

Database Administration

Leverage the features of Azure SQL database and become an expert in data management Key Features Explore ways to create shards and elastic pools to scale Azure SQL databases Automate common management tasks with PowerShell Implement over 40 practical activities and exercises to reinforce your learning Book Description Despite being the cloud version of SQL Server, Azure SQL Database differs in key ways when it comes to management, maintenance, and administration. This book shows you how to administer Azure SQL database to fully benefit from its wide range of features and functionality. Professional Azure SQL Database Administration begins by covering the architecture and explaining the difference between Azure SQL Database and the on-premise SQL Server to help you get comfortable with Azure SQL database. You'll perform common tasks such as migrating, backing up, and restoring a SQL Server database to an Azure database. As you progress, you'll study how you can save costs and manage and scale multiple SQL Databases using elastic pools. You'll also implement a disaster recovery solution using standard and active geo-replication. Whether it is learning different techniques to monitor and tune an Azure SQL database or improving performance using in-memory technology, this book will enable you to make the most out of Azure SQL database features and functionality for data management solutions. By the end of this book, you'll be well versed with key aspects of an Azure SQL database instance, such as migration, backup restorations, performance optimization, high availability, and disaster recovery. What you will learn Understand Azure SQL Database configuration and pricing options Provision a new SQL database or migrate an existing on-premise SQL Server database to Azure SQL Database Back up and restore Azure SQL Database Secure an Azure SQL database Scale an Azure SQL database Monitor and tune an Azure SQL database Implement high availability and disaster recovery with Azure SQL Database Automate common management tasks with PowerShell Develop a scalable cloud solution with Azure SQL Database Manage, maintain, and secure managed instances Who this book is for If you're a database administrator, database developer, or an application developer interested in developing new applications or migrating existing ones with Azure SQL database, this book is for you. Prior experience of working with an on-premise SQL Server or Azure SQL database along with a basic understanding of PowerShell scripts and C# code is necessary to grasp the concepts covered in this book.

Oracle 10g: Database Administrator: Implementation and Administration (DBA1) uses the most current database release from Oracle to provide thorough coverage of an Oracle database through the day-to-day duties of a database administrator. This real-world approach, combined with topics ranging from initialization parameters and table space storage to data integrity, constraints, and user profiles, provides good preparation for the update Oracle certification exam, Database Fundamentals I (#1Z0-041). In addition to extensive review material, the end of chapter content also includes comprehensive coverage of the exam objectives and exam-like practice questions.

Whether it is learning different techniques to monitor and tune an Azure SQL database or improving performance using in-memory technology, this book will enable you to make the most out of Azure SQL database features and functionality for data management solutions.

Pro Oracle Database 12c Administration is a book focused on results. Author Darl Kuhn draws from a well of experience over a decade deep to lay out real-world techniques that lead to success as an Oracle Database administrator. He gives clear explanations on how to perform critical tasks. He weaves in theory where necessary without bogging you down in unneeded detail. He is not afraid to take a stand on how things should be done. He won't leave you adrift in a sea of choices, showing you three ways to do something and then walking away. Database administration isn't about passing a certified exam, or about pointing-and-clicking your way through a crisis. Database administration is about applying the right solution at the right time, about avoiding risk, about making robust choices that get you home each night in time for dinner with your family. If you have "buck stops here" responsibility for an Oracle database, then Pro Oracle Database 12c Administration is the book you need to help elevate yourself to the level of Professional Oracle Database Administrator. Covers multi-tenant container and pluggable database implementation and management Condenses and organizes the core job of a database administrator into one volume. Takes a results-oriented approach to getting things done. Lays a foundation upon which to build a senior level of expertise

New Oracle database administrators can get off the ground running. This book helps you develop the ability to think on your feet and move focus in an instant from arcane syntax details to broad, corporate issues. Along the way, you will see how to create your first database and implement best practices to ensure a well-running database system. What makes Oracle DBA Mentor different is that it also teaches you how to obtain answers that are not found in this or other books. Focus is given to creating a test bed and running test cases to examine hypotheses and prove out solutions so you can be sure they work in production. Attention is given to navigating product documentation and networking in forums and social media to build your skills and a network to draw on when solving problems under pressure. There are chapters of step-by-step technical content as well as coverage of essential skills to succeed as a DBA no matter which database engine you administer. By the time you are done reading this book, you will have confidence to face many of the situations thrown in your direction. You will know where to go for the answers you don't yet know that you need. You'll be able to work and troubleshoot under pressure. You'll know how to create a database, institute backup and recovery procedures, secure the database and its valuable corporate data, and acquire more knowledge as needed so you can run a database to meet the needs of your organization.

