

microsoft sql server 2019 a beginners guide

Microsoft SQL Server 2019: A Beginners Guide

microsoft sql server 2019 a beginners guide is the perfect starting point for anyone eager to dive into the world of database management with one of the most powerful and widely used relational database management systems (RDBMS). Whether you are a developer, data analyst, IT professional, or just someone curious about databases, understanding Microsoft SQL Server 2019 can open many doors. This guide will walk you through the essentials, helping you get comfortable with the platform, its features, and how you can start using it effectively.

What is Microsoft SQL Server 2019?

Microsoft SQL Server 2019 is a comprehensive database platform designed to handle a wide range of data workloads – from small applications to large-scale enterprise systems. It supports structured, semi-structured, and unstructured data, making it highly versatile. Built with performance, security, and scalability in mind, SQL Server 2019 integrates seamlessly with other Microsoft products and cloud services, providing a modern solution for data storage, processing, and analysis.

The 2019 version introduces enhancements like Big Data Clusters, improved intelligent query processing, and enhanced security features. For beginners, this means you're working with a robust, future-proof system that can grow with your needs.

Getting Started with Microsoft SQL Server 2019: Installation and Setup

Before you can explore SQL Server 2019, you'll need to install it. Microsoft offers a free edition called SQL Server Express, which is ideal for learning and small projects, while the Developer Edition provides full features for non-production environments.

Step-by-Step Installation Guide

1. **Download the Installer:** Head to the official Microsoft website and download the SQL Server 2019 installer.
2. **Choose the Edition:** For beginners, SQL Server Express or Developer Edition works well.
3. **Run the Setup:** The installer guides you through choosing features like the Database Engine, Reporting Services, and more.
4. **Configure Server:** Set up your instance name and authentication mode (Windows Authentication is easiest for beginners).
5. **Install SQL Server Management Studio (SSMS):** SSMS is a free tool that provides a graphical interface to manage your databases, write queries, and monitor server performance.

Understanding the Basics of SQL Server 2019

At its core, SQL Server 2019 is about managing data. But to make the most of it, you need to understand some fundamental concepts.

Databases, Tables, and Schemas

- **Databases:** Think of a database as a container that holds all your data related to a particular application or project.
- **Tables:** Inside databases, data is organized into tables, which are made up of rows and columns.
- **Schemas:** Schemas are logical containers within databases that group tables and other objects,

helping manage permissions and organization.

SQL Basics: The Language Behind SQL Server

SQL (Structured Query Language) is the language used to interact with SQL Server. As a beginner, focus on these key commands:

- **SELECT:** Retrieve data from tables.
- **INSERT:** Add new data.
- **UPDATE:** Modify existing data.
- **DELETE:** Remove data.

Learning basic SQL queries will empower you to manipulate and analyze your data effectively.

Exploring New Features in Microsoft SQL Server 2019

One of the reasons Microsoft SQL Server 2019 stands out is due to its innovative features that extend beyond traditional database management.

Big Data Clusters

SQL Server 2019 introduces Big Data Clusters, which allow you to deploy scalable clusters of SQL Server, Spark, and HDFS containers running on Kubernetes. This means you can manage big data and relational data in one unified platform – a game-changer for data scientists and analysts working with massive datasets.

Intelligent Query Processing

This feature enhances performance without requiring changes to your existing application code. It optimizes query execution dynamically, resulting in faster data retrieval and processing.

Enhanced Security

Security is vital, especially in the age of data breaches. SQL Server 2019 offers advanced security features like Always Encrypted with secure enclaves, data classification, and auditing capabilities to protect sensitive information.

Practical Tips for Beginners Using Microsoft SQL Server 2019

Jumping into SQL Server can be overwhelming, but these tips will help smooth your learning curve.

Start with SQL Server Management Studio (SSMS)

SSMS is your best friend when working with SQL Server. It provides a user-friendly interface to write queries, manage your databases, and visualize results without needing to rely solely on command-line tools.

Practice Writing Queries Regularly

SQL skills improve with practice. Use sample databases like AdventureWorks or WideWorldImporters to experiment with SELECT statements, JOINS, filtering, and data manipulation.

Backup Your Data Often

Even as a beginner, get into the habit of backing up your databases. SQL Server makes this easy, and understanding backups is critical for data protection and recovery.

Explore Online Resources and Communities

Microsoft's official documentation is a treasure trove of information. Additionally, forums like Stack Overflow, SQLServerCentral, and the Microsoft Tech Community offer valuable insights and help from experienced professionals.

