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KEY=DATA - SANTOS VEGA

Exam Ref 70-761 Querying Data with Transact-SQL *Microsoft Press* Prepare for Microsoft Exam 70-761-and help demonstrate your real-world mastery of SQL Server 2016 Transact-SQL data management, queries, and database programming. Designed for experienced IT professionals ready to advance their status, Exam Ref focuses on the critical-thinking and decision-making acumen needed for success at the MCSA level. Focus on the expertise measured by these objectives:

- Filter, sort, join, aggregate, and modify data
- Use subqueries, table expressions, grouping sets, and pivoting
- Query temporal and non-relational data, and output XML or JSON
- Create views, user-defined functions, and stored procedures
- Implement error handling, transactions, data types, and nulls

This Microsoft Exam Ref:

- Organizes its coverage by exam objectives
- Features strategic, what-if scenarios to challenge you
- Assumes you have experience working with SQL Server as a database administrator, system engineer, or developer
- Includes downloadable sample database and code for SQL Server 2016 SP1 (or later) and Azure SQL Database

Querying Data with Transact-SQL About the Exam Exam 70-761 focuses on the skills and knowledge necessary to manage and query data and to program databases with Transact-SQL in SQL Server 2016. About Microsoft Certification Passing this exam earns you credit toward a Microsoft Certified Solutions Associate (MCSA) certification that demonstrates your mastery of essential skills for building and implementing on-premises and cloud-based databases across organizations. Exam 70-762 (Developing SQL Databases) is also required for MCSA: SQL 2016 Database Development certification. See full details at: microsoft.com/learning Training Kit (Exam 70-461): Querying Microsoft SQL Server 2012 *Microsoft Press* Ace your preparation for Microsoft® Certification Exam 70-461 with this 2-in-1 Training Kit from Microsoft Press®. Work at your own pace through a series of lessons and practical exercises, and then assess your skills with practice tests on CD—featuring multiple, customizable testing options. Maximize your performance on the exam by learning how to:

- Create database objects
- Work with data
- Modify data
- Troubleshoot and optimize queries

You also get an exam discount voucher—making this book an exceptional value and a great career investment. **T-SQL Querying** *Microsoft Press* T-SQL insiders help you tackle your toughest queries and query-tuning problems Squeeze maximum performance and efficiency from every T-SQL query you write or tune. Four leading experts take an in-depth look at T-SQL's internal architecture and offer advanced practical techniques for optimizing response time and resource usage. Emphasizing a correct understanding of the language and its foundations, the authors present unique solutions they have spent years developing and refining. All code and techniques are fully updated to reflect new T-SQL enhancements in Microsoft SQL Server 2014 and SQL Server 2012. Write faster, more efficient T-SQL code: Move from procedural programming to the language of sets and logic Master an efficient top-down tuning methodology Assess algorithmic complexity to predict performance Compare data aggregation techniques, including new grouping sets Efficiently perform data-analysis calculations Make the most of T-SQL's optimized bulk import tools Avoid date/time pitfalls that lead to buggy, poorly performing code Create optimized BI statistical queries without additional software Use programmable objects to accelerate queries Unlock major performance improvements with In-Memory OLTP Master useful and elegant approaches to manipulating graphs About This Book For experienced T-SQL practitioners Includes coverage updated from *Inside Microsoft SQL Server 2008 T-SQL Querying* and *Inside Microsoft SQL Server 2008 T-SQL Programming* Valuable to developers, DBAs, BI professionals, and data scientists Covers many MCSE 70-464 and MCSA/MCSE 70-461 exam topics

.NET 4 Wrox PDF Bundle Professional ASP.NET 4, Professional C# 4, VB 2010 Programmer's Ref, WPF Programmer's Ref, Professional Visual Studio 2010 *John Wiley & Sons* The books included in this set are: 9780470502204 **Professional ASP.NET 4: in C# and VB:** Written by three highly recognized and regarded ASP.NET experts, this book provides comprehensive coverage on ASP.NET 4 with a unique approach featuring examples in both C# and VB, as is the incomparable coverage of core ASP.NET. After a fast-paced refresher on essentials such as server controls, the book delves into expert coverage of all the latest capabilities of ASP.NET 4. 9780470502259 **Professional C# 4 and .NET 4:** After a quick refresher on C# basics, the author dream team moves on to provide you with details of language and framework features including LINQ, LINQ to SQL, LINQ to XML, WCF, WPF, Workflow, and Generics. Coverage also spans ASP.NET programming with C#, working in Visual Studio 2010 with C#, and more. With this book, you'll quickly get up to date on all the newest capabilities of C# 4. 9780470548653 **Professional Visual Studio 2010:** This book gets you quickly up to speed on what you can expect from Visual Studio 2010. Packed with helpful examples, this comprehensive guide explains examines the features of Visual Studio 2010, which allows you to create and manage programming projects for the Windows platform. It walks you through every facet of the Integrated Development Environment (IDE), from common tasks and functions to its powerful tools 9780470499832 **Visual Basic 2010**