What You'll Learn Install Oracle Database with best practices Implement backup and recovery procedures Understand the fundamentals of databases and data security Find answers to technical problems using Oracle documentation, Oracle Support, and other resources Patch and upgrade an Oracle database Who This Book Is For The novice database administrator who wants help getting off the ground with their DBA career, and in building the skills to let that career flourish in the long term. Mid-level DBAs will also find the book helpful as they try to grow their career to the next level. While the book is geared toward the Oracle platform, database administrators from other platforms can benefit from the soft skills covered in this book.

"Manage and safeguard your organization's data"--Cover.

A database administrator (short form DBA) is a person responsible for the design, implementation, maintenance and repair of an organization's database. They are also known by the titles Database Coordinator or Database Programmer, and is closely related to the Database Analyst, Database Modeller, Programmer Analyst, and Systems Manager. The role includes the development and design of database strategies, monitoring and improving database performance and capacity, and planning for future expansion requirements. They may also plan, co-ordinate and implement security measures to safeguard the database. Employing organizations may require that a database administrator have a certification or degree for database systems (for example, the Microsoft Certified Database Administrator). This book is your ultimate resource for Database Administration. Here you will find the most up-to-date information, analysis, background and everything you need to know. In easy to read chapters, with extensive references and links to get you to know all there is to know about Database Administration right away, covering: Database administration and automation, Database management system, Comparison of database tools, Comparison of object-relational database management systems, ACID, ANSI-SPARC Architecture, Armstrong's axioms, Associative model of data, AutoNumber, Bidirectionalization, Big data, Bitemporal data, Block contention, Candidate key, Citrusleaf database, Column-oriented DBMS, Commit (data management), Comparison of relational database management systems, Connection pool, Correlation database, Create, read, update and delete, Cursor (databases), Data Control Language, Data Definition Language, Data Manipulation Language, Data mart, Data masking, Data redundancy, Data retrieval, Data store, Database, Database design, Database dump, Database engine, Database model, Database normalization, Database storage structures, Database system, Database theory, Database transaction, Database trigger, Database tuning, Datasource, Deductive database, Distributed database management system, Document-oriented database, Enterprise database management, Expression index, Federated database system, Foreign key, Formatted File System, Heterogeneous Database System, Hierarchical query, In-database processing, In-memory database, Index (database), InfinityDB, Integrated Data Management, ISBL, Least number bits, Life cycle of a relational database, List of object database management systems, List of relational database management systems, Mariposa (database), Master data management, Metadatabase, Microsoft Access, MultiValue, Nested SQL, No-force, Object database, Object Exchange Model, Object-based spatial database, Object-relational database, Online transaction processing, Oracle Database, Oracle Exadata, Partial index, Partition (database), Polyinstantiation, Pool (computer science), Precedence graph, Probabilistic database, QUEL query languages, Query language, Query optimization, Query optimizer, Query plan, Quorum (distributed computing), Referential integrity, Materialized view, Relation (database), Synonym (database), Relational algebra, Relational calculus, Relational database, Relational database management system, Relational model, Remote Database Access, Resources, Events, Agents, Rollback (data management), Sargable, Secondary database server, Shard (database architecture), Shared read lock, Smart variables, Spatiotemporal database, SQL, Microsoft SQL Server, Stored procedure, Superkey, Surrogate key, Table (database), Tablespace, Tactical Munitions Recording System, Temporal database, The Third Manifesto, Transaction Control Language...and much more This book explains in-depth the real drivers and workings of Database Administration. It reduces the risk of your technology, time and resources investment decisions by enabling you to compare your understanding of Database Administration with the objectivity of experienced professionals.

