Interactive Information Visualization To Explore And Query Electronic Health Records Foundations And Trendsr In Human Computer Interaction

Scalable Data Analytics with Azure Data Explorer **Google BigQuery: The Definitive Guide** **Power Query Cookbook** ***Exploring Natural Language*** **Modelling and Development of Intelligent Systems Interactive Information Visualization to Explore and Query Electronic Health Records** ***The Semantic Web*** **Microsoft Office Professional 2010 Step by Step** **Making Data Smarter with IBM Spectrum Discover: Practical AI Solutions** **Data Exploration Using Example-Based Methods** **Learn T-SQL Querying Beginning ASP.NET 2.0 and Databases** ***Hands-On Business Intelligence with DAX*** **Advances in Databases Learning Spark Chance Discoveries in Real World Decision Making Build a Weather Station with Elixir and Nerves New Perspectives on Microsoft Access 2000 Data Science Techniques for Cryptocurrency Blockchains** **Conceptual Exploration** ***Microsoft SQL Server 2012 T-SQL Fundamentals*** **Professional Android Serverless Analytics with Amazon Athena Big Data Analytics Database and XML Technologies** ***Exploring Services Science*** **Social Shaping of Digital Publishing: Exploring the Interplay Between Culture and Technology Mining the Social Web** **Natural Language Processing and Information Systems** **Excel Power Pivot & Power Query For Dummies** ***Expert MySQL*** **Advanced MySQL 8** ***Efficient MySQL Performance*** **Microsoft Certified Azure Data Fundamentals (Exam DP-900) Certification Guide** ***ETL with Azure Cookbook*** **A Mosaic of Computational Topics: from Classical to Novel Passive and Active Measurement** ***Principles of Distributed Database Systems*** **Advances in Spatial and Temporal Databases** **Search Computing**

Eventually, you will unquestionably discover a additional experience and deed by spending more cash. still when? realize you give a positive response that you require to get those every needs with having significantly cash? Why dont you attempt to get something basic in the beginning? Thats something that will guide you to understand even more something like the globe, experience, some places, in imitation of history, amusement, and a lot more?

It is your certainly own epoch to play a part reviewing habit. in the course of guides you could enjoy now is Interactive Information Visualization To Explore And Query Electronic Health Records Foundations And Trendsr In Human Computer Interaction below.

Conceptual Exploration Mar 14 2021 This is the first textbook on attribute exploration, its theory, its algorithms forapplications, and some of its many possible generalizations. Attribute explorationis useful for acquiring structured knowledge through an interactive process, byasking queries to an expert. Generalizations that handle incomplete, faulty, orimprecise data are discussed, but the focus lies on knowledge extraction from areliable information source.The method is based on Formal Concept Analysis, a mathematical theory ofconcepts and concept hierarchies, and uses its expressive diagrams. The presentationis self-contained. It provides an introduction to Formal Concept Analysiswith emphasis on its ability to derive algebraic structures from qualitative data,which can be represented in meaningful and precise graphics.

A Mosaic of Computational Topics: from Classical to Novel Oct 28 2019 This book, A Mosaic of Computational Topics: from Classical to Novel, is a collection of papers published to honor Professor Jetty Kleijn on the occasion of her 65th birthday. The scope and reach of her research is truly broad. She has made significant and lasting contributions in several research areas, both through the solving of challenging problems and in her pioneering of new research directions. She has published influential papers contributing to the foundations of computer science, in particular, in the area of formal languages and automata theory; to concurrency theory, in particular, Petri nets; and to natural computing, in particular bio-inspired computing and the computational modeling of bio-processes. A significant part of Professor Kleijn's research portfolio is interdisciplinary, including her work on the Petri net modeling of biological processes and the development of novel models of information processing in bio-systems such as reaction systems. She is also passionately engaged in promoting the involvement of women in computer science. Jetty and her work are well-recognized by the scientific community, a fact demonstrated by the enthusiastic response to the invitation to contribute to this book, and the 14 carefully refereed papers collected together here explore a number of research topics that are either directly or indirectly related to research directions pursued by Jetty Kleijn in the course of her career.

Making Data Smarter with IBM Spectrum Discover: Practical AI Solutions Feb 22 2022 More than 80% of all data that is collected by organizations is not in a standard relational database. Instead, it is trapped in unstructured documents, social media posts, machine logs, and so on. Many organizations face significant challenges to manage this deluge of unstructured data, such as the following examples: Pinpointing and activating relevant data for large-scale analytics Lacking the fine-grained visibility that is needed to map data to business priorities Removing redundant, obsolete, and trivial (ROT) data Identifying and classifying sensitive data IBM® Spectrum Discover is a modern metadata management software that provides data insight for petabyte-scale file and Object Storage, storage on-premises, and in the cloud. This software enables organizations to make better business decisions and gain and maintain a competitive advantage. IBM Spectrum® Discover provides a rich metadata layer that enables storage administrators, data stewards, and data scientists to efficiently manage, classify, and gain insights from massive amounts of unstructured data. It improves storage economics, helps mitigate risk, and accelerates large-scale analytics to create competitive advantage and speed critical research. This IBM Redbooks® publication presents several use cases that are focused on artificial intelligence (AI) solutions with IBM Spectrum Discover. This book helps storage administrators and technical specialists plan and implement AI solutions by using IBM Spectrum Discover and several other IBM Storage products.