Programmer's Reference: This reference guide provides you with a broad, solid understanding of essential Visual Basic 2010 topics and clearly explains how to use this powerful programming language to perform a variety of tasks. As a tutorial, the book describes the Visual Basic language and covers essential Visual Basic topics. The material presents categorized information regarding specific operations and reveals useful tips, tricks, and tidbits to help you make the most of the new Visual Basic 2010. 9780470477229 **WPF Programmer's Reference: Windows Presentation Foundation with C# 2010 and .NET 4:** Written by a leading expert on Microsoft graphics programming, this richly illustrated book provides an introduction to WPF development and explains fundamental WPF concepts. It is packed with helpful examples and progresses through a range of topics that gradually increase in their complexity. 9780470257029 **Professional SQL Server 2008 Programming:** This expanded best-seller includes new coverage of SQL Server 2008's new datatypes, new indexing structures, manageability features, and advanced time-zone handling. As an added bonus, also includes Professional SQL Server 2005 Programmers for .NET 4 developers still working in a SQL Server 2005 setting. **Microsoft SQL Server 2005 Management and Administration (Adobe Reader)** *Pearson Education* **Microsoft SQL Server 2005 Management and Administration, based on Service Pack 2,** addresses the challenges database administrators regularly encounter on SQL Server 2005 by providing detailed guidance in the areas of management, administration, security, and monitoring. With coverage of the new features and functionality of SQL Server 2005 Service Pack 2, this book is designed to be comprehensive, resulting in something for all database administrators—from simple tips to tactical solutions. **Microsoft SQL Server 2005 Management and Administration** goes far beyond the basic installation and setup information found in many other resources. The book looks at day-to-day administration, best practices, tips, and step-by-step configurations based on real-world examples found in the industry. Unlike others, this book includes not only administration and management details on the Database Engine, but also coverage of other SQL Server 2005 components often overlooked, including Analysis Services, Reporting Services, and more. **Understand how to... Configure and tune the Database Engine, Reporting Services, Analysis Services, Integration Services, and Notification Services Harden a SQL Server implementation Implement SQL Server highavailability alternatives, such as Failover Clustering, Log Shipping, Database Mirroring, and Replication Monitor a SQL Server 2005 infrastructure with Operations Manager 2007, including how to configure the SQL Server Management Pack and install Operations Manager 2007 Automate SQL Server routine maintenance Encrypt SQL Server data and communications, including setting up a Certificate Authority Performance tune and troubleshoot a SQL Server environment Create Integration Services packages and transfer data Real SQL Queries 50 Challenges** *Createspace Independent Publishing Platform* **Sharpen your SQL Skill with Real-World Practice.** Queries improve when challenges are authentic. This book sets your learning on the fast track with realistic problems to solve. Topics span sales, marketing, human resources, purchasing, and production. **Real SQL Queries: 50 Challenges** is perfect for analysts, report writers, or anyone searching for a hands-on approach to learning SQL Server. **Why this Book? Get Started Quickly.** All challenges are based on **AdventureWorks2012**, Microsoft's universally-accessible sample database. **AdventureWorks** is free to download and intuitive to explore. **Solve Real Problems.** Studying concepts is useful, but nothing accelerates skill faster than a hands-on, problem-solution approach. **Learn by Example.** Every challenge includes a fully documented solution. **Lots of Helping Hands.** Not sure how to begin? Each question includes a hint to set you in the right direction. **Something for Everyone.** Difficulty varies from challenge to challenge; it's truly a mixed bag. **Freshen your Technique.** Solutions exhibit a wide range of functions and approaches, so you're sure to find something new. **Your Teaching Companion.** **Ready-to-go material for SQL tutors, trainers, and college professors.** **Preview of Challenges to Solve: Year over Year Comparisons:** An executive requests data concerning fiscal quarter sales by salesperson. She'd like to see comparisons from the fiscal quarters of 2008 to the same fiscal quarters of 2007. **Ten Million Dollar Benchmark:** Ten million dollars of revenue is a common benchmark for Adventure Works. For each fiscal year (2007 and 2008) find the first dates when the cumulative running revenue total hit \$10 million. **Expired Credit Cards:** The Accounting department found instances where expired credit cards were used with sales orders. You are asked examine all credit cards and report the extent of such activity. **The Mentors:** The Vice President of Sales wants the five most successful sales people to mentor the five least successful sales people. Create a list of sales people to match with one another. **Online/Offline:** Create a summary table that shows, by territory, the percentage of orders placed online in comparison to orders not placed online. **The Second Edition includes more material than before. Contrary to the book's title, there are now 55 challenges to solve!** **Smart Business Intelligence Solutions with Microsoft SQL Server 2008** *Microsoft Press* **Get the end-to-end instruction you need to design, develop, and deploy more effective data integration, reporting, and analysis solutions using SQL Server 2008—whether you're new to business intelligence (BI) programming or a seasoned pro. With real-world examples and insights from an expert team, you'll master the concepts, tools, and techniques for building solutions that deliver intelligence—and business value—exactly where users want it. Discover how to: Manage the development life cycle and build a BI team Dig into SQL Server Analysis Services, Integration Services, and Reporting Services Navigate the Business Intelligence Development Studio (BIDS) Write queries that rank, sort, and drill down on sales data Develop extract, transform, and load (ETL) solutions Add a source code control system Help secure packages for deployment via encryption and credentials Use MDX and DMX Query Designers to build reports based on OLAP cubes and data mining models Create and implement custom objects using .NET code View reports in Microsoft Office Excel and Office SharePoint Serverook Inside Microsoft SQL Server 2008 T-SQL Querying Provides information on the architecture of the T-SQL programming language to create scalable code. Programming Microsoft SQL Server 2008** *Microsoft Press* **Extend your programming skills with a comprehensive study of the key features of SQL Server 2008. Delve into the new core capabilities, get practical guidance from expert developers, and put their code samples to work. This is a must-read for Microsoft .NET and SQL Server developers who work with data access—at the database, business logic, or presentation levels. Discover how to: Query complex data with powerful Transact-SQL enhancements Use new, non-relational features: hierarchical tables, native file streaming, and geospatial capabilities**

