Joe Celkos Complete Guide To Nosql What Every Sql Professional Needs To Know About Non Relational Databases

SQL & NoSQL DatabasesNoSQL For DummiesSQL and NoSQL DatabasesNoSQL EssentialsComparative Analysis of MySQL (Relational) with MongoDB (NoSQL) DatabasesJoe Celko's Complete Guide to NoSQLPhysical Design for Non-relational Data SystemsData Modeling With NoSQL DatabaseManaging Unstructured Data: NoSQL Database EssentialsBridging Relational and NoSQL DatabasesA Deep Dive into NoSQL Databases: The Use Cases and ApplicationsNoSQL for Mere MortalsNo RelationA Practical Guide to Artificial Intelligence and Data AnalyticsData Access for Highly-Scalable SolutionsDevOps for DatabasesData Modeling with NoSQL DatabaseMicrosoft Certified Azure Data Fundamentals (Exam DP-900) Certification GuideCloud Computing: A Hands-On ApproachAzure Modern Data Architecture Andreas Meier Adam Fowler Michael Kaufmann Frahaan Hussain Independently Published Joe Celko Michael J. Mior Sultan Ahmad Anooja Ali Gaspar, Drazena Dan Sullivan Ian Thomas Varley Rayan Wali Douglas McMurtry David Jambor Ajit Singh Marcelo Leite Arshdeep Bahga Anouar BEN ZAHRA

SQL & NoSQL Databases NoSQL For Dummies SQL and NoSQL Databases NoSQL Essentials Comparative Analysis of MySQL (Relational) with MongoDB (NoSQL) Databases Joe Celko's Complete Guide to NoSQL Physical Design for Non-relational Data Systems Data Modeling With NoSQL Database Managing Unstructured Data: NoSQL Database Essentials Bridging Relational and NoSQL Databases A Deep Dive into NoSQL Databases: The Use Cases and Applications NoSQL for Mere Mortals No Relation A Practical Guide to Artificial Intelligence and Data Analytics Data Access for Highly-Scalable Solutions DevOps for Databases Data Modeling with NoSQL Database Microsoft Certified Azure Data Fundamentals (Exam DP-900) Certification Guide Cloud Computing: A Hands-On Approach Azure Modern Data Architecture *Andreas Meier Adam Fowler Michael Kaufmann Frahaan Hussain Independently Published Joe Celko Michael J.*

Mior Sultan Ahmad Anooja Ali Gaspar, Drazena Dan Sullivan Ian Thomas Varley Rayan Wali Douglas McMurtry David Jambor Ajit Singh Marcelo Leite Arshdeep Bahga Anouar BEN ZAHRA

this book offers a comprehensive introduction to relational sql and non relational nosql databases the authors thoroughly review the current state of database tools and techniques and examine coming innovations the book opens with a broad look at data management including an overview of information systems and databases and an explanation of contemporary database types sql and nosql databases and their respective management systems the nature and uses of big data a high level view of the organization of data management data modeling and consistency chapter length treatment is afforded data modeling in both relational and graph databases including enterprise wide data architecture and formulas for database design coverage of languages extends from an overview of operators to sql and and qbe query by example to integrity constraints and more a full chapter probes the challenges of ensuring data consistency covering multi user operation troubleshooting consistency in massive distributed data comparison of the acid and base consistency models and more system architecture also gets from its own chapter which explores processing of homogeneous and heterogeneous data storage and access structures multi dimensional data structures and parallel processing with mapreduce among other topics post relational and nosql databases the chapter on post relational databases discusses the limits of sql and what lies beyond including multi dimensional databases knowledge bases and and fuzzy databases a final chapter covers nosql databases along with development of non relational technologies key value column family and document stores xml databases and graphic databases and more the book includes more than 100 tables examples and illustrations and each chapter offers a list of resources for further reading sql nosql databases conveys the strengths and weaknesses of relational and non relational approaches and shows how to undertake development for big data applications the book benefits readers including students and practitioners working across the broad field of applied information technology this textbook has been recommended and developed for university courses in germany austria and switzerland