Database and XML Technologies Oct 09 2020 Modern database systems enhance the capabilities of traditional database systems by their ability to handle any kind of data, including text, image, audio, and video. Today, databasesystemsareparticularlyrelevanttotheWeb,astheycanprovideinputtocontent generators for Web pages, and can handle queries issued over the Internet. The eXtensible Markup Language (XML) is used in applications running the gamut from content management through publishing to Web services and e-commerce. It is used as the universal communication language for exchanging music and graphics as well as purchase orders and technical documentation. As database systems increasingly talk to each other over the Web, there is a fa- growingdesiretouseXMLasthestandardexchangeformat.Asaresult,manyrelational database systems can export data as XML documents and import data from XML d- uments and provide query and update capabilities for XML data. In addition, so called native XML database and integration systems are appearing on the database market, whose claim is to be especially tailored to storing, maintaining, and easily accessing XML documents. After the huge success of the ?rst XML Database Symposium (XSym 2003) last year in Berlin (already then in conjunction withVLDB) it was decided to establish this symposiumasanannualeventthatissupposedtotakeplaceasanintegralpartofVLDB. Thegoalofthissymposiumistoprovideahigh-qualityplatformforthepresentationand discussion of new research results and system developments. It is targeted at scientists, practitioners, vendors and users of XML and database technologies.

Chance Discoveries in Real World Decision Making Jul 18 2021 For this book, the editors invited and called for contributions from indispensable research areas relevant to "chance discovery," which has been defined as the discovery of events significant for making a decision, and studied since 2000. From respective research areas as artificial intelligence, mathematics, cognitive science, medical science, risk management, methodologies for design and communication, the invited and selected authors in this book present their particular approaches to chance discovery. The chapters here show contributions to identifying rare or hidden events and explaining their significance, predicting future trends, communications for scenario development in marketing and design, identification effects and side-effects of medicines, etc. The methods presented in this book are based on the interaction of human, machine, and human's living environment, rather than based purely automated predictions of the future. This is a promising direction of computer-supported decision of human in a radically changing environment.

ETL with Azure Cookbook **Nov 29 2019 Explore the latest Azure ETL techniques both on-premises and in the cloud using Azure services such as SQL Server Integration Services (SSIS), Azure Data Factory, and Azure Databricks Key FeaturesUnderstand the key components of an ETL solution using Azure Integration ServicesDiscover the common and not-so-common challenges faced while creating modern and scalable ETL solutionsProgram and extend your packages to develop efficient data integration and data transformation solutionsBook Description ETL is one of the most common and tedious procedures for moving and processing data from one database to another. With the help of this book, you will be able to speed up the process by designing effective ETL solutions using the Azure services available for handling and transforming any data to suit your requirements. With this cookbook, you'll become well versed in all the features of SQL Server Integration Services (SSIS) to perform data migration and ETL tasks that integrate with Azure. You'll learn how to transform data in Azure and understand how legacy systems perform ETL on-premises using SSIS. Later chapters will get you up to speed with connecting and retrieving data from SQL Server 2019 Big Data Clusters, and even show you how to extend and customize the SSIS toolbox using custom-developed tasks and transforms. This ETL book also contains practical recipes for moving and transforming data with Azure services, such as Data Factory and Azure Databricks, and lets you explore various options for migrating SSIS packages to Azure. Toward the end, you'll find out how to profile data in the cloud and automate service creation with Business Intelligence Markup Language (BIML). By the end of this book, you'll have developed the skills you need to create and automate ETL solutions on-premises as well as in Azure. What you will learnExplore ETL and how it is different from ELTMove and transform various data sources with Azure ETL and ELT servicesUse SSIS 2019 with Azure HDInsight clustersDiscover how to query SQL Server 2019 Big Data Clusters hosted in AzureMigrate SSIS solutions to Azure and solve key challenges associated with itUnderstand why data profiling is crucial and how to implement it in Azure DatabricksGet to grips with BIML and learn how it applies to SSIS and Azure Data Factory solutionsWho this book is for This book is for data warehouse architects, ETL developers, or anyone who wants to build scalable ETL applications in Azure. Those looking to extend their existing on-premise ETL applications to use big data and a variety of Azure services or others interested in migrating existing on-premise solutions to the Azure cloud platform will also find the book useful. Familiarity with SQL Server services is necessary to get the most out of this book.**

Professional Android Jan 12 2021 The comprehensive developer guide to the latest Android featuresand capabilities Professional Android, 4th Edition shows developers how toleverage the latest features of Android to create robust andcompelling mobile apps. This hands-on approach provides in-depthcoverage through a series of projects, each introducing a newAndroid platform feature and highlighting the techniques and bestpractices that exploit its utmost functionality. The exercisesbegin simply, and gradually build into advanced Androiddevelopment. Clear, concise examples show you how to quicklyconstruct real-world mobile applications. This book is your guide to smart, efficient, effective Androiddevelopment. Learn the best practices that get more out of Android Understand the anatomy, lifecycle, and UI metaphor of Androidapps Design for all mobile platforms, including tablets Utilize both the Android framework and Google Playservices

Natural Language Processing and Information Systems Jun 04 2020 This book constitutes the refereed proceedings of the 21st International Conference on Applications of Natural Language to Information Systems, NLDB 2016, held in Salford, UK, in June 2016. The 17 full papers, 22 short papers, and 13 poster papers presented were carefully reviewed and selected from 83 submissions. The papers cover the following topics: theoretical aspects, algorithms, applications, architectures for applied and integrated NLP, resources for applied NLP, and other aspects of NLP.

