try to go through the difficult questions. After going through this book 2-3 times, you will be well prepared to face Amazon Web Services Associate Architect level interview in IT. What is the level of questions in this book? This book contains questions that are good for Software Engineer, Senior Software Engineer, Principal Engineer and Associate Architect level. What are the sample questions in this book? What do you know about AWS Region? What are the important components of IAM? What are the important points about AWS IAM? What are the important features of Amazon S3? What is the scale of durability in Amazon S3? What are the Consistency levels supported by Amazon S3? What are the different tiers in Amazon S3 storage? How will you upload a file greater than 100 megabytes in Amazon S3? What happens to an Object when we delete it from Amazon S3? What is the use of Amazon Glacier? What are the use cases of Cross Region Replication Amazon S3? Can we do Cross Region replication in Amazon S3 without enabling versioning on a bucket? How do we get higher performance in our application by using Amazon CloudFront? What is the mechanism behind Regional Edge Cache in Amazon CloudFront? What are the benefits of Streaming content? What is Lambda@Edge in AWS? What are the different types of events triggered by Amazon CloudFront? What is Geo Targeting in Amazon CloudFront? What are the main features of Amazon CloudFront? What are the security mechanisms available in Amazon S3? What are the benefits of AWS Storage Gateway? What are the main options available in Amazon CloudWatch? What is a Serverless application in AWS? What are the main use cases for AWS Lambda? How does AWS Lambda handle failure during event processing? What are the different routing policies available in Route 53? What are the main benefits of using Amazon DynamoDB? What are the different APIs available in Amazon DynamoDB? When should be use Amazon DynamoDB vs. Amazon S3? What is the use of Amazon ElastiCache? What are the use cases for Amazon Kinesis Streams? What is the difference between Amazon SQS and Amazon SNS?

Become the applicant Google can't turn down Cracking the Tech Career is the job seeker's guide to landing a coveted position at one of the top tech firms. A follow-up to The Google Resume, this book provides new information on what these companies want, and how to show them you have what it takes to succeed in the role. Early planners will learn what to study, and established professionals will discover how to make their skillset and experience set them apart from the crowd. Author Gayle Laakmann McDowell worked in engineering at Google, and

interviewed over 120 candidates as a member of the hiring committee ? in this book, she shares her perspectives on what works and what doesn't, what makes you desirable, and what gets your resume saved or deleted. Apple, Microsoft, and Google are the coveted companies in the current job market. They field hundreds of resumes every day, and have their pick of the cream of the crop when it comes to selecting new hires. If you think the right alma mater is all it takes, you need to update your thinking. Top companies, especially in the tech sector, are looking for more. This book is the complete guide to becoming the candidate they just cannot turn away. Discover the career paths that run through the top tech firms Learn how to craft the perfect resume and prepare for the interview Find ways to make yourself stand out from the hordes of other applicants Understand what the top companies are looking for, and how to demonstrate that you're it These companies need certain skillsets, but they also want a great culture fit. Grades aren't everything, experience matters, and a certain type of applicant tends to succeed. Cracking the Tech Career reveals what the hiring committee wants, and shows you how to get it.

Between the high-level concepts of business intelligence and the nitty-gritty instructions for using vendors' tools lies the essential, yet poorly-understood layer of architecture, design and process. Without this knowledge, Big Data is belittled – projects flounder, are late and go over budget. Business Intelligence Guidebook: From Data Integration to Analytics shines a bright light on an often neglected topic, arming you with the knowledge you need to design rock-solid business intelligence and data integration processes. Practicing consultant and adjunct BI professor Rick Sherman takes the guesswork out of creating systems that are cost-effective, reusable and essential for transforming raw data into valuable information for business decision-makers. After reading this book, you will be able to design the overall architecture for functioning business intelligence systems with the supporting data warehousing and data-integration applications. You will have the information you need to get a project launched, developed, managed and delivered on time and on budget – turning the deluge of data into actionable information that fuels business knowledge. Finally, you'll give your career a boost by demonstrating an essential knowledge that puts corporate BI projects on a fast-track to success. Provides practical guidelines for building successful BI, DW and data integration solutions. Explains underlying BI, DW and data integration design, architecture and processes in clear, accessible language. Includes the complete project development lifecycle that can be applied at large enterprises as well as at small to medium-sized businesses Describes best practices and pragmatic approaches so readers can put them into action. Companion website includes templates and examples, further discussion of key topics, instructor materials, and references to trusted industry sources.