Understanding SQL Server Editions and Licensing

As you grow more comfortable with Microsoft SQL Server 2019, it's useful to know the differences between editions and what might suit your needs.

- **Express Edition:** Free, lightweight, and great for learning or small applications.
- **Developer Edition:** Full-featured but limited to development and testing.
- **Standard Edition:** Suitable for mid-tier applications with moderate performance requirements.
- **Enterprise Edition:** Comes with the full set of features, ideal for large enterprises with demanding workloads.

Choosing the right edition depends on your project size, budget, and feature needs.

Integrating Microsoft SQL Server 2019 with Other

Technologies

SQL Server 2019 is designed to work well within a modern tech ecosystem.

Cloud Integration

With Azure SQL Database and Azure Synapse Analytics, you can extend your on-premises SQL Server environment to the cloud, enabling hybrid data solutions.

Programming Languages Support

Whether you code in Python, C#, Java, or other languages, SQL Server supports a variety of APIs and connectors, making it easier to build powerful applications.

Business Intelligence and Analytics

SQL Server integrates with tools like Power BI, allowing you to create insightful reports and dashboards directly from your database.

Final Thoughts on microsoft sql server 2019 a beginners guide

Embarking on your journey with Microsoft SQL Server 2019 opens up exciting possibilities in data management and analysis. While mastering this platform takes time, starting with the basics covered in

this guide will give you a strong foundation. Remember to explore hands-on practice, leverage community resources, and stay curious about the advanced features that can transform how you work with data. Whether building simple databases or handling complex big data projects, Microsoft SQL Server 2019 offers the tools to help you succeed.

Frequently Asked Questions

What is Microsoft SQL Server 2019?

Microsoft SQL Server 2019 is a relational database management system developed by Microsoft, designed to store and retrieve data as requested by other software applications.

Who is the target audience for 'Microsoft SQL Server 2019: A Beginner's Guide'?

The book is aimed at beginners and newcomers to SQL Server who want to learn how to install, configure, and use SQL Server 2019 effectively.

What are the basic concepts covered in 'Microsoft SQL Server 2019: A Beginner's Guide'?

The guide covers fundamental concepts such as database design, T-SQL programming, querying data, managing security, backups, and performance tuning.

How does the guide help with installing SQL Server 2019?

It provides step-by-step instructions on how to download, install, and configure SQL Server 2019, including setting up instances and management tools.

Does the beginner's guide cover writing SQL queries?

Yes, it introduces T-SQL syntax and helps beginners write queries to create, read, update, and delete data in SQL Server databases.

Are there practical examples included in the guide?

Yes, the guide includes practical examples and exercises to help readers practice SQL commands and database management tasks.

Can beginners learn about SQL Server security from this guide?

Absolutely, the guide covers essential security practices such as authentication, authorization, and role management in SQL Server 2019.

Does the book explain how to back up and restore databases?

Yes, it explains the concepts and procedures for backing up and restoring SQL Server databases to prevent data loss.

Is prior database experience required to use 'Microsoft SQL Server 2019: A Beginner's Guide'?

No, the guide is designed for absolute beginners and assumes no prior experience with databases or SQL Server.

Additional Resources

Microsoft SQL Server 2019: A Beginners Guide

microsoft sql server 2019 a beginners guide offers an essential starting point for database administrators, developers, and IT professionals aiming to harness the power of one of the most widely

used relational database management systems in the world. Microsoft SQL Server 2019 introduces several new features and enhancements that improve performance, security, and data analytics capabilities, making it a compelling choice for organizations ranging from small businesses to enterprise-level deployments.

Understanding the core functionalities and innovations within SQL Server 2019 is crucial for beginners who want to build a solid foundation in database management and data-driven application development. This guide will explore the key components, architectural improvements, and practical use cases, providing a clear perspective on how SQL Server 2019 can be leveraged effectively.

What is Microsoft SQL Server 2019?

Microsoft SQL Server 2019 is a relational database management system (RDBMS) developed by Microsoft. It is designed to store, retrieve, and manage data as requested by other software applications, whether they run on the same computer or across a network. SQL Server 2019 builds upon its predecessors by offering enhanced scalability, improved security features, and native integration with big data and artificial intelligence technologies.