get up to speed on the nuances of nosql databases and what they mean for your organization this easy to read guide to nosql databases provides the type of no nonsense overview and analysis that you need to learn including what nosql is and which database is right for you featuring specific evaluation criteria

for nosql databases along with a look into the pros and cons of the most popular options nosql for dummies provides the fastest and easiest way to dive into the details of this incredible technology you ll gain an understanding of how to use nosql databases for mission critical enterprise architectures and projects and real world examples reinforce the primary points to create an action oriented resource for it pros if you re planning a big data project or platform you probably already know you need to select a nosql database to complete your architecture but with options flooding the market and updates and add ons coming at a rapid pace determining what you require now and in the future can be a tall task this is where nosql for dummies comes in learn the basic tenets of nosql databases and why they have come to the forefront as data has outpaced the capabilities of relational databases discover major players among nosql databases including cassandra mongodb marklogic neo4j and others get an in depth look at the benefits and disadvantages of the wide variety of nosql database options explore the needs of your organization as they relate to the capabilities of specific nosql databases big data and hadoop get all the attention but when it comes down to it nosql databases are the engines that power many big data analytics initiatives with nosql for dummies you ll go beyond relational databases to ramp up your enterprise s data architecture in no time

this textbook offers a comprehensive introduction to relational sql and non relational nosql databases the authors thoroughly review the current state of database tools and techniques and examine upcoming innovations in the first five chapters the authors analyze in detail the management modeling languages security and architecture of relational databases graph databases and document databases moreover an overview of other sql and nosql based database approaches is provided in addition to classic concepts such as the entity and relationship model and its mapping in sql database schemas query languages or transaction management other aspects for nosql databases such as non relational data models document and graph query languages mql cypher the map reduce procedure distribution options sharding replication or the cap theorem consistency availability partition tolerance are explained this 2nd english edition offers a new in depth introduction to document databases with a method for modeling document structures an overview of the document oriented mongodb query language mql as well as security and architecture aspects the topic of database security is newly introduced as a separate chapter and analyzed in detail with regard to data protection integrity and transactions texts on data management database programming and

data warehousing and data lakes have been updated in addition the book now explains the concepts of json json schema bson index free neighborhood cloud databases search engines and time series databases the book includes more than 100 tables examples and illustrations and each chapter offers a list of resources for further reading it conveys an in depth comparison of relational and non relational approaches and shows how to undertake development for big data applications this way it benefits students and practitioners working across the broad field of data science and applied information technology

dive into the dynamic and evolving world of nosql databases with nosql essentials navigating the world of non relational databases this comprehensive guide is your passport to understanding the intricacies and power of nosql technology a crucial tool in managing and interpreting the vast ocean of data in today s digital landscape traditional relational databases have been the backbone of data storage and retrieval for decades however with the explosion of big data the limitations of these systems have become increasingly apparent enter nosql a flexible scalable and efficient alternative this book demystifies the nosql paradigm offering insights into its diverse types including document stores like mongodb key value stores like redis wide column stores like cassandra and graph databases like neo4j authored by a seasoned expert in database technologies nosql essentials begins with a historical overview of data storage systems leading up to the emergence of nosql it provides a solid foundation for understanding the challenges faced by traditional databases and the solutions offered by nosql the core chapters delve into the architectural principles of nosql databases discussing their advantages in scalability flexibility and performance with detailed explanations and practical examples the book guides you through the nuances of data modeling in a nosql context highlighting how it differs from relational models one of the book s key strengths is its hands on approach it offers practical advice on selecting the right nosql database for specific project needs and provides step by step guidance on setup configuration and optimization the book also covers advanced topics such as data sharding replication and consistency models ensuring that readers are equipped with a comprehensive understanding of nosql technologies nosql essentials is rich with real world scenarios case studies and best practices making it an invaluable resource for it professionals software developers and anyone involved in database design or big data whether you re new to the world of nosql or looking to deepen your existing knowledge this book is an essential tool in navigating the ever changing database landscape embrace the future of data management and unlock the potential of nosql with nosql essentials navigating