The Semantic Web **Apr 26 2022 This book constitutes the refereed proceedings of the 16th International Semantic Web Conference, ESWC 2019, held in Portorož, Slovenia. The 39 revised full papers presented were carefully reviewed and selected from 134 submissions. The papers are organized in three tracks: research track, resources track, and in-use track and deal with the following topical areas: distribution and decentralisation, velocity on the Web, research of research, ontologies and reasoning, linked data, natural language processing and information retrieval, semantic data management and data infrastructures, social and human aspects of the Semantic Web, and, machine learning.**

Social Shaping of Digital Publishing: Exploring the Interplay Between Culture and Technology Aug 07 2020 The processes and forms of electronic publishing have been changing since the advent of the Web. In recent years, the open access movement has been a major driver of scholarly communication, and change is also evident in other fields such as e-government and e-learning. Whilst many changes are driven by technological advances, an altered social reality is also pushing the boundaries of digital publishing. With 23 articles and 10 posters, Elpub 2012 focuses on the social shaping of digital publishing and explores the interplay between culture and technology. This book contains the proceedings of the conference, consisting of 11 accepted full articles and 12 articles accepted as extended abstracts. The articles are presented in groups, and cover the topics: digital scholarship and publishing; special archives; libraries and repositories; digital texts and readings; and future solutions and innovations. Offering an overview of the current situation and exploring the trends of the future, this book will be of interest to all those whose work involves digital publishing.

Principles of Distributed Database Systems **Aug 26 2019 The fourth edition of this classic textbook provides major updates. This edition has completely new chapters on Big Data Platforms (distributed storage systems, MapReduce, Spark, data stream processing, graph analytics) and on NoSQL, NewSQL and polystore systems. It also includes an updated web data management chapter that includes RDF and semantic web discussion, an integrated database integration chapter focusing both on schema integration and querying over these systems. The peer-to-peer computing chapter has been updated with a discussion of blockchains. The chapters that describe classical distributed and parallel database technology have all been updated. The new edition covers the breadth and depth of the field from a modern viewpoint. Graduate students, as well as senior undergraduate students studying computer science and other related fields will use this book as a primary textbook. Researchers working in computer science will also find this textbook useful. This textbook has a companion web site that includes background information on relational database fundamentals, query processing, transaction management, and computer networks for those who might need this background. The web site also includes all the figures and presentation slides as well as solutions to exercises (restricted to instructors).**

Scalable Data Analytics with Azure Data Explorer **Nov 02 2022 Write efficient and powerful KQL queries to query and visualize your data and implement best practices to improve KQL execution performance Key FeaturesApply Azure Data Explorer best practices to manage your data at scale and reduce KQL execution timeDiscover how to query and visualize your data using the powerful KQLManage cluster performance and monthly costs by understanding how to size your ADX cluster correctlyBook Description Azure Data Explorer (ADX) enables developers and data scientists to make data-driven business decisions. This book will help you rapidly explore and query your data at scale and secure your ADX clusters. The book begins by introducing you to ADX, its architecture, core features, and benefits. You'll learn how to securely deploy ADX instances and navigate through the ADX Web UI, cover data ingestion, and discover how to query and visualize your data using the powerful Kusto Query Language (KQL). Next, you'll get to grips with KQL operators and functions to efficiently query and explore your data, as well as perform time series analysis and search**

for anomalies and trends in your data. As you progress through the chapters, you'll explore advanced ADX topics, including deploying your ADX instances using Infrastructure as Code (IaC). The book also shows you how to manage your cluster performance and monthly ADX costs by handling cluster scaling and data retention periods. Finally, you'll understand how to secure your ADX environment by restricting access with best practices for improving your KQL query performance. By the end of this Azure book, you'll be able to securely deploy your own ADX instance, ingest data from multiple sources, rapidly query your data, and produce reports with KQL and Power BI. What you will learnBecome well-versed with the core features of the Azure Data Explorer architectureDiscover how ADX can help manage your data at scale on AzureGet to grips with deploying your ADX environment and ingesting and analyzing your dataExplore KQL and learn how to query your dataQuery and visualize your data using the ADX UI and Power BIIngest structured and unstructured data types from an array of sourcesUnderstand how to deploy, scale, secure, and manage ADXWho this book is for This book is for data analysts, data engineers, and data scientists who are responsible for analyzing and querying their team's large volumes of data on Azure. SRE and DevOps engineers who deploy, maintain, and secure infrastructure will also find this book useful. Prior knowledge of Azure and basic data querying will help you to get the most out of this book.

Modelling and Development of Intelligent Systems Jun 28 2022 This volume constitutes the refereed proceedings of the 7th International Conference on Modelling and Development of Intelligent Systems, MDIS 2020, held in Sibiu, Romania, in October 2020. Due to the COVID-19 pandemic the conference was held online. The 25 revised full papers presented in the volume were carefully reviewed and selected from 57 submissions. The papers are organized in topical sections on evolutionary computing; intelligent systems for decision support; machine learning; mathematical models for development of intelligent systems; modelling and optimization of dynamic systems; ontology engineering.