The infrastructure-as-code revolution in IT is also affecting database administration. With this practical book, developers, system administrators, and junior to mid-level DBAs will learn how the modern practice of site reliability engineering applies to the craft of database architecture and operations. Authors Laine Campbell and Charity Majors provide a framework for professionals looking to join the ranks of today's database reliability engineers (DBRE). You'll begin by exploring core operational concepts that DBREs need to master. Then you'll examine a wide range of database persistence options, including how to implement key technologies to provide resilient, scalable, and performant data storage and retrieval. With a firm foundation in database reliability engineering, you'll be ready to dive into the architecture and operations of any modern database. This book covers: Service-level requirements and risk management Building and evolving an architecture for operational visibility Infrastructure engineering and infrastructure management How to facilitate the release management process Data storage, indexing, and replication Identifying datastore characteristics and best use cases Datastore architectural components and data-driven architectures

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[Oracle 10g Database Administrator](#)

[Linux Services. AL3-056](#)

[Oracle 10g Database Administrator II](#)

[PostgreSQL database administration tools](#)

[Oracle DBA Mentor](#)

[Certification Study Guide](#)

[Beginning Oracle Database 12c Administration](#)

[DB2 10 for z/OS Database Administration](#)

This book provides administrators with essential information on Oracle databases as well as their interaction with SAP systems. First, you'll learn how best to plan or extend an effective, secure system landscape. The authors show you how to analyze and optimize the performance of hardware, operating system, database, and SAP system as well as which parameters and tools you can use to monitor them. An entire chapter deals with the critical aspects of backup, recovery, and restore, describing different data backup concepts, BR*Tools, the Oracle Recovery Manager, and various backup strategies in detail. In addition, the authors tackle advanced topics, such as Java and SAP NetWeaver BI. By bridging the gap between basic background knowledge and real-life instruction, this book assists you in solving concrete administration problems, structuring the operation of your system to achieve higher performance, and improving data security and availability.

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)

Direct from Microsoft, these Exam Refs are the official study guides for the new Microsoft 70-764 Administering a SQL Database Infrastructure and Microsoft 70-765 Provisioning SQL Databases certification exams. Exam Ref 70-764 Administering a SQL Database Infrastructure and Exam Ref 70-765 Provisioning SQL Databases offer professional-level preparation that helps candidates maximize their exam performance and sharpen their skills on the job. Microsoft Exam Ref publications stand apart from third-party study guides because they: Provide guidance from Microsoft, the creator of Microsoft certification exams Target IT professional-level exam candidates with content focused on their needs, not "one-size-fits-all" content Streamline study by organizing material according to the exam's objective domain (OD), covering one functional group and its objectives in each chapter Feature Thought Experiments to guide candidates through a set of "what if?" scenarios, and prepare them more effectively for Pro-level style exam questions Explore big picture thinking around the planning and design aspects of the IT pro's job role For more information on this certification, visit microsoft.com/learning

In the Information Technologies industry there are few domains less understood than Database Administration. People keep asking what are the responsibilities of a Database Administrator, what are the specific tasks and processes Database Administrators rely on to fulfill those responsibilities and, by which rules Database Administrators abide to deal with whatever they do. Some people ask those questions out of simple curiosity, others because they are in or close to a DBA role, others because they have to deal with DBAs in a user, developer, management, etc. capacity and, want to have a better understanding of the DBA world. Everyone has its own reasons to ask questions about the database administration world; questions are always the same. This book intends to answer those questions. This is a technology agnostic book meaning that it applies to the field of database administration in general rather than focusing on any specific database vendor technology in particular. Enjoy it.

Database Administration, Second Edition , is the definitive, technology-independent guide to the modern discipline of database administration. Packed with best practices and proven solutions for any database platform or environment, this text fully reflects the field's latest realities and challenges. Drawing on more than thirty years of database experience, Mullins focuses on problems that today's DBAs actually face, and skills and knowledge they simply must have. Mullins presents realistic, thorough, and up-to-date coverage of every DBA task, including creating database environments, data modeling, normalization, design, performance, data integrity, compliance, governance, security, backup/recovery, disaster planning, data and storage management, data movement/distribution, data warehousing, connectivity, metadata, tools, and more. This edition adds new coverage of "Big Data," database appliances, cloud computing, and NoSQL. Mullins includes an entirely new chapter on the DBA's role in regulatory compliance, with substantial new material on data breaches, auditing, encryption, retention, and metadata management. You'll also find an all-new glossary, plus up-to-the-minute DBA rules of thumb.