New to SAP S/4HANA Cloud? This is the book for you! Get detailed descriptions and screenshots to see what is possible in SAP S/4HANA Cloud, from core functionality like finance and logistics to reporting with embedded analytics and KPIs. Learn how SAP S/4HANA Cloud impacts your users and how it can be extended, integrated, and adopted by your organization. Get information on the latest intelligent technologies to experience the complete solution scope. Discover what SAP S/4HANA Cloud means for your business! Highlights include: 1) User experience 2) Analytics 3) Business processes 4) Extensibility 5) Integration 6) Adoption 7) Lifecycle management 8) Intelligent enterprise 9) Intelligent technologies

The ultimate guide to successful interviews for Enterprise, Business, Domain, Solution, and Technical Architect roles as well as IT Advisory Consultant and Software Designer roles About This Book Learn about Enterprise Architects IT strategy and NFR – this book provides you with methodologies, best practices, and frameworks to ace your interview A holistic view of key architectural skills and competencies with 500+ questions that cover 12 domains 100+ diagrams depicting scenarios, models, and methodologies designed to help you prepare for your interview Who This Book Is For This book is for aspiring enterprise, business, domain, solution, and technical architects. It is also ideal for IT advisory consultants and IT designers who wish to interview for such a role. Interviewers will be able leverage this book to make sure they hire candidates with the right competencies to meet the role requirements. What You Will Learn Learn about IT strategies, NFR, methodologies, best practices, and frameworks to ace your interview Get a holistic view of key concepts, design principles, and patterns related to evangelizing web and Java enterprise applications Discover interview preparation guidelines through case studies Use this as a reference guide for adopting best practices, standards, and design guidelines Get a better understanding with 60+ diagrams depicting various scenarios, models, and methodologies Benefit from coverage of all architecture domains including EA (Business, Data, Infrastructure, and Application), SA, integration, NFRs, security, and SOA, with extended coverage from IT strategies to the NFR domain In Detail An architect attends multiple interviews for jobs or projects during the course of his or her career. This book is an interview resource created for designers, consultants, technical, solution, domain, enterprise, and chief architects to help them perform well in interview discussions and launch a successful career. The book begins by providing descriptions of architecture skills and competencies that cover the 12 key domains, including 350+ questions relating to these domains. The goal of this book is to cover all the core architectural domains. From an architect's perspective, it is impossible to revise or learn about all these key areas without a good reference guide – this book is the solution. It shares experiences, learning, insights, and proven methodologies that will benefit practitioners, SMEs, and aspirants in the long run. This book will help you tackle the NFR domain, which is a key aspect pertaining to architecting applications. It typically takes years to understand the core concepts, fundamentals, patterns, and principles related to architecture and designs. This book is a goldmine for the typical questions asked during an interview and will help prepare you for success! Style and approach This book will help you prepare for interviews for architectural profiles by providing likely questions, explanations, and expected answers. It is an insight-rich guide that will help you develop strategic, tactical, and operational thinking for your interview.

Top 200 Data Engineer Interview Questions Big Data and Data Science are the most popular technology trends. There is a growing demand for Data Engineer job in technology companies. This book contains technical interview questions that an interviewer asks for Data Engineer position. Each question is accompanied with an answer so that you can prepare for job interview in short time. The book contains questions on Apache Hadoop, Hive, Spark, SQL and MySQL. It is a combination of our five other books. We have compiled this list after attending dozens of technical interviews in top-notch companies like- Airbnb, Netflix, Amazon etc. Often, these questions and concepts are used in our daily work. But these are most helpful when an Interviewer is trying to test your deep knowledge of Big Data topics like- Hadoop, Hive, Spark, SQL, MySQL etc. What are the Big Data topics covered in this book? We cover a wide variety of Big Data and Data Science topics in this book. Some of the topics are Apache Hadoop, Hive, Spark, SQL, MySql etc. How will this book help me? By reading this book, you do not have to spend time searching the Internet for Data Engineer interview questions. We have already compiled the list of the most popular and the latest Data Engineer Interview questions. Are there answers in this book? Yes, in this book each question is followed by an answer. So you can save time in interview preparation. What is the best way of reading this book? You have to first do a slow reading of all the questions in this book. Once you go through them in the first pass, mark the questions that you could not answer by yourself. Then, in second pass go through only the difficult questions. After going through this book 2-3 times, you will be well prepared to face a technical interview for a Data Engineer position. What is the level of questions in this book? This book contains

questions that are good for a beginner Data engineer to a senior Data engineer. The difficulty level of question varies in the book from Fresher to a Seasoned professional. What are the sample questions in this book? What is the difference between ROLLBACK TO SAVEPOINT and RELEASE SAVEPOINT? How will you see the current user logged into MySQL connection? Can we create multiple tables in Hive for a data file? Can we use Hive for Online Transaction Processing (OLTP) systems? Can we use same name for a TABLE and VIEW in Hive? How can we get a random number between 1 and 100 in MySQL? How can you copy the structure of a table into another table without copying the data? How can you find 10 employees with Odd number as Employee ID? How does CONCAT function work in Hive? How will you change the data type of a column in Hive? How will you check if a file exists in HDFS? How will you check if a table exists in MySQL? How will you run Unix commands from Hive? How will you search for a String in MySQL column? How will you see the structure of a table in MySQL? How will you select the storage level in Apache Spark? How will you synchronize the changes made to a file in Distributed Cache in Hadoop? If we set Replication factor 3 for a file, does it mean any computation will also take place 3 times? Is it safe to use ROWID to locate a record in Oracle SQL queries? What are different Persistence levels in Apache Spark? What are the common Transformations in Apache Spark? <http://www.knowledgepowerhouse.com>