Search Computing Jun 24 2019 Search computing, which has evolved from service computing, focuses on building the answers to complex search queries by interacting with a constellation of cooperating search services, using the ranking and joining of results as the dominant factors for service composition. The field is multi-disciplinary in nature and takes advantage of contributions from other research areas such as knowledge representation, human-computer interfaces, psychology, sociology, economics, and legal sciences. This book, the second in the Search Computing series, describes the evolution of theories, technologies, and methods related to search computing. The book has been divided into eight parts, reflecting the main research directions within the Search Computing project. The parts focus on: search as an information exploration task; interaction design issues when dealing with multi-domain search results; modeling and semantic description of search services; the rank-join problem; query processing techniques and architectures; tools and mashups for application development; the application of search computing to bio-informatics; and the exploitation potentials of project results.

Microsoft Office Professional 2010 Step by Step Mar 26 2022 Teach yourself exactly what you need to know about using Office Professional 2010-one step at a time! With STEP BY STEP, you build and practice new skills hands-on, at your own pace. Covering Microsoft Word, PowerPoint, Outlook, Excel, Access, Publisher, and OneNote, this book will help you learn the core features and capabilities needed to: Create attractive documents, publications, and spreadsheets Manage your e-mail, calendar, meetings, and communications Put your business data to work Develop and deliver great presentations Organize your ideas and notes in one place Connect, share, and accomplish more when working together"

Serverless Analytics with Amazon Athena Dec 11 2020 Get more from your data with Amazon Athena's ease-of-use, interactive performance, and pay-per-query pricing Key FeaturesExplore the promising capabilities of Amazon Athena and Athena's Query Federation SDKUse Athena to prepare data for common machine learning activitiesCover best practices for setting up connectivity between your application and Athena and security considerationsBook Description Amazon Athena is an interactive query service that makes it easy to analyze data in Amazon S3 using SQL, without needing to manage any infrastructure. This book begins with an overview of the serverless analytics experience offered by Athena and teaches you how to build and tune an S3 Data Lake using Athena, including how to structure your tables using open-source file formats like Parquet. You'll learn how to build, secure, and connect to a data lake with Athena and Lake Formation. Next, you'll cover key tasks such as ad hoc data analysis, working with ETL pipelines, monitoring and alerting KPI breaches using CloudWatch Metrics, running customizable connectors with AWS Lambda, and more. Moving on, you'll work through easy integrations, troubleshooting and tuning common Athena issues, and the most common reasons for query failure. You will also review tips to help diagnose and correct failing queries in your pursuit of operational excellence. Finally, you'll explore advanced concepts such as Athena Query Federation and Athena ML to generate powerful insights without needing to touch a single server. By the end of this book, you'll be able to build and use a data lake with Amazon Athena to add data-driven features to your app and perform the kind of ad hoc data analysis that often precedes many of today's ML modeling exercises. What you will learnSecure and manage the cost of querying your dataUse Athena ML and User Defined Functions (UDFs) to add advanced features to your reportsWrite your own Athena Connector to integrate with a custom data sourceDiscover your datasets on S3 using AWS Glue CrawlersIntegrate Amazon Athena into your applicationsSetup Identity and Access Management (IAM) policies to limit access to tables and databases in Glue Data CatalogAdd an Amazon SageMaker Notebook to your Athena queriesGet to grips with using Athena for ETL pipelinesWho this book is for Business intelligence (BI) analysts, application developers, and system administrators who are looking to generate insights from an ever-growing sea of data while controlling costs and limiting operational burden, will find this book helpful. Basic SQL knowledge is expected to make the most out of this book.

Learning Spark Aug 19 2021 Data is bigger, arrives faster, and comes in a variety of formats—and it all needs to be processed at scale for analytics or machine learning. But how can you process such varied workloads efficiently? Enter Apache Spark. Updated to include Spark 3.0, this second edition shows data engineers and data scientists why structure and unification in Spark matters. Specifically, this book explains how to perform simple and complex data analytics and employ machine learning algorithms. Through step-by-step walk-throughs, code snippets, and notebooks, you'll be able to: Learn Python, SQL, Scala, or Java high-level Structured APIs Understand Spark operations and SQL Engine Inspect, tune, and debug Spark operations with Spark configurations and Spark UI Connect to data sources: JSON, Parquet, CSV, Avro, ORC, Hive, S3, or Kafka Perform analytics on batch and streaming data using Structured Streaming Build reliable data pipelines with open source Delta Lake and Spark Develop machine learning pipelines with MLlib and productionize models using MLflow

***Hands-On Business Intelligence with DAX* Oct 21 2021 Implement business intelligence (BI), data modeling, and data analytics within Microsoft products such as Power BI, SQL Server, and Excel Key Features Understand the ins and outs of DAX expressions and querying functions with the help of easy-to-follow examples Manipulate data of varying complexity and optimize BI workflows to extract key insights Create, monitor, and improve the performance of models by writing clean and robust DAX queries Book Description Data Analysis Expressions (DAX) is known for its ability to increase efficiency by extracting new information from data that is already present in your model. With this book, you'll learn to use DAX's functionality and flexibility in the BI and data analytics domains. You'll start by learning the basics of DAX, along with understanding the importance of good data models, and how to write efficient DAX formulas by using variables and formatting styles. You'll then explore how DAX queries work with the help of examples. The book will guide you through optimizing the BI workflow by writing powerful DAX queries. Next, you'll learn to manipulate and load data of varying complexity within Microsoft products such as Power BI, SQL Server, and Excel Power Pivot. You'll then discover how to build and extend your data models to gain additional insights, before covering progressive DAX syntax and functions to understand complex relationships in DAX. Later, you'll focus on important DAX functions, specifically those related to tables, date and time, filtering, and statistics. Finally, you'll delve into advanced topics such as how the formula and storage engines work to optimize queries. By the end of this book, you'll have gained hands-on experience in employing DAX to enhance your data models by extracting new information and gaining deeper insights. What you will learn Understand DAX, from the basics through to advanced topics, and learn to build effective data models Write and use DAX functions and expressions with the help of hands-on examples Discover how to handle errors in your DAX code, and avoid unwanted results Load data into a data model using Power BI, Excel Power Pivot, and SSAS Tabular Cover DAX functions such as date, time, and time intelligence using code examples Gain insights into data by using DAX to create new information Understand the DAX VertiPaq engine and how it can help you optimize data models Who this book is for This book is for data analysts, business analysts, BI developers, or SQL users who want to make the best use of DAX in the BI and data analytics domain with the help of examples. Some understanding of BI concepts is mandatory to fully understand the concepts covered in the book.**