One of the most notable advancements in this version is its support for big data clusters, which enable the combination of SQL Server with Apache Spark and Hadoop Distributed File System (HDFS). This integration allows users to process large volumes of data and perform analytics directly within the database platform, bridging traditional relational data with modern data science workloads.

Core Features and Enhancements

Microsoft SQL Server 2019 introduces a host of new features that differentiate it from previous versions:

- **Big Data Clusters:** Enables deployment of scalable clusters of SQL Server, Spark, and HDFS containers running on Kubernetes, facilitating data virtualization and advanced analytics.
- **Intelligent Query Processing:** A set of enhancements that improve query performance without requiring changes to application code.
- **Data Virtualization:** Allows users to query external data sources such as Oracle, Teradata, MongoDB, and others through PolyBase without importing the data.
- **Enhanced Security:** Features like Always Encrypted with secure enclaves provide stronger data protection and enable richer computations on encrypted data.
- **Linux Support:** Offers robust SQL Server capabilities on Linux environments, broadening deployment options.

These improvements showcase Microsoft's commitment to making SQL Server 2019 a versatile platform capable of meeting diverse data management and analytics needs.

Getting Started with Microsoft SQL Server 2019

For beginners, understanding how to install, configure, and interact with SQL Server 2019 is the first step toward mastering the platform. The installation process has been streamlined, and Microsoft offers various editions tailored to different use cases, including the free Express edition, Developer edition, and the fully featured Enterprise edition.

Installation and Setup

Installing SQL Server 2019 involves selecting the appropriate edition based on your requirements:

1. **Download the installer:** Available from Microsoft's official website.
2. **Choose installation type:** Basic, Custom, or Download Media.
3. **Configure server settings:** Define instance name, authentication mode (Windows or Mixed Mode), and specify administrators.
4. **Install SQL Server Management Studio (SSMS):** A graphical interface that simplifies database management and query execution.

SQL Server Management Studio is particularly valuable for beginners as it provides tools for designing databases, writing queries, and managing server instances without requiring extensive command-line knowledge.

Basic Concepts for Beginners

To effectively use SQL Server 2019, newcomers should familiarize themselves with foundational database concepts:

- **Database:** A structured collection of data stored electronically.
- **Tables:** Organized data storage units composed of rows and columns.
- **Queries:** Statements written in SQL (Structured Query Language) to retrieve or manipulate data.

- **Stored Procedures:** Predefined SQL code that can be executed repeatedly.
- **Indexes:** Data structures that improve query performance by allowing faster data retrieval.

Understanding these elements is critical in developing efficient database designs and optimizing data operations.

Exploring Key Functionalities in SQL Server 2019

Beyond basic operations, SQL Server 2019 offers advanced capabilities that can enhance application performance and data insights. Beginners should gradually explore these features to unlock the full potential of the platform.

Intelligent Query Processing

One of the standout features in SQL Server 2019, Intelligent Query Processing (IQP), includes improvements like batch mode on rowstore, table variable deferred compilation, and approximate query processing. These enhancements enable the database engine to optimize queries dynamically, often resulting in faster execution times without requiring query rewrites.

For instance, batch mode on rowstore allows analytical queries on traditional row-based tables to benefit from batch processing performance gains previously limited to columnstore indexes. This is particularly beneficial in environments where both transactional and analytical workloads coexist.

Big Data Clusters and Data Virtualization

SQL Server 2019's ability to create big data clusters is a game-changer for organizations dealing with massive datasets or complex analytics. By integrating SQL Server with Apache Spark and HDFS, users can build scalable, containerized data platforms that combine structured and unstructured data processing.

Additionally, data virtualization capabilities via PolyBase enable querying external data sources as if they were part of the SQL Server database. This reduces data movement and simplifies access to heterogeneous data environments, a common scenario in modern enterprises.

Evaluating Microsoft SQL Server 2019: Strengths and Considerations

From a professional standpoint, Microsoft SQL Server 2019 offers numerous advantages, but it also requires consideration of certain factors before adoption.

Pros

- **Robust Performance:** Intelligent Query Processing and in-memory technologies boost responsiveness.
- **Comprehensive Security:** Advanced encryption and compliance features ensure data protection.
- **Cross-Platform Flexibility:** Support for Windows and Linux broadens deployment options.

- **Integrated Analytics:** Native support for big data and machine learning tools enhances data insights.
- **Scalability:** Suitable for small applications up to large-scale enterprise systems.