Master the skills you need as a Salesforce B2C Solution Architect to design an optimized business-to-consumer (B2C) solution across the Salesforce Customer 360 ecosystem, including B2C Commerce, Service Cloud, and Marketing Cloud Key Features Create a unified view of the customer across Salesforce products and beyond Avoid inefficiencies and costly rework caused by poor architectural designs Prepare for the B2C Solution Architect exam and Salesforce certification with practical scenarios following Salesforce best practices Book Description A carefully designed Customer 360 solution spanning B2C Commerce, Marketing Cloud, and Service Cloud provides the foundation for a single view of the customer, unique insights, and transformational capabilities. There is currently a huge demand in the marketplace for professionals who understand how to leverage these components together. Salesforce B2C Solution Architect's Handbook will help you understand the integration options and products that help you deliver value for organizations. You'll start by developing a solid understanding of the capabilities of each component in the Customer 360 ecosystem, their data models, and governance. As you progress, you'll explore the role of a B2C solution architect in planning critical requirements and implementation sequences to avoid costly rework. The book will also guide you through the options for integrating products with the Salesforce ecosystem and demonstrate best practices for data modeling across Salesforce products and beyond. Once you have the core knowledge required to be a successful solution architect, you'll learn about tools, techniques, and certification scenarios in preparation for the B2C Solution Architect exam. By the end of this book, you'll have the skills to design scalable, secure, and future-proof solutions supporting your customers' critical business demands. What you will learn Explore key Customer 360 products and their integration options Choose the optimum integration architecture to unify data and experiences Architect a single view of the customer to support service, marketing, and commerce Plan for critical requirements, design decisions, and implementation sequences to avoid sub-optimal solutions Integrate Customer 360 solutions into a single-source-of-truth solution such as a master data model Support business needs that require functionality from more than one component by orchestrating data and user flows Who this book is for This book is for B2C commerce architects, application architects, integration architects, and system architects familiar with one or more products within the Customer 360 suite who want to master B2C solutions. Enterprise architects, Salesforce architects, and CTO teams at Salesforce customer organizations looking to benefit from a unified solution will also find this book helpful. A general understanding of data integration, APIs, and connected systems, along with knowledge of the fundamentals of business-to-consumer (B2C) customer experiences is necessary to get the most out of this book.

Defining the various types of IT architecture in the industry, this one-of-a-kind resource highlights the rewards of becoming an architect and explores the details of the deliverables, project structure, and how to approach their creation. --

Learn effective and scalable database design techniques in a SQL Server 2016 and higher environment. This book is revised to cover in-memory online transaction processing, temporal data storage, row-level security, durability enhancements, and other design-related features that are new or changed in SQL Server 2016. Designing an effective and scalable database using SQL Server is a task requiring skills that have been around for forty years coupled with technology that is constantly changing. Pro SQL Server Relational Database Design and Implementation covers everything from design logic that business users will understand, all the way to the physical implementation of design in a SQL Server database. Grounded in best practices and a solid understanding of the underlying theory, Louis Davidson shows how to "get it right" in SQL Server database design and lay a solid groundwork for the future use of valuable business data. The pace of change in relational database management systems has been tremendous these past few years. Whereas in the past it was enough to think about optimizing data residing on spinning hard drives, today one also must consider solid-state storage as well as data that are constantly held in memory and never written to disk at all except as a backup. Furthermore, there is a trend toward hybrid cloud and on-premise database configurations as well a move toward preconfigured appliances. Pro SQL Server Relational Database Design and Implementation guides in the understanding of these massive changes and in their application toward sound database design. Gives a solid foundation in best practices and relational theory Covers the latest implementation features in SQL Server 2016 Helps you master in-memory OLTP and use it effectively Takes you from conceptual design to an effective, physical implementation What You Will Learn Develop conceptual models of client data using interviews and client documentation Recognize and apply common database design patterns Normalize data models to enhance scalability and the long term use of valuable data Translate conceptual models into high-performing SQL Server databases Secure and protect data integrity as part of meeting regulatory requirements Create effective indexing to speed query performance Who This Book Is For Programmers and database administrators of all types who want to use SQL Server to store data. The book is especially useful to those wanting to learn the very latest design features in SQL Server 2016, features that include an improved approach to in-memory OLTP, durability enhancements, temporal data support, and more. Chapters on fundamental concepts, the language of database modeling, SQL implementation, and of course, the normalization process, lay a solid groundwork for readers who are just entering the field of database design. More advanced chapters serve the seasoned veteran by tackling the very latest in physical implementation features that SQL Server has to offer. The book has been carefully revised to cover all the design-related features that are new in SQL Server 2016.

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