Exploit XML inside the database to design XML-aware applications Consume and deliver your data using Microsoft LINQ, Entity Framework, and data binding Implement database-level encryption and server auditing Build and maintain data warehouses Use Microsoft Excel to build front ends for OLAP cubes, and MDX to query them Integrate data mining into applications quickly and effectively. Get code samples on the Web. *T-SQL Fundamentals* Microsoft Press Effectively query and modify data using Transact-SQL Master T-SQL fundamentals and write robust code for Microsoft SQL Server and Azure SQL Database. Itzik Ben-Gan explains key T-SQL concepts and helps you apply your knowledge with hands-on exercises. The book first introduces T-SQL's roots and underlying logic. Next, it walks you through core topics such as single-table queries, joins, subqueries, table expressions, and set operators. Then the book covers more-advanced data-query topics such as window functions, pivoting, and grouping sets. The book also explains how to modify data, work with temporal tables, and handle transactions, and provides an overview of programmable objects. Microsoft Data Platform MVP Itzik Ben-Gan shows you how to: Review core SQL concepts and its mathematical roots Create tables and enforce data integrity Perform effective single-table queries by using the SELECT statement Query multiple tables by using joins, subqueries, table expressions, and set operators Use advanced query techniques such as window functions, pivoting, and grouping sets Insert, update, delete, and merge data Use transactions in a concurrent environment Get started with programmable objects—from variables and batches to user-defined functions, stored procedures, triggers, and dynamic SQL Programming Microsoft SQL Server 2012 Pearson Education Your essential guide to key programming features in Microsoft SQL Server 2012 Take your database programming skills to a new level—and build customized applications using the developer tools introduced with SQL Server 2012. This hands-on reference shows you how to design, test, and deploy SQL Server databases through tutorials, practical examples, and code samples. If you're an experienced SQL Server developer, this book is a must-read for learning how to design and build effective SQL Server 2012 applications. Discover how to: Build and deploy databases using the SQL Server Data Tools IDE Query and manipulate complex data with powerful Transact-SQL enhancements Integrate non-relational features, including native file streaming and geospatial data types Consume data with Microsoft ADO.NET, LINQ, and Entity Framework Deliver data using Windows Communication Foundation (WCF) Data Services and WCF RIA Services Move your database to the cloud with Windows Azure SQL Database Develop Windows Phone cloud applications using SQL Data Sync Use SQL Server BI components, including xVelocity in-memory technologies Professional Microsoft SQL Server 2016 Reporting Services and Mobile Reports John Wiley & Sons A Detailed Look at Data Processing Extensions Fundamentals of Relational Database Management Systems Springer This book provides comprehensive coverage of fundamentals of database management system. It contains a detailed description on Relational Database Management System Concepts. There are a variety of solved examples and review questions with solutions. This book is for those who require a better understanding of relational data modeling, its purpose, its nature, and the standards used in creating relational data model. Exam Ref 70-768 Developing SQL Data Models Microsoft Press Prepare for Microsoft Exam 70-768—and help demonstrate your real-world mastery of Business Intelligence (BI) solutions development with SQL Server 2016 Analysis Services (SSAS), including modeling and queries. Designed for experienced IT professionals ready to advance their status, Exam Ref focuses on the critical thinking and decision-making acumen needed for success at the MCSA level. Focus on the expertise measured by these objectives: • Design a multidimensional BI semantic model • Design a tabular BI semantic model • Develop queries using Multidimensional Expressions (MDX) and Data Analysis Expressions (DAX) • Configure and maintain SSAS This Microsoft Exam Ref: • Organizes its coverage by exam objectives • Features strategic, what-if scenarios to challenge you • Assumes you are a database or BI professional with experience creating models, writing MDX or DAX queries, and using SSAS Pro SQL Server 2019 Administration A Guide for the Modern DBA Apress Use this comprehensive guide for the SQL Server DBA, covering all that practicing database administrators need to know to get their daily work done. Updated for SQL Server 2019, this edition includes coverage of new features such as Memory-optimized TempDB Metadata, and Always Encrypted with Secure Enclaves. Other new content includes coverage of Query Store, resumable index operations, installation on Linux, and containerized SQL. Pro SQL Server 2019 Administration takes DBAs on a journey that begins with planning their SQL Server deployment and runs through installing and configuring the instance, administering and optimizing database objects, and ensuring that data is secure and highly available. Finally, readers will learn how to perform advanced maintenance and tuning techniques. This book teaches you to make the most of new SQL Server 2019 functionality, including Data Discovery and Classification. The book promotes best-practice installation, shows how to configure for scalability and high workloads, and demonstrates the gamut of database-level maintenance tasks such as index maintenance, database consistency checks, and table optimizations. What You Will Learn Install and configure SQL Server on Windows through the GUI and with PowerShell Install and configure SQL Server on Linux and in Containers Optimize tables through in-memory OLTP, table partitioning, and the creation of indexes Secure and encrypt data to protect against embarrassing data breaches Ensure 24x7x365 access through high-availability and disaster recovery features Back up your data to ensure against loss, and recover data when needed Perform routine maintenance tasks such as database consistency checks Troubleshoot and solve performance problems in SQL queries and in the database engine Who This Book Is For SQL Server DBAs who manage on-premise installations of SQL Server. This book is also useful for DBAs who wish to learn advanced features such as Query Store, Extended Events, Distributed Replay, and Policy-Based Management, or those who need to install SQL Server in a variety of environments. Exam Ref 70-767 Implementing a SQL Data Warehouse Microsoft Press Prepare for Microsoft Exam 70-767—and help demonstrate your real-world mastery of skills for managing data warehouses. This exam is intended for Extract, Transform, Load (ETL) data warehouse developers who create business intelligence (BI) solutions. Their responsibilities include data cleansing as well as ETL and data warehouse implementation. The reader should have experience installing and implementing a Master Data Services (MDS) model, using MDS tools, and creating a Master Data Manager database and web application. The reader should understand how to design and implement ETL control

flow elements and work with a SQL Service Integration Services package. Focus on the expertise measured by these objectives:

- Design, and implement, and maintain a data warehouse
- Extract, transform, and load data
- Build data quality solutions

This Microsoft Exam Ref:

- Organizes its coverage by exam objectives
- Features strategic, what-if scenarios to challenge you
- Assumes you have working knowledge of relational database technology and incremental database extraction, as well as experience with designing ETL control flows, using and debugging SSIS packages, accessing and importing or exporting data from multiple sources, and managing a SQL data warehouse.

Implementing a SQL Data Warehouse About the Exam Exam 70-767 focuses on skills and knowledge required for working with relational database technology. About Microsoft Certification Passing this exam earns you credit toward a Microsoft Certified Professional (MCP) or Microsoft Certified Solutions Associate (MCSA) certification that demonstrates your mastery of data warehouse management Passing this exam as well as Exam 70-768 (Developing SQL Data Models) earns you credit toward a Microsoft Certified Solutions Associate (MCSA) SQL 2016 Business Intelligence (BI) Development certification. See full details at: microsoft.com/learning SQL Server 2016 Reporting Services Cookbook *Packt Publishing Ltd* Create interactive cross-platform reports and dashboards using SQL Server 2016 Reporting Services About This Book Get up to speed with the newly-introduced enhancements and the more advanced query and reporting features Easily access your important data by creating visually appealing dashboards in the Power BI practical recipe Create cross-browser and cross-platform reports using SQL Server 2016 Reporting Services Who This Book Is For This book is for software professionals who develop and implement reporting solutions using Microsoft SQL Server. It is especially relevant for professionals who are software engineers, software architects, DW/BI engineers, and DW/BI architects who perform simple to complex report authoring implementations. This book is also suitable for those who develop software solutions that integrate reporting solutions and are keen to learn about Microsoft SQL Server 2016's features and capabilities. What You Will Learn Key capabilities, architecture, and components of Reporting Services New features that have been added to Reporting Services Design the architecture for reporting solutions Design the architecture for BI solutions Implement reporting solutions using Reporting Services Improve the performance, availability, and scalability of the reporting solution Enhance reporting solutions with custom programming and improved security In Detail Microsoft SQL Server 2016 Reporting Services comes with many new features. It offers different types of reporting such as Production, Ad-hoc, Dashboard, Mash-up, and Analytical. SQL Server 2016 also has a surfeit of new features including Mobile Reporting, and Power BI integration. This book contains recipes that explore the new and advanced features added to SQL Server 2016. The first few chapters cover recipes on configuring components and how to explore these new features. You'll learn to build your own reporting solution with data tools and report builder, along with learning techniques to create visually appealing reports. This book also has recipes for enhanced mobile reporting solutions, accessing these solutions effectively, and delivering interactive business intelligence solutions. Towards the end of the book, you'll get to grips with running reporting services in SharePoint integrated mode and be able to administer, monitor, and secure your reporting solution. This book covers about the new offerings of Microsoft SQL Server 2016 Reporting Services in comprehensive detail and uses examples of real-world problem-solving business scenarios. Style and approach This comprehensive cookbook follows a problem-solution approach to help you overcome any obstacle when creating interactive, visually-appealing reports using SQL Server 2016 Reporting Services. Each recipe focuses on a specific task and is written in a clear, solution-focused style. Exam Ref 70-764 Administering a SQL Database Infrastructure *Microsoft Press* Prepare for Microsoft Exam 70-764—and help demonstrate your real-world mastery of skills for database administration. This exam is intended for database administrators charged with installation, maintenance, and configuration tasks. Their responsibilities also include setting up database systems, making sure those systems operate efficiently, and regularly storing, backing up, and securing data from unauthorized access. Focus on the expertise measured by these objectives:

- Configure data access and auditing
- Manage backup and restore of databases
- Manage and monitor SQL Server instances
- Manage high availability and disaster recovery

This Microsoft Exam Ref:

- Organizes its coverage by exam objectives
- Features strategic, what-if scenarios to challenge you
- Assumes you have working knowledge of database installation, configuration, and maintenance tasks. You should also have experience with setting up database systems, ensuring those systems operate efficiently, regularly storing and backing up data, and securing data from unauthorized access.

About the Exam Exam 70-764 focuses on skills and knowledge required for database administration. About Microsoft Certification Passing both Exam 70-764 and Exam 70-765 (Provisioning SQL Databases) earns you credit toward an MCSA: SQL 2016 Database Administration certification. See full details at: microsoft.com/learning Delivering Business Intelligence with Microsoft SQL Server 2008 *McGraw Hill Professional* Maximize the Business Intelligence Tools in Microsoft SQL Server 2008 Manage, analyze, and distribute enterprise data with help from this expert resource. Delivering Business Intelligence with Microsoft SQL Server 2008 covers the entire BI lifecycle and explains how to build robust data integration, reporting, and analysis solutions. Real-world examples illustrate all of the powerful BI capabilities of SQL Server 2008. This is your one-stop guide for transforming disparate data into actionable insight for users throughout your organization. Understand the goals and benefits of business intelligence Design and create relational data marts and OLAP cubes Manage Analysis Services databases using BI Development Studio Cleanse data and populate data marts with SQL Server Integration Services Take advantage of the flexibility of the Unified Dimensional Model Manipulate and analyze data using MDX scripts and queries Use data mining to identify data patterns, correlations, and clustering Develop and distribute interactive reports with SQL Server 2008 Reporting Services Integrate business intelligence into enterprise applications using ADOMD.NET and the Report Viewer Control Microsoft SQL Server 2016: A Beginner's Guide, Sixth Edition *McGraw Hill Professional* Up-to-date Microsoft SQL Server 2016 skills made easy! Get up and running on Microsoft SQL Server 2016 in no time with help from this thoroughly revised, practical resource. The book offers thorough coverage of SQL management and development and features full details on the newest business intelligence, reporting, and security features. Filled with new real-world examples and

hands-on exercises, *Microsoft SQL Server 2016: A Beginner's Guide, Sixth Edition*, starts by explaining fundamental relational database system concepts. From there, you will learn how to write Transact-SQL statements, execute simple and complex database queries, handle system administration and security, and use the powerful analysis and BI tools. XML, spatial data, and full-text search are also covered in this step-by-step tutorial. · Revised from the ground up to cover the latest version of SQL Server · Ideal both as a self-study guide and a classroom textbook · Written by a prominent professor and best-selling author *Microsoft SQL Server 2014 Unleashed* *Sams Publishing* The industry's most complete, useful, and up-to-date guide to SQL Server 2014. You'll find start-to-finish coverage of SQL Server's core database server and management capabilities: all the real-world information, tips, guidelines, and examples you'll need to install, monitor, maintain, and optimize the most complex database environments. The provided examples and sample code provide plenty of hands-on opportunities to learn more about SQL Server and create your own viable solutions. Four leading SQL Server experts present deep practical insights for administering SQL Server, analyzing and optimizing queries, implementing data warehouses, ensuring high availability, tuning performance, and much more. You will benefit from their behind-the-scenes look into SQL Server, showing what goes on behind the various wizards and GUI-based tools. You'll learn how to use the underlying SQL commands to fully unlock the power and capabilities of SQL Server. Writing for all intermediate-to-advanced-level SQL Server professionals, the authors draw on immense production experience with SQL Server. Throughout, they focus on successfully applying SQL Server 2014's most powerful capabilities and its newest tools and features. Detailed information on how to... Understand SQL Server 2014's new features and each edition's capabilities and licensing Install, upgrade to, and configure SQL Server 2014 for better performance and easier management Streamline and automate key administration tasks with Smart Admin Leverage powerful new backup/restore options: flexible backup to URL, Managed Backup to Windows Azure, and encrypted backups Strengthen security with new features for enforcing "least privilege" Improve performance with updateable columnstore indexes, Delayed Durability, and other enhancements Execute queries and business logic more efficiently with memory-optimized tables, buffer pool extension, and natively-compiled stored procedures Control workloads and Disk I/O with the Resource Governor Deploy AlwaysOn Availability Groups and Failover Cluster Instances to achieve enterprise-class availability and disaster recovery Apply new Business Intelligence improvements in Master Data Services, data quality, and Parallel Data Warehouse Web Database Applications with PHP and MySQL "O'Reilly Media, Inc." Combines language tutorials with application design advice to cover the PHP server-side scripting language and the MySQL database engine. SQL Server 2019 Administration Inside Out *Microsoft Press* Conquer SQL Server 2019 administration-from the inside out Dive into SQL Server 2019 administration-and really put your SQL Server DBA expertise to work. This supremely organized reference packs hundreds of timesaving solutions, tips, and workarounds-all you need to plan, implement, manage, and secure SQL Server 2019 in any production environment: on-premises, cloud, or hybrid. Six experts thoroughly tour DBA capabilities available in SQL Server 2019 Database Engine, SQL Server Data Tools, SQL Server Management Studio, PowerShell, and Azure Portal. You'll find extensive new coverage of Azure SQL, big data clusters, PolyBase, data protection, automation, and more. Discover how experts tackle today's essential tasks-and challenge yourself to new levels of mastery. Explore SQL Server 2019's toolset, including the improved SQL Server Management Studio, Azure Data Studio, and Configuration Manager Design, implement, manage, and govern on-premises, hybrid, or Azure database infrastructures Install and configure SQL Server on Windows and Linux Master modern maintenance and monitoring with extended events, Resource Governor, and the SQL Assessment API Automate tasks with maintenance plans, PowerShell, Policy-Based Management, and more Plan and manage data recovery, including hybrid backup/restore, Azure SQL Database recovery, and geo-replication Use availability groups for high availability and disaster recovery Protect data with Transparent Data Encryption, Always Encrypted, new Certificate Management capabilities, and other advances Optimize databases with SQL Server 2019's advanced performance and indexing features Provision and operate Azure SQL Database and its managed instances Move SQL Server workloads to Azure: planning, testing, migration, and post-migration Database Administration The Complete Guide to Practices and Procedures *Addison-Wesley Professional* A thorough reference on database administration outlines a variety of DBA roles and responsibilities and discusses such topics as data modeling and normalization, database/application design, change management, database security and data integrity, performance issues, disaster planning, and other essentials. Original. (Advanced) Introducing Data Science Big data, machine learning, and more, using Python tools *Simon and Schuster* Summary Introducing Data Science teaches you how to accomplish the fundamental tasks that occupy data scientists. Using the Python language and common Python libraries, you'll experience firsthand the challenges of dealing with data at scale and gain a solid foundation in data science. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the Technology Many companies need developers with data science skills to work on projects ranging from social media marketing to machine learning. Discovering what you need to learn to begin a career as a data scientist can seem bewildering. This book is designed to help you get started. About the Book Introducing Data Science Introducing Data Science explains vital data science concepts and teaches you how to accomplish the fundamental tasks that occupy data scientists. You'll explore data visualization, graph databases, the use of NoSQL, and the data science process. You'll use the Python language and common Python libraries as you experience firsthand the challenges of dealing with data at scale. Discover how Python allows you to gain insights from data sets so big that they need to be stored on multiple machines, or from data moving so quickly that no single machine can handle it. This book gives you hands-on experience with the most popular Python data science libraries, Scikit-learn and StatsModels. After reading this book, you'll have the solid foundation you need to start a career in data science. What's Inside Handling large data Introduction to machine learning Using Python to work with data Writing data science algorithms About the Reader This book assumes you're comfortable reading code in Python or a similar language, such as C, Ruby, or JavaScript. No prior experience with data science is required. About the Authors Davy Cielen, Arno D. B. Meysman,