Cons

- **Complexity for Beginners:** The extensive feature set may overwhelm new users without proper training.
- **Cost:** Licensing for Enterprise edition can be expensive for smaller organizations.
- **Resource Requirements:** High-performance features may demand significant hardware resources.

Weighing these aspects helps organizations determine if SQL Server 2019 aligns with their technical needs and budget constraints.

Practical Tips for Beginners

Embarking on the SQL Server 2019 journey can be smoother with some practical guidelines:

1. **Start with the Developer or Express Edition:** These editions provide full functionality or scaled-down versions at no cost, ideal for learning and development.

2. **Utilize SQL Server Management Studio:** It offers a user-friendly interface to interact with your databases.
3. **Learn T-SQL Fundamentals:** Mastering Transact-SQL is essential for querying and managing SQL Server databases.
4. **Explore Microsoft Documentation and Community Resources:** Extensive tutorials, forums, and official docs can accelerate learning.
5. **Experiment with Sample Databases:** Practice on databases like AdventureWorks to understand real-world scenarios.

These steps ensure a gradual and effective learning curve, minimizing frustration and maximizing productivity.

As organizations continue to generate and rely on data, mastering tools like Microsoft SQL Server 2019 becomes increasingly important. This beginners guide serves as a foundation for those aiming to develop expertise in one of the industry's leading database platforms, enabling them to contribute meaningfully to data-driven decision-making and application development.

[Microsoft Sql Server 2019 A Beginners Guide](#)

microsoft sql server 2019 a beginners guide: *Microsoft SQL Server 2019: A Beginner's Guide, Seventh Edition* Dusan Petkovic, 2020-01-03 Publisher's Note: Products purchased from Third Party sellers are not guaranteed by the publisher for quality, authenticity, or access to any online entitlements included with the product. Get Up to Speed on Microsoft® SQL Server® 2019 Quickly and Easily Start working with Microsoft SQL Server 2019 in no time with help from this thoroughly revised, practical resource. Filled with real-world examples and hands-on exercises, Microsoft SQL Server 2019: A Beginner's Guide, Seventh Edition starts by explaining fundamental relational database system concepts. From there, you'll learn how to write Transact-SQL statements, execute simple and complex database queries, handle system administration and security, and use powerful analysis and reporting tools. New topics such as SQL and JSON support, graph databases, and support for machine learning with R and Python are also covered in this step-by-step tutorial. • Install, configure, and customize Microsoft SQL Server 2019 • Create and modify database objects

with Transact-SQL statements • Write stored procedures and user-defined functions • Handle backup and recovery, and automate administrative tasks • Tune your database system for optimal availability and reliability • Secure your system using authentication, encryption, and authorization • Work with SQL Server Analysis Services, Reporting Services, and other BI tools • Gain knowledge of relational storage, presentation, and retrieval of data stored in the JSON format • Manage graphs using SQL Server Graph Databases • Learn about machine learning support for R and Python

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microsoft sql server 2019 a beginners guide: SQL: The Ultimate Beginners Guide To Learning SQL Programming with Hands On Projects Brandon Cooper, 2019-12-09 How to start creating and using SQL databases, even if you have no prior programming experience. Are you looking for a more streamlined way to manage information? Do you have large volumes of data that need to be accessed through a sophisticated communication system? Could your company benefit from the advantages SQL offers? SQL, or Structured Query Language, has been around since the 80s. It has proven to be effective and efficient, making it the ideal solution for your database demands. The best part? You can learn how to program using SQL in just nine chapters. SQL introduces you to the basics of programming using comprehensive examples and step by step practice problems that set you up for success. In addition, you'll discover: ●How to create your very first database ●Clauses to help you retrieve data ●Data manipulation functions ●The basics of queries and subqueries ●Transaction processing management ●Step by step instructions and walkthroughs to help you start programming right away And so much more! You don't have to be intimidated by the complexities of database management. With SQL, all your data problems can be solved. Click "add to cart" to learn how to take advantage of the powers of SQL and learn to wield them yourself.