This book is an anthology of effective database management techniques representing the collective wisdom of the OakTable Network. With an emphasis upon performance—but also branching into security, national language, and other issues—the book helps you deliver the most value for your company's investment in Oracle Database technologies. You'll learn to effectively plan for and monitor performance, to troubleshoot systematically when things go wrong, and to manage your database rather than letting it manage you.

Oracle 10g Database Administrator II: Backup/Recovery uses the most current database release from Oracle to provide thorough coverage of an Oracle database through the day-to-day duties of a database administrator. This text drills down key tools and techniques for Oracle database backup, recovery and network administration and provides good preparation for the update Oracle certification exam, Database Fundamentals I (#1Z0-043). In addition to extensive review material, the end of chapter content also includes comprehensive coverage of the exam objectives and exam-like practice questions. This text is the perfect compliment to the Oracle 10g: Database Administrator: Implementation and Administration (DBA1) text and the 1Z0-042.

The Topics Covered In This Book Are: Visualizing the Complete Oracle Environment, SQL: Structured Query Language, Oracle Database Concepts, Oracle Instance Concepts, Oracle in Action, Complete Oracle System Design: Steps of Implementation, Oracle Database Design, Oracle Network Administration, Oracle Database Management, Oracle Backup & Recovery Techniques, Oracle Performance Tuning Everything in this book is covered in a step by step manner by first building reader's concept using analogies, real world examples and then taking him/her to the steps of design implementation. The book covers Oracle 10g Database Administration for both Unix as well as Windows OS. The concepts and most of the stuff discussed in this book are equally good for other Oracle versions including 11g.

[Equip yourself with the skills to manage and maintain data in the cloud, 2nd Edition](#)

[MySQL Administrator's Bible](#)

[Oracle 10g: Database Administration Concepts & Implementation Made Simple](#)

[The Complete Guide to Practices and Procedures](#)

[The Complete Guide to DBA Practices and Procedures](#)

[Pro Oracle Database 12c Administration](#)

[Database Administration](#)

[Understanding Database Administration](#)

[Oracle Database Administration for Microsoft SQL Server DBAs](#)

[Backup/recovery & Network Administration](#)

[Pro Oracle Database 18c Administration](#)

Database administration isn't about passing a certified exam, or about pointing and clicking your way through a crisis. Database administration is about applying the right solution at the right time, avoiding risk, and making robust choices that get you home each night in time for dinner with your family. This book will help elevate you to the level of Professional Oracle Database Administrator. This book provides information and techniques for keeping an Oracle database stable and running on-premise, and is fully updated to cover Oracle Database 18c. New in this edition is coverage of cloud administration in the Oracle Public Cloud, automation of tasks using the autonomous database features, and data movement with multi-tenant databases. The book covers everything from architecture of the database engine, securing objects and users, strategies for performing maintenance tasks and resolving performance problems, through to backup and recovery. Pro Oracle Database 18c Administration takes a modern approach to database administration. Emphasis is given to automation, which is of growing importance as more databases are being moved into various cloud solutions and database administrators are being required to manage more instances than ever. Focus is given to multi-tenant container architecture and pluggable databases, and the book takes a refreshing, results-oriented approach that helps you get the job done. What You'll Learn Understand the differences between managing on-premise and cloud deployments Take advantage of new features in 18c while also managing older releases Manage more databases than ever by automating your environment Apply the latest techniques around pluggable databases and containerization Safeguard your data through good security and backup/recovery practices Troubleshoot common problems Who This Book Is For Database architects and administrators who want to level-up to the latest techniques around containerization, automation, and cloud deployment. The book also is appropriate for Oracle professionals desiring to present themselves as being competitive and up-to-date with the latest in the field.

You will find tools for managing PostgreSQL. A description of tools for administrating the PostgreSQL database in the graphic mode (pgAdmin) and with the use of an internet browser (phpPgAdmin). Keywords: pgAdmin, Kexi, phpPgAdmin

The key to mastering IBM's DB2 for z/OS Written primarily for database administrators who work on z/OS and who are taking the IBM DB2 10 for z/OS Database Administration certification exam (Exam 612), this resource also appeals to those who simply want to master the skills needed to be an effective database administrator of z/OS mainframes. The guide covers all the topics on the exam, including database design and implementation, operation and recovering, security and auditing, performance, and installation and migration. Complete with sample questions and detailed answers as well as a full-length practice exam this study guide serves as an essential tool. Programmers will learn how to create, maintain, and administer DB2 10 databases on the z/OS platform and how to implement XML with a DB2 10 database, making them successful database administrators after they pass certification.