Excel Power Pivot & Power Query For Dummies May 04 2020 Learn to crunch huge amounts of data with PowerPivot and Power Query Do you have a ton of data you need to make sense of? Microsoft's Excel program can handle amazingly large data sets, but you'll need to get familiar with PowerPivot and Power Query to get started. And that's where Dummies comes in. With step-by-step instructions—accompanied by ample screenshots—Excel PowerPivot & Power Query For Dummies will teach you how to save time, simplify your processes, and enhance your data analysis and reporting. Use Power Query to discover, connect to, and import your organization's data. Then use PowerPivot to model it in Excel. You'll also learn to: Make use of databases to store large amounts of data Use custom functions to extend and enhance Power Query Add the functionality of formulas to PowerPivot and publish data to SharePoint If you're expected to wrangle, interpret, and report on large amounts of data, Excel PowerPivot & Power Query For Dummies gives you the tools you need to get up to speed quickly.

Microsoft Certified Azure Data Fundamentals (Exam DP-900) Certification Guide Dec 31 2019 Learn how to implement successful Azure Data projects and get the skills to clear the DP-900 certification exam with the help of mock tests and self-assessment scenarios for better preparation Key Features Get the knowledge you need to pass the DP-900 exam on your first attempt Gain fundamental knowledge of the core concepts of working with data in Azure cloud data services Learn through a practical approach and test yourself with mock exams at the end of the book Book Description Passing the DP-900 Microsoft Azure Data Fundamentals exam opens the door to a myriad of opportunities for working with data services in the cloud. But it is not an easy exam and you'll need a guide to set you up for success and prepare you for a career in Microsoft Azure. Absolutely everything you need to pass the DP-900 exam is covered in this concise handbook. After an introductory chapter covering the core terms and concepts, you'll go through the various roles related to working with data in the cloud and learn the similarities and differences between relational and non-relational databases. This foundational knowledge is crucial, as you'll learn how to provision and deploy Azure's relational and non-relational services in detail later in the book. You'll also gain an understanding of how to glean insights with data analytics at both small and large scales, and how to visualize your insights with Power BI. Once you reach the end of the book, you'll be able to test your knowledge with practice tests with detailed explanations of the correct answers. By the end of this book, you will be armed with the knowledge and confidence to not only pass the DP-900 exam but also have a solid foundation from which to embark on a career in Azure data services. What you will learn Explore the concepts of IaaS and PaaS database services on Azure Query, insert, update, and delete relational data using SQL Explore the concepts of data warehouses in Azure Perform data analytics with an Azure Synapse Analytics workspace Upload and retrieve data in Azure Cosmos DB and Azure HDInsight Provision and deploy non-relational data services in Azure Contextualize the knowledge with real-life use cases Test your progress with a mock exam Who this book is for This book is for data engineers, database administrators, or aspiring data professionals getting ready to take the DP-900 exam. It will also be helpful for those looking for a bit of guidance on how to be better equipped for Azure-related job roles such as Azure database administrator or Azure data engineer. A basic understanding of core data concepts and relational and non-relational data will help you make the most out of this book, but they're not a pre-requisite.

Beginning ASP.NET 2.0 and Databases Nov 21 2021 Combining both VB.Net and C# coverage in one book, this guide focuses on using ASP.NET 2.0 for solving business dynamic Web site challenges in a logical progression, from connecting to a database to displaying information to changing data Covers the fundamentals of connecting Web pages to databases, techniques for creating data objects and events, and ways to handle data errors Features tricks and traps for displaying data in grids, lists, and trees Goes beyond the usual basic techniques to discuss the best practices and pitfalls that can occur in real-world scenarios with SQL Server, Oracle, MySQL, Access, and the new SQL Server Express Edition

Big Data Analytics Nov 09 2020 This book constitutes the thoroughly refereed conference proceedings of the Second International Conference on Big Data Analytics, BDA 2013, held in Mysore, India, in December 2013. The 13 revised full papers were carefully reviewed and selected from 49 submissions and cover topics on mining social media data, perspectives on big data analysis, graph analysis, big data in practice.

Advances in Databases Sep 19 2021 This book constitutes the refereed proceedings of the 18th British National Conference on Databases, BNCOD 18, held in Chilton, UK, in July 2001. The 11 revised full papers presented together with one invited paper were carefully reviewed and selected. The papers are organized in topical sections on performance and optimization, objects: design and development, query optimization, and querying objects.