microsoft sql server 2019 a beginners guide: Windows Server 2019 Administration Fundamentals Bekim Dauti, 2019-10-11 Deploy, set up, and deliver network services with Windows Server 2019, and prepare for the MTA 98-365 exam Key FeaturesGet started with server installation, performance monitoring, and server maintenanceDevelop the skills necessary to manage an enterprise environmentImplement networking and security best practices in your Windows Server environmentBook Description Windows Server 2019 is the server operating system introduced by Microsoft as part of the Windows NT family of operating systems, developed concurrently with Windows 10. This book will not only get you started with Windows Server 2019,

but will also help you prepare for the MTA 98-365 exam. With step-by-step instructions and easy-to-understand graphics, you will become well-versed with the roles, features, and functions of Windows Server 2019. Starting with the installation process, upgrades, and basic configuration, you will move on to explore roles and features such as Active Directory, Hyper-V, remote access, storage, and printers. The book then takes you through maintenance and troubleshooting tasks to guide you in efficiently managing Windows Server 2019. In addition, it covers Windows Server 2019 best practices using real-world examples. Complete with questionnaires, and detailed answers at the end of the book, you can test your understanding of the concepts covered in each chapter. By the end of this book, you will be equipped with the knowledge you need to troubleshoot, update, and maintain servers so as to ensure business continuity. What you will learn

Grasp the fundamentals of Windows Server 2019
Understand how to deploy Windows Server 2019
Discover Windows Server post-installation tasks
Add roles to your Windows Server environment
Apply Windows Server 2019 GPOs to your network
Delve into virtualization and Hyper-V concepts
Explore ways to tune, maintain, update, and troubleshoot Windows Server 2019
Study relevant concepts in preparation for the MTA 98-365 exam

Who this book is for If you are a system administrator or an IT professional who wants to deploy and configure Windows Server 2019, this book is for you. You can also use this as a reference guide for the MTA: Windows Server Administration Fundamentals: 98-365 exam.

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microsoft sql server 2019 a beginners guide: Microsoft 365 Power Shell hand book for Administrators and Beginners and 100 Power Shell Interview Questions Prasham Sabadra, : This book is targeted for PowerShell beginners, for Microsoft 365 developers, and handbook for Microsoft 365 administrators. Sharing some useful PowerShell scripts for Microsoft 365 as well frequently required general scripts. Also will help in preparing PowerShell interviews. Sharing around 100 PowerShell interviews questions. You will understand / got-to-know following features as you proceed with book 1. How to effectively use PowerShell while working on Microsoft 365 / Azure 2. How to connect with various services of Microsoft 365 using PowerShell a. SharePoint Online b. Microsoft Teams c. Exchange Online d. Power Platform 3. Some common issues and their solutions

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microsoft sql server 2019 a beginners guide: Pemrograman Database: Membangun Aplikasi dengan Microsoft SQLServer dan MariaDb/mysql Teddy Marcus Zakaria, Setia Budi Rossevine, Artha Nathasya, Dalam era digital yang serba cepat, penguasaan basis data menjadi kunci keberhasilan dalam membangun aplikasi yang andal dan efisien. Buku Pemrograman Database: Membangun Aplikasi dengan Microsoft SQL Server dan MariaDB MySQL hadir sebagai panduan praktis bagi pemula maupun profesional yang ingin memperdalam keahlian mereka dalam pengelolaan database modern. Dilengkapi dengan penjelasan mendalam dan langkah-langkah

aplikatif, buku ini membahas cara merancang, mengelola, dan mengoptimalkan database menggunakan dua platform database populer: Microsoft SQL Server dan MariaDB MySQL. Mulai dari konsep dasar hingga implementasi database dan program berbasis PHP/Laravel, Anda akan diajak mengeksplorasi teknik terbaik dalam pemrograman database yang relevan dengan kebutuhan industri saat ini. Buku ini dirancang untuk membantu Anda: Memahami konsep fundamental dan lanjutan dalam manajemen database. Menguasai sintaks SQL untuk kedua platform secara mendalam. Membuat aplikasi database yang efisien, aman, dan scalable. Mempraktikkan studi kasus nyata yang relevan dengan dunia kerja. Dapatkan pengalaman belajar yang menyeluruh dan aplikatif untuk menjadi ahli dalam membangun aplikasi berbasis database!

microsoft sql server 2019 a beginners guide: Implementing Microsoft SharePoint 2019