the world of non relational databases

as huge amount of data is increasing day by day and it cannot be managed easily by relational databases because of low scalability provided by the relational databases the storage technology is still not capable enough for the performance and scalability that is needed to store data but after 2005 nosql databases have come in existence and start solving the problems that relational databases were facing before nosql is a type of such databases that come under non relational databases there are four types of nosql databases and these types are key value store column store document databases graph databases each one of these databases has different features now the question arise is whether non relational databases are the right choice to continue or to stay with the old relational databases for applications and web development and from where nosql came from how they are represented and what are the types of relational and non relational databases these all questions are going to be explained in this thesis the objectives of this thesis are to show that the why need of nosql databases became necessary with the time second objective is to show the types and representation of various types of relational and non relational databases third objective is to focus about mongodb which is a type of document databases under the category of nosql database that is a non relational database and comparison of mysql that is a relational database with mongodb by how to represent these two databases and how to write answers for same query in mysql and mongodb then a comparison analysis by calculating the time of selection updating and deleting between mongodb and mysql

joe celko s complete guide to nosql provides a complete overview of non relational technologies so that you can become more nimble to meet the needs of your organization as data continues to explode and grow more complex sql is becoming less useful for querying data and extracting meaning in this new world of bigger and faster data you will need to leverage non relational technologies to get the most out of the information you have learn where when and why the benefits of nosql outweigh those of sql with joe celko s complete guide to nosql this book covers three areas that make today s new data different from the data of the past velocity volume and variety when information is changing faster than you can collect and query it it simply cannot be treated the same as static data celko will help you understand velocity to equip you with the tools to drink from a fire hose old storage and access models do not work

for big data celko will help you understand volume as well as different ways to store and access data such as petabytes and exabytes not all data can fit into a relational model including genetic data semantic data and data generated by social networks celko will help you understand variety as well as the alternative storage query and management frameworks needed by certain kinds of data gain a complete understanding of the situations in which sql has more drawbacks than benefits so that you can better determine when to utilize nosql technologies for maximum benefit recognize the pros and cons of columnar streaming and graph databases make the transition to nosql with the expert guidance of best selling sql expert joe celko

decades of research have gone into the optimization of physical designs query execution and related tools for relational databases these techniques and tools make it possible for non expert users to make effective use of relational database management systems however the drive for flexible data models and increased scalability has spawned a new generation of data management systems which largely eschew the relational model these include systems such as nosql databases and distributed analytics frameworks such as apache spark which make use of a diverse set of data models optimization techniques and tools developed for relational data do not directly apply in this setting this leaves developers making use of these systems with the need to become intimately familiar with system details to obtain good performance we present techniques and tools for physical design for non relational data systems we explore two settings nosql database systems and distributed analytics frameworks while nosql databases often avoid explicit schema definitions many choices on how to structure data remain these choices can have a significant impact on application performance the data structuring process normally requires expert knowledge of the underlying database we present the nosql schema evaluator nose given a target workload nose provides an optimized physical design for nosql database applications which compares favourably to schemas designed by expert users to enable existing applications to benefit from conceptual modeling we also present an algorithm to recover a logical model from a denormalized database instance our second setting is distributed analytics frameworks such as apache spark as is the case for nosql databases expert knowledge of spark is often required to construct efficient data pipelines in nosql systems a key challenge is how to structure stored data while in spark a key challenge is how to cache intermediate results we examine a particularly common scenario in spark which involves performing iterative analysis on an input dataset we show that jobs written in an intuitive manner

using existing spark apis can have poor performance we propose respark which automates caching decisions for iterative spark analyses like nose respark makes it possible for non expert users to obtain good performance from a non relational data system

an important step in database implementation is the data modeling because it facilitates the understanding of the project through key features that can prevent programming and operation errors in database technologies some of the new issues increasingly debated arenon conventional applications including nosql not only sql databases whichwere initially created in response to the needs for better scalability lowerlatency and higher flexibility in an era of bigdata and cloud computing thesenon functional aspects are the main reason for using nosql database data modeling has an important role to play in nosql environments the datamodeling process involves the creation of a diagram that represents the meaning of the data and the relationship between the data elements thus understanding is a fundamental aspect of data modeling and a pattern for this kind of representation has few contributions for nosql databases this book explains a nosql data modeling standard introducing modeling techniques that can be used on document oriented databases we have considered cassandra and riak nosql databases because of the heterogeneous characteristics of each nosql database classification so that to fill the knowledge gap by studying the available non relational databases in order to develop a systematic approach for solving problems of data persistence using these technologies ajit sultan