Giving comprehensive, soup-to-nuts coverage of database administration, this guide is written from a platform-independent viewpoint, emphasizing best practices.

Follow this handbook to build, configure, tune, and secure Apache Cassandra databases. Start with the installation of Cassandra and move on to the creation of a single instance, and then a cluster of Cassandra databases. Cassandra is increasingly a key player in many big data environments, and this book shows you how to use Cassandra with Apache Spark, a popular big data processing framework. Also covered are day-to-day topics of importance such as the backup and recovery of Cassandra databases, using the right compression and compaction strategies, and loading and unloading data. Expert Apache Cassandra Administration provides numerous step-by-step examples starting with the basics of a Cassandra database, and going all the way through backup and recovery, performance optimization, and monitoring and securing the data. The book serves as an authoritative and comprehensive guide to the building and management of simple to complex Cassandra databases. The book: Takes you through building a Cassandra database from installation of the software and creation of a single database, through to complex clusters and data centers Provides numerous examples of actual commands in a real-life Cassandra environment that show how to confidently configure, manage, troubleshoot, and tune Cassandra databases Shows how to use the Cassandra configuration properties to build a highly stable, available, and secure Cassandra database that always operates at peak efficiency What You'll Learn Install the Cassandra software and create your first database Understand the Cassandra data model, and the internal architecture of a Cassandra database Create your own Cassandra cluster, step-by-step Run a Cassandra cluster on Docker Work with Apache Spark by connecting to a Cassandra database Deploy Cassandra clusters in your data center, or on Amazon EC2 instances Back up and restore mission-critical Cassandra databases Monitor, troubleshoot, and tune production Cassandra databases, and cut your spending on resources such as memory, servers, and storage Who This Book Is For Database administrators, developers, and architects who are looking for an authoritative and comprehensive single volume for all their Cassandra administration needs. Also for administrators who are tasked with setting up and maintaining highly reliable and high-performing Cassandra databases. An excellent choice for big data administrators, database administrators, architects, and developers who use Cassandra as their key data store, to support high volume online transactions, or as a decentralized, elastic data store. Covers: data architecture, data standards, the strategic plan and systems development, data integration issues in systems development, and the data administrator: achieving excellence.

This book, written by veteran Oracle database administrator Iggy Fernandez, a regular on the Oracle conference circuit and the editor of NoCOUG Journal, is a manageable introduction to key Oracle database administration topics including planning, installation, monitoring, troubleshooting, maintenance, and backups, to name just a few. As is clear from the table of contents, this book is not simply a recitation of Oracle Database features such as what you find in the reference guides available for free download on the Oracle web site. For example, the chapter on database monitoring explains how to monitor database availability, database changes, database security, database backups, database growth, database workload, database performance, and database capacity. The chapters of this book are logically organized into four parts that closely track the way your database administration career will naturally evolve. Part 1 gives you necessary background in relational database theory and Oracle Database concepts, Part 2 teaches you how to implement an Oracle database correctly, Part 3 exposes you to the daily routine of a database administrator, and Part 4 introduces you to the fine art of performance tuning. Each chapter has exercises designed to help you apply the lessons of the chapter. Each chapter also includes a list of reference works that contain more information on the topic of the chapter. In this book, you'll find information that you won't find in other books on Oracle Database. Here you'll discover not only technical information, but also guidance on work practices that are as vital to your success as technical skills. The author's favorite chapter is "The Big Picture and the Ten Deliverables." If you take the lessons in that chapter to heart, you can quickly become a much better Oracle database administrator than you ever thought possible.