and Mohamed Ali are the founders and managing partners of Optimately and Maiton, where they focus on developing data science projects and solutions in various sectors. Table of Contents Data science in a big data world The data science process Machine learning Handling large data on a single computer First steps in big data Join the NoSQL movement The rise of graph databases Text mining and text analytics Data visualization to the end user MCSA SQL Server 2016 Database Development Exam Ref 2-Pack Exam Refs 70-761 And 70-762 *Microsoft Press* Direct from Microsoft, this bundle contains the following two study guides at a \$15 discount: Exam Ref 70-761 Querying Data with Transact-SQL, 9781509304332, offers professional-level preparation that helps candidates maximize their exam performance and sharpen their skills on the job. It focuses on the specific areas of expertise modern database professionals need to succeed with T-SQL database queries. Exam Ref 70-762 Developing SQL Databases, 9781509304912, offers professional-level preparation that helps candidates maximize their exam performance and sharpen their skills on the job. It focuses on the specific areas of expertise modern database professionals need to succeed with SQL database development. These are the two exams necessary for the MCSA certification in SQL Server 2016 Database Development. Beginning PowerApps The Non-Developers Guide to Building Business Mobile Applications *Apress* Build mobile apps that specifically target your company's unique business needs, with the same ease of writing a simple spreadsheet! With this book, you will build business apps designed to work with your company's systems and databases, without having to enlist the expertise of costly, professionally trained software developers. In Beginning PowerApps, author and business applications expert Tim Leung guides you step-by-step through the process of building your own mobile app. He assumes no technical background, although if you have worked with Excel, you are one step closer. He guides you through scenarios, such as what to do if you have existing databases with complex data structures and how to write screens that can connect to those data. You will come away with an understanding of how to set up screen navigation, manipulate data from within apps, and write solutions to perform specific tasks. What You'll Learn Connect with data Write formulas Visualize your data through charts Work with global positioning systems (GPS) Build flows Import and export data Manage offline scenarios Develop custom application programming interfaces (API) Who This Book Is For Beginners and non-developers, and assumes no prior knowledge of PowerApps Practical Database Programming with Java *John Wiley & Sons* Covers fundamental and advanced Java database programming techniques for beginning and experienced readers This book covers the practical considerations and applications in database programming using Java NetBeans IDE, JavaServer Pages, JavaServer Faces, and Java Beans, and comes complete with authentic examples and detailed explanations. Two data-action methods are developed and presented in this important resource. With Java Persistence API and plug-in Tools, readers are directed step by step through the entire database programming development process and will be able to design and build professional data-action projects with a few lines of code in mere minutes. The second method, runtime object, allows readers to design and build more sophisticated and practical Java database applications. Advanced and updated Java database programming techniques such as Java Enterprise Edition development kits, Enterprise Java Beans, JavaServer Pages, JavaServer Faces, Java RowSet Object, and JavaUpdatable ResultSet are also discussed and implemented with numerous example projects. Ideal for classroom and professional training use, this text also features: A detailed introduction to NetBeans Integrated Development Environment Java web-based database programming techniques (web applications and web services) More than thirty detailed, real-life sample projects analyzed via line-by-line illustrations Problems and solutions for each chapter A wealth of supplemental material available for download from the book's ftp site, including PowerPoint slides, solution manual, JSP pages, sample image files, and sample databases Coverage of two popular database systems: SQL Server 2008 and Oracle This book provides undergraduate and graduate students as well as database programmers and software engineers with the necessary tools to handle the database programming issues in the Java NetBeans environment. To obtain instructor materials please send an email to: pressbooks@ieee.org The Big R-Book From Data Science to Learning Machines and Big Data *John Wiley & Sons* Introduces professionals and scientists to statistics and machine learning using the programming language R Written by and for practitioners, this book provides an overall introduction to R, focusing on tools and methods commonly used in data science, and placing emphasis on practice and business use. It covers a wide range of topics in a single volume, including big data, databases, statistical machine learning, data wrangling, data visualization, and the reporting of results. The topics covered are all important for someone with a science/math background that is looking to quickly learn several practical technologies to enter or transition to the growing field of data science. The Big R-Book for Professionals: From Data Science to Learning Machines and Reporting with R includes nine parts, starting with an introduction to the subject and followed by an overview of R and elements of statistics. The third part revolves around data, while the fourth focuses on data wrangling. Part 5 teaches readers about exploring data. In Part 6 we learn to build models, Part 7 introduces the reader to the reality in companies, Part 8 covers reports and interactive applications and finally Part 9 introduces the reader to big data and performance computing. It also includes some helpful appendices. Provides a practical guide for non-experts with a focus on business users Contains a unique combination of topics including an introduction to R, machine learning, mathematical models, data wrangling, and reporting Uses a practical tone and integrates multiple topics in a coherent framework Demystifies the hype around machine learning and AI by enabling readers to understand the provided models and program them in R Shows readers how to visualize results in static and interactive reports Supplementary materials includes PDF slides based on the book's content, as well as all the extracted R-code and is available to everyone on a Wiley Book Companion Site The Big R-Book is an excellent guide for science technology, engineering, or mathematics students who wish to make a successful transition from the academic world to the professional. It will also appeal to all young data scientists, quantitative analysts, and analytics professionals, as well as those who make mathematical models. Microsoft Dynamics 365 Extensions Cookbook *Packt Publishing Ltd* More than 80 recipes to help you leverage the various extensibility features available for Microsoft Dynamics and solve problems easily About This Book Customize,