managing unstructured data nosql database essentials is a reference book and guide for teaching and reading skills to college faculty and students in chapter1 the fundamentals of database and relational data base are discussed this chapter helps students to understand data management concepts by data modelling schema design data storage and retrieval this chapter includes the foundational skills that are applicable across various industries and provides a stepping stone for further specialization and career development the chapter 2 is all about unstructured data varying methods for managing analysing and storing data are needed for varying levels of organization and complexity which are represented by structured unstructured and semi structured data this chapter provides a platform for students to understand the transition from structured to unstructured data in terms of data management and analysis and it is a pivotal aspect of modern data management in chapter 3 concepts of nosql data base and the major differences with sql

relational data bases are highlighted this chapter explains the adoptions of nosql with flexible schema scalability high performance and support for distributed architecture chapter 4 is all about nosql databases or not only sql databases which represent a diverse set of database technologies designed to address specific challenges not well served by traditional relational databases a brief overview of the main types of nosql databases are discussed here the four basic data models such as key value pairs document oriented columnar and graph based structures are represented in this chapter information on popular nosql database technologies is given in chapter 5 details of technologies like apache hbase apache couchdb neo4j apache cassandra and their comparison are also provided here it includes the distributed architecture with fault tolerance high availability and disaster recovery capabilities for ensuring data integrity and business continuity chapter 6 discusses the overview of mongo db which is a document oriented nosql database known for its flexibility scalability and ease of use the features of mongo db including document store mongodb protocol horizontal scalability cross platform compatibility replication and sharding are also covered here chapter 7 deals with concurrency control in databases it discusses about the methods to obtain concurrency in structured data and then in unstructured data challenges in concurrency control for unstructured data commits in transaction and the different isolation levels chapter 8 discusses on how unstructured data are used in big data processing it includes query processing performance evaluation in big data systems the types od dirty data data cleansing is explained in detail with the steps in cleansing exploratory data analysis and data visualization hope this book on managing unstructured data nosql database essentials will provide a handy and useful reference book for teachers and students on unstructured database

relational databases have been predominant for many years and are used throughout various industries the current system faces challenges related to size and variety of data thus the nosql databases emerged by joining these two database models there is room for crucial developments in the field of computer science bridging relational and nosql databases is an innovative source of academic content on the convergence process between databases and describes key features of the next database generation featuring coverage on a wide variety of topics and perspectives such as base approach cap theorem and hybrid and native solutions this publication is ideally designed for professionals and researchers interested in the features and collaboration of relational and nosql databases

a deep dive into nosql databases the use cases and applications volume 109 the latest release in the advances in computers series first published in 1960 presents detailed coverage of innovations in computer hardware software theory design and applications in addition it provides contributors with a medium in which they can explore their subjects in greater depth and breadth this update includes sections on nosql and newsql databases for big data analytics and distributed computing newsql databases and scalable in memory analytics nosql web crawler application nosql security a comparative study of different in memory no new sql databases nosql hands on 4 nosqls the hadoop ecosystem and more provides a very comprehensive yet compact book on the popular domain of nosql databases for it professionals practitioners and professors articulates and accentuates big data analytics and how it gets simplified and streamlined by nosql database systems sets a stimulating foundation with all the relevant details for nosql database researchers developers and administrators

the easy common sense guide to solving real problems with nosql the mere mortals tutorials have earned worldwide praise as the clearest simplest way to master essential database technologies now there s one for today s exciting new nosql databases nosql for mere mortals guides you through solving real problems with nosql and achieving unprecedented scalability cost efficiency flexibility and availability drawing on 20 years of cutting edge database experience dan sullivan explains the advantages use cases and terminology associated with all four main categories of nosql databases key value document column family and graph databases for each he introduces pragmatic best practices for building high value applications through step by step examples you ll discover how to choose the right database for each task and use it the right way coverage includes getting started what nosql databases are how they differ from relational databases when to use them and when not to data management principles and design criteria essential knowledge for creating any database solution nosql or relational key value databases gaining more utility from data structures document databases schemaless databases normalization and denormalization mutable documents indexing and design patterns column family databases google s bigtable design table design indexing partitioning and big data graph databases graph network modeling design tips query methods and traps to avoid whether you re a database developer data modeler database user or student learning nosql can open up immense new opportunities as thousands of database professionals already know for mere mortals is