Lewin Wanzer, Angel Wood, 2020-12-30 Bring on-premise and cloud collaboration features to life with Microsoft's enterprise content management platform - SharePoint Server Key FeaturesGet up to speed with the latest version of SharePoint and make the most of its featuresSet up and effectively manage your SharePoint Farm in the cloud or on premiseLearn how to align your development tools and cloud infrastructure to support collaborationBook Description Microsoft's latest addition to their product range, SharePoint Server 2019, is a new enterprise content management platform that brings on-premise collaboration features to life. It can be used as an isolated platform or in a hybrid connected configuration providing management and connectivity to Office 365. You can use the SharePoint framework to host sites, information, data, and applications in a robust CMS that centralizes collaborative content for enterprises. SharePoint 2019 enables new integrations and features that will allow you to work seamlessly with new and old Office products such as Microsoft Power Apps and other Microsoft Office applications. Implementing Microsoft SharePoint 2019 will help you understand the challenges, planning, migration steps, installation concepts, and configuration involved in providing this platform for your enterprise. The book will also show you what the platform brings to the table from an on-premise server perspective. If you're new to SharePoint 2019, you'll also be guided through how to get servers up and running so that you and your user community can become productive with this powerful new platform. By the end of this book, you'll be well-versed in Microsoft SharePoint 2019 and have the knowledge you need to apply your skills in the real world. What you will learnUnderstand changes to the platform and how to migrate from other versions of SharePointExplore infrastructure planning and governance relating to collaborative environmentsInstall and configure network components, servers, and desktopsUse SharePoint services and other Microsoft product servers and appsMonitor and troubleshoot SharePoint after it is implementedDiscover the tools that can be used with SharePoint 2019 for BI and reportingDelve into social features and collaborationMaintain, monitor, and support the rollout of the platform in your enterpriseWho this book is for The book is for SharePoint administrators, developers, and architects who have some experience in designing, planning, implementing, and managing SharePoint Farms.

microsoft sql server 2019 a beginners guide: Azure SQL Revealed Bob Ward, 2020-10-30

Access detailed content and examples on Azure SQL, a set of cloud services that allows for SQL Server to be deployed in the cloud. This book teaches the fundamentals of deployment, configuration, security, performance, and availability of Azure SQL from the perspective of these same tasks and capabilities in SQL Server. This distinct approach makes this book an ideal learning platform for readers familiar with SQL Server on-premises who want to migrate their skills toward providing cloud solutions to an enterprise market that is increasingly cloud-focused. If you know SQL Server, you will love this book. You will be able to take your existing knowledge of SQL Server and translate that knowledge into the world of cloud services from the Microsoft Azure platform, and in particular into Azure SQL. This book provides information never seen before about the history and architecture of Azure SQL. Author Bob Ward is a leading expert with access to and support from the Microsoft engineering team that built Azure SQL and related database cloud services. He presents powerful, behind-the-scenes insights into the workings of one of the most popular database cloud services in the industry. What You Will Learn Know the history of Azure SQL Deploy, configure, and

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techniques using Java. In chapter seven, you will create Suspect table in crime database. This table has eleven columns: suspect_id (primary key), suspect_name, birth_date, case_date, report_date, suspect_status, arrest_date, mother_name, address, telephone, and photo. You will also create GUI to display, edit, insert, and delete for this table. In chapter eight, you will create a table with the name Feature_Extraction, which has eight columns: feature_id (primary key), suspect_id (foreign key), feature1, feature2, feature3, feature4, feature5, and feature6. The six fields (except keys) will have VARBINARY(MAX) data type. You will also create GUI to display, edit, insert, and delete for this table. In chapter nine, you will create two tables, Police and Investigator. The Police table has six columns: police_id (primary key), province, city, address, telephone, and photo. The Investigator table has eight columns: investigator_id (primary key), investigator_name, rank, birth_date, gender, address, telephone, and photo. You will also create GUI to display, edit, insert, and delete for both tables. In the last chapter, you will create two tables, Victim and Case_File. The Victim table has nine columns: victim_id (primary key), victim_name, crime_type, birth_date, crime_date, gender, address, telephone, and photo. The Case_File table has seven columns: case_file_id (primary key), suspect_id (foreign key), police_id (foreign key), investigator_id (foreign key), victim_id (foreign key), status, and description. You will create GUI to display, edit, insert, and delete for both tables as well.

microsoft sql server 2019 a beginners guide: *Proceedings of Data Analytics and Management* Ashish Khanna, Zdzislaw Polkowski, Oscar Castillo, 2023-03-24 This book includes original unpublished contributions presented at the International Conference on Data Analytics and Management (ICDAM 2022), held at tThe Karkonosze University of Applied Sciences, Poland, during June 2022. The book covers the topics in data analytics, data management, big data, computational intelligence, and communication networks. The book presents innovative work by leading academics, researchers, and experts from industry which is useful for young researchers and students.

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