configure, and extend the vanilla features of Dynamics 365 to deliver bespoke CRM solutions fit for any organization
Implement business logic using point-and-click configuration, plugins, and client-side scripts with MS Dynamics 365
Built a DevOps pipeline as well as Integrate Dynamics 365 with Azure and other platforms Who This Book Is For This
book is for developers, administrators, consultants, and power users who want to learn about best practices when
extending Dynamics 365 for enterprises. You are expected to have a basic understand of the Dynamics CRM/365
platform. What You Will Learn Customize, configure, and extend Microsoft Dynamics 365 Create business process
automation Develop client-side extensions to add features to the Dynamics 365 user interface Set up a security model
to securely manage data with Dynamics 365 Develop and deploy clean code plugins to implement a wide range of
custom behaviors Use third-party applications, tools, and patterns to integrate Dynamics 365 with other platforms
Integrate with Azure, Java, SSIS, PowerBI, and Octopus Deploy Build an end-to-end DevOps pipeline for Dynamics 365
In Detail Microsoft Dynamics 365 is a powerful tool. It has many unique features that empower organisations to bridge
common business challenges and technology pitfalls that would usually hinder the adoption of a CRM solution. This
book sets out to enable you to harness the power of Dynamics 365 and cater to your unique circumstances. We start
this book with a no-code configuration chapter and explain the schema, fields, and forms modeling techniques. We
then move on to server-side and client-side custom code extensions. Next, you will see how best to integrate Dynamics
365 in a DevOps pipeline to package and deploy your extensions to the various SDLC environments. This book also
covers modern libraries and integration patterns that can be used with Dynamics 365 (Angular, 3 tiers, and many
others). Finally, we end by highlighting some of the powerful extensions available. Throughout we explain a range of
design patterns and techniques that can be used to enhance your code quality; the aim is that you will learn to write
enterprise-scale quality code. Style and approach This book takes a recipe-based approach, delivering practical
examples and use cases so that you can identify the best possible approach to extend your Dynamics 365 deployment
and tackle your specific business problems. Implementing SAP HANA *SAP PRESS* Implement SAP HANA as a standalone
data warehouse Integrate SAP Data Services and the SAP BusinessObjects BI tools with SAP HANA Benefit from step-
by-step instructions, technical details, and downloadable data for every step In the new SAP HANA era, processes that
once took weeks now take days, hours, or even minutes. Truly take advantage of this bold jump forward with this
resource for a standalone SAP HANA implementation. Master data loading with SAP Data Services, data modeling in
SAP HANA, and then SAP HANA integration with SAP BusinessObjects BI for reporting and analytics. From general
concepts to specific implementation steps and a real-world case study, this book offers the practical details about
implementing SAP HANA that will shift your system into high gear. Data Storage See how SAP HANA has fundamentally
changed data storage with column store tables that improve compression and, consequently, performance. SAP Data
Services Avoid fast trash. Preprovision your data using source system analysis, profiling tools, and mapping to load
high-quality data into SAP HANA. SAP HANA Studio Dive into SAP HANA-specific data modelling components like the
attribute, analytic, and calculation views that produce quality multidimensional models. Connecting SAP HANA with BI
Deliver sophisticated data visualization and analysis by integrating SAP BusinessObjects Design Studio, SAP Lumira,
SAP Predictive Analysis, and more with SAP HANA. Hands-On Case Study Take SAP HANA for a test drive. Download the
data for the fictitious AdventureWorks Cycle Company s implementation and follow along every step of the way.
Highlights Source system analysis SAP Data Services Analytic, attribute, and calculation views SAP HANA Studio
Columnar database technology Denormalization Information Design Tool SAP Information Steward SAP Predictive
Analysis SAP BusinessObjects BI toolset SAP Lumira Database Design and Implementation Second Edition *Springer
Nature* This textbook examines database systems from the viewpoint of a software developer. This perspective makes it
possible to investigate why database systems are the way they are. It is of course important to be able to write
queries, but it is equally important to know how they are processed. We e.g. don't want to just use JDBC; we also want
to know why the API contains the classes and methods that it does. We need a sense of how hard is it to write a disk
cache or logging facility. And what exactly is a database driver, anyway? The first two chapters provide a brief
overview of database systems and their use. Chapter 1 discusses the purpose and features of a database system and
introduces the Derby and SimpleDB systems. Chapter 2 explains how to write a database application using Java. It
presents the basics of JDBC, which is the fundamental API for Java programs that interact with a database. In turn,
Chapters 3-11 examine the internals of a typical database engine. Each chapter covers a different database
component, starting with the lowest level of abstraction (the disk and file manager) and ending with the highest (the
JDBC client interface); further, the respective chapter explains the main issues concerning the component, and
considers possible design decisions. As a result, the reader can see exactly what services each component provides
and how it interacts with the other components in the system. By the end of this part, s/he will have witnessed the
gradual development of a simple but completely functional system. The remaining four chapters then focus on efficient
query processing, and focus on the sophisticated techniques and algorithms that can replace the simple design choices
described earlier. Topics include indexing, sorting, intelligent buffer usage, and query optimization. This text is
intended for upper-level undergraduate or beginning graduate courses in Computer Science. It assumes that the
reader is comfortable with basic Java programming; advanced Java concepts (such as RMI and JDBC) are fully explained
in the text. The respective chapters are complemented by "end-of-chapter readings" that discuss interesting ideas and
research directions that went unmentioned in the text, and provide references to relevant web pages, research
articles, reference manuals, and books. Conceptual and programming exercises are also included at the end of each
chapter. Students can apply their conceptual knowledge by examining the SimpleDB (a simple but fully functional
database system created by the author and provided online) code and modifying it. SQL Queries for Mere Mortals A
Hands-On Guide to Data Manipulation in SQL *Addison-Wesley Professional* The #1 Easy, Common-Sense Guide to SQL
Queries—Updated for Today's Databases, Standards, and Challenges SQL Queries for Mere Mortals ® has earned
worldwide praise as the clearest, simplest tutorial on writing effective SQL queries. The authors have updated this