the fastest easiest route to mastery

this paper investigates a new class of database systems loosely referred to as non relational databases which offer a subset of traditional relational database functionality in exchange for improved scalability performance and or simplicity we explore the differences in conceptual modeling techniques and examine both the advantages and limitations of several classes of currently available systems using running examples of real world problems as implemented in both a traditional relational database model as well as several non relational models

whether you are looking to prepare for ai ml data science job interviews or you are a beginner in the field of data science and ai this book is designed for engineers and ai enthusiasts like you at all skill levels taking a different approach from a traditional textbook style of instruction a practical guide to ai and data analytics touches on all of the fundamental topics you will need to understand deeper into machine learning and artificial intelligence research literature and practical applications with its four parts part i concept instruction part ii 8 full length case studies part iii 50 mixed exercises part iv a full length assessment with an illustrative approach to instruction worked examples and case studies this easy to understand book simplifies many of the ai and data analytics key concepts leading to an improvement of ai ml system design skills

all applications use data and most applications also need to store this data somewhere in the world of business solutions this often meant creating a relational database however relational technology is not always the best solution to meet the increasingly complex data processing requirements of modern business systems especially when this processing involves storing and retrieving massive amounts of data the advent of nosql databases has changed the way in which organizations have started to think about the way in which they structure their data there is no standard definition of what a nosql database is other than they are all non relational they are less generalized than relational databases but the driving force behind most nosql databases is focused efficiency and high scalability the downside of nosql is that no single database is likely to be able to support the complete range of business requirements mandated by your applications how do you select the most appropriate database to use or should you remain with the relational model a modern business

application is not restricted to using a single data store and an increasing number of solutions are now based on a polyglot architecture the key to designing a successful application is to understand which databases best meet the needs of the various parts of the system and how to combine these databases into a single seamless solution this guide helps you understand these challenges and enables you to apply the principles of nosql databases and polyglot solutions in your own environment to help illustrate how to build a polyglot solution this guide presents a case study of a fictitious company faced with building a highly scalable web application capable of supporting many thousands of concurrent users

implement automate build operate and optimize databases and other data persistent technologies efficiently by leveraging the right set of devops best practices key features implement core operational capabilities via automated pipelines including testing and rollbacks create infrastructure deploy software test execution and monitor operations using the as code strategy automate common implementation patterns for databases with declarative orchestration frameworks purchase of the print or kindle book includes a free pdf ebook book descriptionin today s rapidly evolving world of devops traditional silos are a thing of the past database administrators are no longer the only experts site reliability engineers sres and devops engineers are database experts as well this blurring of the lines has led to increased responsibilities making members of high performing devops teams responsible for end to end ownership this book helps you master devops for databases making it a must have resource for achieving success in the ever changing world of devops you ll begin by exploring real world examples of devops implementation and its significance in modern data persistent technologies before progressing into the various types of database technologies and recognizing their strengths weaknesses and commonalities as you advance the chapters will teach you about design implementation testing and operations using practical examples as well as common design patterns combining them with tooling technology and strategies for different types of data persistent technologies you ll also learn how to create complex end to end implementation deployment and cloud infrastructure strategies defined as code by the end of this book you ll be equipped with the knowledge and tools to design build and operate complex systems efficiently what you will learn apply devops best practices to data persistent technologies get to grips with architectural level design and implementation explore the modern data journey and data modeling with database technology master the operation of large scale systems with zero touch automation achieve speed

resilience security and operability at different scales design devops teams with end to end ownership models who this book is for this book is for newcomers as well as seasoned sres devops engineers and system engineers who are interested in large scale systems with a heavy focus on data persistent technologies database administrators looking to level up in the world of devops will also find this book helpful experience with cloud infrastructure basic development and operations will help you get the most out of this book