Data Science Techniques for Cryptocurrency Blockchains Apr 14 2021 This book brings together two major trends: data science and blockchains. It is one of the first books to systematically cover the analytics aspects of blockchains, with the goal of linking traditional data mining research communities with novel data sources. Data science and big data technologies can be considered cornerstones of the data-driven digital transformation of organizations and society. The concept of blockchain is predicted to enable and spark transformation on par with that associated with the invention of the Internet. Cryptocurrencies are the first successful use case of highly distributed blockchains, like the world wide web was to the Internet. The book takes the reader through basic data exploration topics, proceeding systematically, method by method, through supervised and unsupervised learning approaches and information visualization techniques, all the way to understanding the blockchain data from the network science perspective. Chapters introduce the cryptocurrency blockchain data model and methods to explore it using structured query language, association rules, clustering, classification, visualization, and network science. Each chapter introduces basic concepts, presents examples with real cryptocurrency blockchain data and offers exercises and questions for further discussion. Such an approach intends to serve as a good starting point for undergraduate and graduate students to learn data science topics using cryptocurrency blockchain examples. It is also aimed at researchers and analysts who already possess good analytical and data skills, but who do not yet have the specific knowledge to tackle analytic questions about blockchain transactions. The readers improve their knowledge about the essential data science techniques in order to turn mere transactional information into social, economic, and business insights.

Advances in Spatial and Temporal Databases Jul 26 2019 This book constitutes the refereed proceedings of the 7th International Conference on Spatial and Temporal Databases, SSTD 2001, held in Redondo Beach, CA, USA, in July 2001. The 25 revised full papers and two industrial papers presented were carefully reviewed and selected from a total of 70 submissions. The book offers topical sections on modeling and querying, moving-object query processing, query processing: architectures and cost estimation, processing advanced queries, formal aspects, data representation, industrial session, data warehousing and mining, and indexing.

Learn T-SQL Querying Dec 23 2021 Troubleshoot query performance issues, identify anti-patterns in code, and write efficient T-SQL queries Key FeaturesDiscover T-SQL functionalities and services that help you interact with relational databasesUnderstand the roles, tasks and responsibilities of a T-SQL developer Explore solutions for carrying out database querying tasks, database administration, and troubleshootingBook Description Transact-SQL (T-SQL) is Microsoft's proprietary extension to the SQL language that is used with Microsoft SQL Server and Azure SQL Database. This book will be a useful guide to learning the art of writing efficient T-SQL code in modern SQL Server versions, as well as the Azure SQL Database. The book will get you started with query processing fundamentals to help you write powerful, performant T-SQL queries. You will then focus on query execution plans and learn how to leverage them for troubleshooting. In the later

chapters, you will learn how to identify various T-SQL patterns and anti-patterns. This will help you analyze execution plans to gain insights into current performance, and determine whether or not a query is scalable. You will also learn to build diagnostic queries using dynamic management views (DMVs) and dynamic management functions (DMFs) to address various challenges in T-SQL execution. Next, you will study how to leverage the built-in tools of SQL Server to shorten the time taken to address query performance and scalability issues. In the concluding chapters, the book will guide you through implementing various features, such as Extended Events, Query Store, and Query Tuning Assistant using hands-on examples. By the end of this book, you will have the skills to determine query performance bottlenecks, avoid pitfalls, and discover the anti-patterns in use. Foreword by Conor Cunningham, Partner Architect – SQL Server and Azure SQL – Microsoft What you will learnUse Query Store to understand and easily change query performanceRecognize and eliminate bottlenecks that lead to slow performanceDeploy quick fixes and long-term solutions to improve query performanceImplement best practices to minimize performance risk using T-SQLAchieve optimal performance by ensuring careful query and index designUse the latest performance optimization features in SQL Server 2017 and SQL Server 2019Protect query performance during upgrades to newer versions of SQL ServerWho this book is for This book is for database administrators, database developers, data analysts, data scientists, and T-SQL practitioners who want to get started with writing T-SQL code and troubleshooting query performance issues, through the help of practical examples. Previous knowledge of T-SQL querying is not required to get started on this book.

Build a Weather Station with Elixir and Nerves Jun 16 2021 The Elixir programming language has become a go-to tool for creating reliable, fault-tolerant, and robust server-side applications. Thanks to Nerves, those same exact benefits can be realized in embedded applications. This book will teach you how to structure, build, and deploy production grade Nerves applications to network-enabled devices. The weather station sensor hub project that you will be embarking upon will show you how to create a full stack IoT solution in record time. You will build everything from the embedded Nerves device to the Phoenix backend and even the Grafana time-series data visualizations. Elixir as a programming language has found its way into many different software domains, largely in part to the rock-solid foundation of the Erlang virtual machine. Thanks to the Nerves framework, Elixir has also found success in the world of embedded systems and IoT. Having access to all of the Elixir and OTP constructs such as concurrency, supervision, and immutability makes for a powerful IoT recipe. Find out how to create fault-tolerant, reliable, and robust embedded applications using the Nerves framework. Build and deploy a production-grade weather station sensor hub using Elixir and Nerves, all while leveraging the best practices established by the Nerves community for structuring and organizing Nerves applications. Capture all of your weather station sensor data using Phoenix and Ecto in a lightweight server-side application. Efficiently store and retrieve the time-series weather data collected by your device using TimescaleDB (the Postgres extension for time-series data). Finally, complete the full stack IoT solution by using Grafana to visualize all of your time-series weather station data. Discover how to create software solutions where the underlying technologies and techniques are applicable to all layers of the project. Take your project from idea to production ready in record time with Elixir and Nerves. What You Need: To complete the Nerves weather station project in this book, you will need the following: A Linux, MacOS, or Windows computer to build and deploy Nerves firmware images A Raspberry Pi Zero W or any other Nerves supported target (https://hexdocs.pm/nerves/targets.html#supported-targets-and-systems) A VEML6030 light sensor An BME680 environmental sensor An SGP30 air quality sensor Qwiic connect cables for weather sensors

Interactive Information Visualization to Explore and Query Electronic Health Records May 28 2022 This work surveys the state-of-the-art of information visualization systems for exploring and querying Electronic Health Record systems (EHRs). It examines how systems differ in their features and highlights how these differences are related to their design and the medical scenarios that they tackle.