Discover how you can migrate a traditional on-premise SQL server database to a cloud-based solution with Microsoft Azure. Built with database administrators in mind, this book emulates different scenarios you might come across while working with large, complex SQL database migrations and provides solutions for effectively managing the migrated databases. Key Features Implement backup, restore, and recovery of Azure SQL databases Create shards and elastic pools to scale Azure SQL databases Automate common management tasks with PowerShell Implement over 40 practical activities and exercises across 24 topics to reinforce your learning Book Description As the cloud version of SQL Server, Azure SQL Database differs in key ways when it comes to management, maintenance, and administration. It's important to know how to administer SQL Database to fully benefit from all of the features and functionality that it provides. This book addresses important aspects of an Azure SQL Database instance such as migration, backup restorations, pricing policies, security, scalability, monitoring, performance optimization, high availability, and disaster recovery. It is a complete guide for database administrators, and ideal for those who are planning to migrate from on premise SQL Server database to an Azure SQL Server database. What you will learn Learn how to provision a new database or migrate an existing on-premise solution Understand how to backup, restore, secure, and scale your own Azure SQL Database Optimize the performance by monitoring and tuning your cloud-based SQL instance Implement high availability and disaster recovery procedures with SQL Database Develop a roadmap for your own scalable cloud solution with Azure SQL Database Who this book is for This book is ideal for database administrators, database developers, or application developers who are interested in developing or migrating existing applications with Azure SQL Database. Prior experience of working with an on-premise SQL Server deployment and brief knowledge of PowerShell and C# are recommended prerequisites.

[Database Reliability Engineering](#)

[Manage and Safeguard Your Organization's Data](#)

[A Real-World Certification Guide](#)

[Oracle Database Administration from the Oak Table](#)

[Oracle Database Administration: The Essential Reference](#)

[Professional Azure SQL Managed Database Administration](#)

[SAP Database Administration with Oracle](#)

[Pro Oracle Database 11g Administration](#)

[Standards & Techniques](#)

[Succeeding as an Oracle Database Administrator](#)

[Exam 98-364 MTA Database Administration Fundamentals](#)

Students who are beginning studies in technology need a strong foundation in the basics before moving on to more advanced technology courses and certification programs. The Microsoft Technology Associate (MTA) is a new and innovative certification track designed to provide a pathway for future success in technology courses and careers. The MTA program curriculum helps instructors teach and validate fundamental technology knowledge and provides students with a foundation for their careers as well as the confidence they need to succeed in advanced studies. Through the use of MOAC MTA titles you can help ensure your students future success in and out of the classroom. Database Administration Fundamentals covers introductory knowledge and skills including: relational databases; core database concepts; relational database concepts; security requirements for databases and the data stored in them; database objects -- such as tables and views; graphical tools and T-SQL scripts; database queries; and stored procedures.

Pro Oracle Database 11g Administration is a book focused on results. Author Darl Kuhn draws from a well of experience over a decade deep to lay out real-world techniques that lead to success as an Oracle Database administrator. He gives clear explanations on how to perform critical tasks. He weaves in theory where necessary without bogging you down in unneeded detail. He is not afraid to take a stand on how things should be done. He won't leave you adrift in a sea of choices, showing you three ways to do something and then walking away. Database administration isn't about passing a certified exam, or about pointing-and-clicking your way through a crisis. Database administration is about applying the right solution at the right time, about avoiding risk, about making robust choices that get you home each night in time for dinner with your family. If you have "buck stops here" responsibility for an Oracle database, then Pro Oracle Database 11g Administration is the book you need to help elevate yourself to the level of Professional Oracle Database Administrator. Condenses and organizes the core job of a database administrator into one volume. Takes a results-oriented approach to getting things done. Lays a foundation upon which to build a senior level of expertise

This 1,000-page book enables a beginner or intermediate level Oracle DBA or Oracle Developer/Manager to master the art of building and managing complex Oracle 9i databases.