hands-on classic to reflect new SQL standards and database applications and teach valuable new techniques. Step by step, John L. Viescas and Michael J. Hernandez guide you through creating reliable queries for virtually any modern SQL-based database. They demystify all aspects of SQL query writing, from simple data selection and filtering to joining multiple tables and modifying sets of data. Three brand-new chapters teach you how to solve a wide range of challenging SQL problems. You'll learn how to write queries that apply multiple complex conditions on one table, perform sophisticated logical evaluations, and think "outside the box" using unlinked tables. Coverage includes -- Getting started: understanding what relational databases are, and ensuring that your database structures are sound -- SQL basics: using SELECT statements, creating expressions, sorting information with ORDER BY, and filtering data using WHERE -- Summarizing and grouping data with GROUP BY and HAVING clauses -- Drawing data from multiple tables: using INNER JOIN, OUTER JOIN, and UNION operators, and working with subqueries -- Modifying data sets with UPDATE, INSERT, and DELETE statements Advanced queries: complex NOT and AND, conditions, if-then-else using CASE, unlinked tables, driver tables, and more Practice all you want with downloadable sample databases for today's versions of Microsoft Office Access, Microsoft SQL Server, and the open source MySQL database. Whether you're a DBA, developer, user, or student, there's no better way to master SQL. informit.com/aw forMereMortals.com

Professional Microsoft SQL Server 2012 Analysis Services with MDX and DAX *John Wiley & Sons* Understand Microsoft's dramatically updated new release of its premier toolset for business intelligence The first major update to Microsoft's state-of-the-art, complex toolset for business intelligence (BI) in years is now available and what better way to master it than with this detailed book from key members of the product's development team? If you're a database or data warehouse developer, this is the expert resource you need to build full-scale, multi-dimensional, database applications using Microsoft's new SQL Server 2012 Analysis Services and related tools. Discover how to solve real-world BI problems by leveraging a slew of powerful new Analysis Services features and capabilities. These include the new DAX language, which is a more user-friendly version of MDX; PowerPivot, a new tool for performing simplified analysis of data; BISM, Microsoft's new Business Intelligence Semantic Model; and much more. Serves as an authoritative guide to Microsoft's new SQL Server 2012 Analysis Services BI product and is written by key members of the Microsoft Analysis Services product development team Covers SQL Server 2012 Analysis Services, a major new release with a host of powerful new features and capabilities Topics include using the new DAX language, a simplified, more user-friendly version of MDX; PowerPivot, a new tool for performing simplified analysis of data; BISM, Microsoft's new Business Intelligence Semantic Model; and a new, yet-to-be-named BI reporting tool Explores real-world scenarios to help developers build comprehensive solutions Get thoroughly up to speed on this powerful new BI toolset with the timely and authoritative Professional Microsoft SQL Server 2012 Analysis Services with MDX. Professional Microsoft SQL Server 2014 Administration *John Wiley & Sons* Learn to take advantage of the opportunities offered by SQL Server 2014 Microsoft's SQL Server 2014 update means big changes for database administrators, and you need to get up to speed quickly because your methods, workflow, and favorite techniques will be different from here on out. The update's enhanced support of large-scale enterprise databases and significant price advantage mean that SQL Server 2014 will become even more widely adopted across the industry. The update includes new backup and recovery tools, new AlwaysOn features, and enhanced cloud capabilities. In-memory OLTP, Buffer Pool Extensions for SSDs, and a new Cardinality Estimator can improve functionality and smooth out the workflow, but only if you understand their full capabilities. Professional Microsoft SQL Server 2014 is your comprehensive guide to working with the new environment. Authors Adam Jorgensen, Bradley Ball, Ross LoForte, Steven Wort, and Brian Knight are the dream team of the SQL Server community, and they put their expertise to work guiding you through the changes. Improve oversight with better management and monitoring Protect your work with enhanced security features Upgrade performance tuning, scaling, replication, and clustering Learn new options for backup and recovery Professional Microsoft SQL Server 2014 includes a companion website with sample code and efficient automation utilities, plus a host of tips, tricks, and workarounds that will make your job as a DBA or database architect much easier. Stop getting frustrated with administrative issues and start taking control. Professional Microsoft SQL Server 2014 is your roadmap to mastering the update and creating solutions that work. Database Systems A Practical Approach to Design, Implementation, and Management *Pearson Education* This book places a strong emphasis on good design practice, allowing readers to master design methodology in an accessible, step-by-step fashion. In this book, database design methodology is explicitly divided into three phases: conceptual, logical, and physical. Each phase is described in a separate chapter with an example of the methodology working in practice. Extensive treatment of the Web as an emerging platform for database applications is covered alongside many code samples for accessing databases from the Web including JDBC, SQLJ, ASP, ISP, and Oracle's PSP. A thorough update of later chapters covering object-oriented databases, Web databases, XML, data warehousing, data mining is included in this new edition. A clear introduction to design implementation and management issues, as well as an extensive treatment of database languages and standards, make this book an indispensable, complete reference for database professionals. Data Lake for Enterprises *Packt Publishing Ltd* A practical guide to implementing your enterprise data lake using Lambda Architecture as the base About This Book Build a full-fledged data lake for your organization with popular big data technologies using the Lambda architecture as the base Delve into the big data technologies required to meet modern day business strategies A highly practical guide to implementing enterprise data lakes with lots of examples and real-world use-cases Who This Book Is For Java developers and architects who would like to implement a data lake for their enterprise will find this book useful. If you want to get hands-on experience with the Lambda Architecture and big data technologies by implementing a practical solution using these technologies, this book will also help you. What You Will Learn Build an enterprise-level data lake using the relevant big data technologies Understand the core of the Lambda architecture and how to apply it in an enterprise Learn the technical details around Sqoop and its functionalities Integrate Kafka with Hadoop components to acquire enterprise data Use flume with streaming technologies for stream-based