Mining the Social Web Jul 06 2020 How can you tap into the wealth of social web data to discover who's making connections with whom, what they're talking about, and where they're located? With this expanded and thoroughly revised edition, you'll learn how to acquire, analyze, and summarize data from all corners of the social web, including Facebook, Twitter, LinkedIn, Google+, GitHub, email, websites, and blogs. Employ the Natural Language Toolkit, NetworkX, and other scientific computing tools to mine popular social web sites Apply advanced text-mining techniques, such as clustering and TF-IDF, to extract meaning from human language data Bootstrap interest graphs from GitHub by discovering affinities among people, programming languages, and coding projects Build interactive visualizations with D3.js, an extraordinarily flexible HTML5 and JavaScript toolkit Take advantage of more than two-dozen Twitter recipes, presented in O'Reilly's popular "problem/solution/discussion" cookbook format The example code for this unique data science book is maintained in a public GitHub repository. It's designed to be easily accessible through a turnkey virtual machine that facilitates interactive learning with an easy-to-use collection of IPython Notebooks.

New Perspectives on Microsoft Access 2000 May 16 2021 Part of the New Perspectives series, this text offers a case-based, problem-solving approach and innovative technology for meaningful learning of Microsoft Access 2000.

Expert MySQL **Apr 02 2020 MySQL remains one of the hottest open source database technologies. As the database has evolved into a product competitive with proprietary counterparts like Oracle and IBM DB2, MySQL has found favor with large scale corporate users who require high-powered features and performance. Expert MySQL is the first book to delve deep into the MySQL architecture, showing users how to make the most of the database through creation of custom storage handlers, optimization of MySQL's query execution, and use of the embedded server product. This book will interest users deploying MySQL in high-traffic environments and in situations requiring minimal resource allocation.**

Exploring Services Science **Sep 07 2020 This book contains the refereed proceedings of the Second International Conference on Exploring Services Science (IESS) that was held in Geneva, Switzerland, in February 2010. Based on the previous edition and the momentum in this emerging and exciting field, IESS 2011 offered academics, researchers, and practitioners from various disciplines an exploratory platform to communicate and share their results and experiences. The 17 full and 2 short papers accepted for IESS were selected from 47 submissions and cover the whole life cycle of service development (including service innovation, service design, service composition, and service sustainability) as well as the application of services in information technology, businesses, and public administration.**

Efficient MySQL Performance **Jan 30 2020 You'll find several books on MySQL basics today, but only one that covers advanced MySQL performance--and nothing in between. That's because explaining MySQL performance without addressing its complexity is difficult. This practical book bridges the gap by teaching developers mid-level MySQL knowledge beyond the fundamentals, but well shy of deep-level internals required by DBAs. Daniel Nichter shows you how to apply best practices and techniques that directly affect efficient MySQL performance. You'll learn how to focus on query response time, optimize queries and data to increase performance, and monitor and understand the most important MySQL metrics. You'll also discover how not to use MySQL, including situations where this database is clearly the wrong choice. Understand why query response time is the North Star of MySQL performance Learn why indexing, not hardware or MySQL config, is the key to performance Examine query metrics in detail, including aggregation, reporting, and analysis Explore ways of improving query response time through query optimization Understand how to monitor MySQL and learn what the metrics mean**

Power Query Cookbook Aug 31 2022 Leverage your source data from hundreds of different connections, perform millions of different transformations, and easily manage highly complex data lifecycles with Power Query Key FeaturesCollect, combine, and transform data using Power Query's data connectivity and data preparation featuresOvercome the problems faced while accessing data from multiple sources and reshape it to meet your business requirementsExplore how the M language can be used to write your own customized solutionsBook Description Power Query is a data preparation tool that enables data engineers and business users to connect, reshape, enrich, and transform their data to facilitate relevant business insights and analysis. With Power Query's wide range of features, you can perform no-code transformations and complex M code functions at the same time to get the most out of your data. This Power Query book will help you to connect to data sources, achieve intuitive transformations, and get to grips with preparation practices. Starting with a general overview of Power Query and what it can do, the book advances to cover more complex topics such as M code and performance optimization. You'll learn how to extend these capabilities by gradually stepping away from the Power Query GUI and into the M programming language. Additionally, the book also shows you how to use Power Query Online within Power BI Dataflows. By the end of the book, you'll be able to leverage your source data, understand your data better, and enrich it with a full stack of no-code and custom features that you'll learn to design by yourself for your business requirements. What you will learnUnderstand how to use Power Query to connect and explore dataExplore ways to reshape and enrich dataDiscover the potential of Power Query across the Microsoft platformBuild complex and custom transformationsUse M code to write new queries against data sourcesUse the Power Query Online tool within Power BI DataflowsImplement best practices such as reusing dataflows, optimizing expanding table operations, and field mappingWho this book is for This book is for data analysts, BI developers, data engineers, and anyone looking for a desk reference guide to learn how Power Query can be used with different Microsoft products to handle data of varying complexity. Beginner-level knowledge of Power BI and the M Language will help you to get the best out of this book.