an important step in database implementation is the data modeling because it facilitates the understanding of the project through key features that can prevent programming and operation errors in database technologies some of the new issues increasingly debated are non conventional applications including nosql not only sql databases which were initially created in response to the needs for better scalability lower latency and higher flexibility in an era of bigdata and cloud computing these non functional aspects are the main reason for using nosql database data modeling has an important role to play in nosql environments the data modeling process involves the creation of a diagram that represents the meaning of the data and the relationship between the data elements thus understanding is a fundamental aspect of data modeling and a pattern for this kind of representation has few contributions for nosql databases this edition 3rd explains a nosql data modeling standard introducing modeling techniques that can be used on document oriented databases we have considered cassandra and riak nosql databases because of the heterogeneous characteristics of each nosql database classification so that to fill the knowledge gap by studying the available non relational databases in order to develop a systematic approach for solving problems of data persistence using these technologies ajit

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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 learnexplore the concepts of iaas and paas database services on azurequery insert update and delete relational data using sqlexplore the concepts of data warehouses in azureperform data analytics with an azure synapse analytics workspaceupload and retrieve data in azure cosmos db and azure hdinsightprovision and deploy non relational data services in azurecontextualize the knowledge with real life use casestest your progress with a mock examwho 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

about the book recent industry surveys expect the cloud computing services market to be in excess of 20 billion and cloud computing jobs to be in excess of 10 million worldwide in 2014 alone in addition since a majority of existing information technology it jobs is focused on maintaining legacy in house systems the demand for these kinds of jobs is likely to drop rapidly if cloud computing continues to take hold of the industry however there are very few educational options available in the area of cloud computing beyond vendor specific training by cloud providers themselves cloud computing courses have not found their way yet into mainstream college curricula this book is written as a textbook on cloud computing for educational programs at colleges it can also be used by cloud service providers who may be interested in offering a broader perspective of cloud computing to accompany their own customer and

employee training programs the typical reader is expected to have completed a couple of courses in programming using traditional high level languages at the college level and is either a senior or a beginning graduate student in one of the science technology engineering or mathematics stem fields we have tried to write a comprehensive book that transfers knowledge through an immersive hands on approach where the reader is provided the necessary guidance and knowledge to develop working code for real world cloud applications additional support is available at the book s website cloudcomputingbook info organization the book is organized into three main parts part i covers technologies that form the foundations of cloud computing these include topics such as virtualization load balancing scalability elasticity deployment and replication part ii introduces the reader to the design programming aspects of cloud computing case studies on design and implementation of several cloud applications in the areas such as image processing live streaming and social networks analytics are provided part iii introduces the reader to specialized aspects of cloud computing including cloud application benchmarking cloud security multimedia applications and big data analytics case studies in areas such as it healthcare transportation networking and education are provided

key features discover the key drivers of successful azure architecture practical guidance focus on scalability and performance expert authorship book description this book presents a guide to design and implement scalable secure and efficient data solutions in the azure cloud environment it provides data architects developers and it professionals who are responsible for designing and implementing data solutions in the azure cloud environment with the knowledge and tools needed to design and implement data solutions using the latest azure data services it covers a wide range of topics including data storage data processing data analysis and data integration in this book you will learn how to select the appropriate azure data services design a data processing pipeline implement real time data processing and implement advanced analytics using azure databricks and azure synapse analytics you will also learn how to implement data security and compliance including data encryption access control and auditing whether you are building a new data architecture from scratch or migrating an existing on premises solution to azure the azure data architecture guidelines are an essential resource for any organization looking to harness the power of data in the cloud with these guidelines you will gain a deep understanding of the principles and best practices of azure data architecture and be equipped to build data solutions that are highly scalable secure and cost effective what you need to use this book to use this book it is

recommended that readers have a basic understanding of data architecture concepts and data management principles some familiarity with cloud computing and azure services is also helpful the book is designed for data architects data engineers data analysts and anyone involved in designing implementing and managing data solutions on the azure cloud platform it is also suitable for students and professionals who want to learn about azure data architecture and its best practices

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