processing Understand stream- based processing with reference to Apache Spark Streaming Incorporate Hadoop components and know the advantages they provide for enterprise data lakes Build fast, streaming, and high-performance applications using Elasticsearch Make your data ingestion process consistent across various data formats with configurability Process your data to derive intelligence using machine learning algorithms In Detail The term "Data Lake" has recently emerged as a prominent term in the big data industry. Data scientists can make use of it in deriving meaningful insights that can be used by businesses to redefine or transform the way they operate. Lambda architecture is also emerging as one of the very eminent patterns in the big data landscape, as it not only helps to derive useful information from historical data but also correlates real-time data to enable business to take critical decisions. This book tries to bring these two important aspects – data lake and lambda architecture—together. This book is divided into three main sections. The first introduces you to the concept of data lakes, the importance of data lakes in enterprises, and getting you up-to-speed with the Lambda architecture. The second section delves into the principal components of building a data lake using the Lambda architecture. It introduces you to popular big data technologies such as Apache Hadoop, Spark, Sqoop, Flume, and Elasticsearch. The third section is a highly practical demonstration of putting it all together, and shows you how an enterprise data lake can be implemented, along with several real-world use-cases. It also shows you how other peripheral components can be added to the lake to make it more efficient. By the end of this book, you will be able to choose the right big data technologies using the lambda architectural patterns to build your enterprise data lake. Style and approach The book takes a pragmatic approach, showing ways to leverage big data technologies and lambda architecture to build an enterprise-level data lake. PHP and MySQL Web Development *Sams Publishing* Explains how to access and create MySQL databases through PHP scripting, including authentication, network connectivity, session management, and content customization. PostgreSQL Development Essentials *Packt Publishing Ltd* Develop programmatic functions to create powerful database applications About This Book Write complex SQL queries and design a robust database design that fits your application's need Improve database performance by indexing, partitioning tables, and query optimizing A comprehensive guide covering the advanced PostgreSQL concepts without any hassle Who This Book Is For If you are a PostgreSQL developer with a basic knowledge of PostgreSQL development and you're want deeper knowledge to develop applications, then this book is for you. As this book does not cover basic installation and configurations, you should have PostgreSQL installed on your machine as a prerequisite. What You Will Learn Write more complex queries with advanced SQL queries Design a database that works with the application exactly the way you want Make the database work in extreme conditions by tuning, optimizing, partitioning, and indexing Develop applications in other programming languages such as Java and PHP Use extensions to get extra benefits in terms of functionality and performance Build an application that does not get locked by data manipulation Explore in-built db functions and data type conversions In Detail PostgreSQL is the most advanced open source database in the world. It is easy to install, configure, and maintain by following the documentation; however, it's difficult to develop applications using programming languages and design databases accordingly. This book is what you need to get the most out of PostgreSQL You will begin with advanced SQL topics such as views, materialized views, and cursors, and learn about performing data type conversions. You will then perform trigger operations and use trigger functions in PostgreSQL. Next we walk through data modeling, normalization concepts, and the effect of transactions and locking on the database. The next half of the book covers the types of indexes, constrains, and the concepts of table partitioning, as well as the different mechanisms and approaches available to write efficient queries or code. Later, we explore PostgreSQL Extensions and Large Object Support in PostgreSQL. Finally, you will perform database operations in PostgreSQL using PHP and Java. By the end of this book, you will have mastered all the aspects of PostgreSQL development. You will be able to build efficient enterprise-grade applications with PostgreSQL by making use of these concepts Style and approach Every chapter follows a step by step approach that first explains the concept , then shows you how to execute it practically so that you can implement them in your application. Data Pipelines with Apache Airflow *Simon and Schuster* "An Airflow bible. Useful for all kinds of users, from novice to expert." - Rambabu Posa, Sai Aashika Consultancy Data Pipelines with Apache Airflow teaches you how to build and maintain effective data pipelines. A successful pipeline moves data efficiently, minimizing pauses and blockages between tasks, keeping every process along the way operational. Apache Airflow provides a single customizable environment for building and managing data pipelines, eliminating the need for a hodgepodge collection of tools, snowflake code, and homegrown processes. Using real-world scenarios and examples, Data Pipelines with Apache Airflow teaches you how to simplify and automate data pipelines, reduce operational overhead, and smoothly integrate all the technologies in your stack. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the technology Data pipelines manage the flow of data from initial collection through consolidation, cleaning, analysis, visualization, and more. Apache Airflow provides a single platform you can use to design, implement, monitor, and maintain your pipelines. Its easy-to-use UI, plug-and-play options, and flexible Python scripting make Airflow perfect for any data management task. About the book Data Pipelines with Apache Airflow teaches you how to build and maintain effective data pipelines. You'll explore the most common usage patterns, including aggregating multiple data sources, connecting to and from data lakes, and cloud deployment. Part reference and part tutorial, this practical guide covers every aspect of the directed acyclic graphs (DAGs) that power Airflow, and how to customize them for your pipeline's needs. What's inside Build, test, and deploy Airflow pipelines as DAGs Automate moving and transforming data Analyze historical datasets using backfilling Develop custom components Set up Airflow in production environments About the reader For DevOps, data engineers, machine learning engineers, and sysadmins with intermediate Python skills. About the author Bas Harensiak and Julian de Ruyter are data engineers with extensive experience using Airflow to develop pipelines for major companies. Bas is also an Airflow committer. Table of Contents PART 1 - GETTING STARTED 1 Meet Apache Airflow 2 Anatomy of an Airflow DAG 3 Scheduling in Airflow 4 Templating

tasks using the Airflow context 5 Defining dependencies between tasks PART 2 - BEYOND THE BASICS 6 Triggering workflows 7 Communicating with external systems 8 Building custom components 9 Testing 10 Running tasks in containers PART 3 - AIRFLOW IN PRACTICE 11 Best practices 12 Operating Airflow in production 13 Securing Airflow 14 Project: Finding the fastest way to get around NYC PART 4 - IN THE CLOUDS 15 Airflow in the clouds 16 Airflow on AWS 17 Airflow on Azure 18 Airflow in GCP