Passive and Active Measurement Sep 27 2019 This book constitutes the proceedings of the 23rd International Conference on Passive and Active Measurement, PAM 2022, held in March 2022. Due to COVID-19 pandemic, the conference was held virtually. The 15 full papers and 15 short papers presented in this volume were carefully reviewed and selected from 62 submissions. The papers present emerging and early-stage research in network measurements--work that seeks to better understand complex, real-world networked systems and offer critical empirical foundations and support to network research.

Google BigQuery: The Definitive Guide Oct 01 2022 Work with petabyte-scale datasets while building a collaborative, agile workplace in the process. This practical book is the canonical reference to Google BigQuery, the query engine that lets you conduct interactive analysis of large datasets. BigQuery enables enterprises to efficiently store, query, ingest, and learn from their data in a convenient framework. With this book, you'll examine how to analyze data at scale to derive insights from large datasets efficiently. Valliappa Lakshmanan, tech lead for Google Cloud Platform, and Jordan Tigani, engineering director for the BigQuery team, provide best practices for modern data warehousing within an autoscaled, serverless public cloud. Whether you want to explore parts of BigQuery you're not familiar with or prefer to focus on specific tasks, this reference is indispensable.

Advanced MySQL 8 Mar 02 2020 Design cost-efficient database solutions, scale enterprise operations and reduce overhead business costs with MySQL Key FeaturesExplore the new and advanced features of MySQL 8.0Use advanced techniques to optimize MySQL performanceCreate MySQL-based applications for your enterprise with the help of practical examplesBook Description Advanced MySQL 8 teaches you to enhance your existing database infrastructure and build various tools to improve your enterprise applications and overall website performance. The book starts with the new and exciting MySQL 8.0 features and how to utilize them for maximum efficiency. As you make your way through the chapters, you will learn to optimize MySQL performance using indexes and advanced data query techniques for large queries. You will also discover MySQL Server 8.0 settings and work with the MySQL data dictionary to boost the performance of your database. In the concluding chapters, you will cover MySQL 8.0 Group Replication, which will enable you to create elastic, highly available, and fault-tolerant replication topologies. You will also explore backup and recovery techniques for your databases and understand important tips and tricks to help your critical data reach its full potential. By the end of this book, you'll have learned about new MySQL 8.0 security features that allow a database administrator (DBA) to simplify user management and increase the security of their multi-user environments. What you will learnExplore new and exciting features of MySQL 8.0Analyze and optimize large MySQL queriesUnderstand MySQL Server 8.0 settingsMaster the deployment of Group Replication and use it in an InnoDB clusterMonitor large distributed databasesDiscover different types of backups and recovery methods for your databasesExplore tips to help your critical data reach its full potentialWho this book is for Advanced MySQL 8 is for database administrators, data architects, and database developers who want to dive deeper into building advanced database applications in the MySQL environment.

Exploring Natural Language **Jul 30 2022 ICE-GB is a 1 million-word corpus of contemporary British English. It is fully parsed, and contains over 83,000 syntactic trees. Together with the dedicated retrieval software, ICECUP, ICE-GB is an unprecedented resource for the study of English syntax.Exploring Natural Language is a comprehensive guide to both corpus and software. It contains a full reference for ICE-GB. The chapters on ICECUP provide complete instructions on the use of the many features of the software, including concordancing, lexical and grammatical searches, sociolinguistic queries, random sampling, and searching for syntactic structures using ICECUP's Fuzzy Tree Fragment models. Special attention is given to the principles of experimental design in a parsed corpus. Six case studies provide step-by-step illustrations of how the corpus and software can be used to explore real linguistic issues, from simple lexical studies to more complex syntactic topics, such as noun phrase structure, verb transitivity, and voice.**

Data Exploration Using Example-Based Methods Jan 24 2022 Data usually comes in a plethora of formats and dimensions, rendering the information extraction and exploration processes challenging. Thus, being able to perform exploratory analyses of the data with the intent of having an immediate glimpse of some of the data properties is becoming crucial. Exploratory analyses should be simple enough to avoid complicated declarative languages (such as SQL) and mechanisms, while at the same time retaining the flexibility and expressiveness of such languages. Recently, we have witnessed a rediscovery of the so-called example-based methods, in which the user, or analyst, circumvents query languages by using examples as input. An example is a representative of the intended results or, in other words, an item from the result set. Example-based methods exploit inherent characteristics of the data to infer the results that the user has in mind but may not be able to (easily) express. They can be useful in cases where a user is looking for information in an unfamiliar dataset, when they are performing a particularly challenging task like finding duplicate items, or when they are simply exploring the data. In this book, we present an excursus over the main methods for exploratory analysis, with a particular focus on example-based methods. We show how different data types require different techniques and present algorithms that are specifically designed for relational, textual, and graph data. The book also presents the challenges and new frontiers of machine learning in online settings that have recently attracted the attention of the database community. The book concludes with a vision for further research and applications in this area.

Microsoft SQL Server 2012 T-SQL Fundamentals **Feb 10 2021 Presents information on the fundamentals of T-SQL to develop code and query and modify data in Microsoft SQL Server 2012.**