Beginning Oracle Database 12c Administration is your entry point into a successful and satisfying career as an Oracle Database Administrator. The chapters of this book are logically organized into four parts closely tracking the way your database administration career will naturally evolve. Part 1 "Database Concepts" gives necessary background in relational database theory and Oracle Database concepts, Part 2 "Database Implementation" teaches how to implement an Oracle database correctly, Part 3 "Database Support" exposes you to the daily routine of a database administrator, and Part 4 "Database Tuning" introduces the fine art of performance tuning. Beginning Oracle Database 12c Administration provides information that you won't find in other books on Oracle Database. You'll discover not only technical information, but also guidance on work practices that are as vital to your success as your technical skills. The author's favorite chapter is "The Big Picture and the Ten Deliverables." (It is the editor's favorite chapter too!) If you take the lessons in that chapter to heart, you can quickly become a much better Oracle database administrator than you ever thought possible. You will grasp the key aspects of theory behind relational database management systems and learn how to: • Install and configure an Oracle database, and ensure that it's properly licensed; • Execute common management tasks in a Linux environment; • Defend against data loss by implementing sound backup and recovery practices; and • Improve database and query performance. Apply Your SQL Server DBA Skills to Oracle Database Administration Use your SQL Server experience to set up and maintain a high-performance Oracle Database environment. Written by a DBA with expertise in both platforms, Oracle Database Administration for Microsoft SQL Server DBAs illustrates each technique with clear explanations, examples, and comparison tables. Get full details on Oracle Database intervals, creation assistants, management techniques, and query tools. High availability, disaster recovery, and security procedures are also extensively covered in this comprehensive Oracle Press guide. Install and configure Oracle Database on Windows or Linux systems Administer and monitor databases from Oracle Enterprise Manager Implement robust security using roles, permissions, and privileges Back up and restore databases with Oracle Recovery Manager Use the Oracle cost-based optimizer to tune performance Write, debug, and execute PL/SQL queries using Oracle SQL Developer Maximize availability with Oracle Real Application Clusters Build standby and failover servers using Oracle Data Guard

This comprehensive reference guide offers useful pointers for advanced use of SQL and describes the bugs and workarounds involved in compiling MySQL for every system.

DB2 Universal Database v8 builds on the world's #1 enterprise database to simplify anytime/anywhere information integration, streamline management, automate resource tuning, enhance business intelligence, and maximize performance, scalability, and reliability. Now, IBM offers complete, start-to-finish coverage of DB2 Universal Database v8 administration and development for UNIX, Linux, and Windows platforms... "and authoritative preparation for IBM's newest DB2 certification exam." This definitive reference and self-study guide covers every aspect of deploying and managing DB2 Universal Database v8, including best practices for DB2 database design and development; day-to-day administration and backup; expert techniques for deploying networked, Internet-centered, and XML-based database applications; migrating to DB2 UDB v8; and much more.You'll also find an unparalleled collection of IBM tips and tricks for maximizing the performance, availability, and value of any database system. Coverage includes: Manageability and serviceability enhancements, including new tools for storage management and monitoring database health Performance improvement with multidimensional clustering, enhanced prefetching, threading of Java UDFs and stored procedures, and materialized query tables New Setup wizards, configuration assistants, GUI tools, and DB2 Administration Server (DAS) improvements Availability and scalability enhancements New DB2 v8 Replication and Data Warehouse Centers Major improvements for developers, including SQL, XML, JDBC, and CLEnancements Whether you're a DBA, a developer, a DB2 certification candidate, or all three, "DB2 Universal Database v8 for Linux, UNIX, and Windows Database Administration Certification Guide" is the one book you can't afford to be without. Straight from IBM, the ultimate guide to running DB2 v8 and preparing for IBM's latest DB2 certification exam! In-depth coverage of DB2 v8 database administration and development Covers new DB2 v8 enhancements in manageability, serviceability, reliability, availability, and performance Contains in-depth coverage of new DB2 v8 tools, including the Replication, Data Warehouse, and Development Centers Presents expert tips and best practices from IBM's own DB2 customer support organization About the CD The CD-ROM included with this book contains a complete trial version of DB2 UDB V8 Personal Edition, plus the DB2DEMO program to help explore the many features of DB2.

Oracle database administration requires a vast amount of information and an ability to perform a myriad of tasks--from installation to tuning to network troubleshooting to overall daily administration. Oracle provides many tools for performing these tasks; the trick is knowing what tool is right for the job, what commands you need to issue (and when), and what parameters and privileges you need to set. And, as every DBA knows, you need to know how to do all this under pressure, while you face crisis after crisis. This book provides a concise reference to the enormous store of information an Oracle DBA needs every day (as well as what's needed only when disaster strikes). It's crammed full of quick-reference tables, task lists, and other summary material that both novice and expert DBAs will use time and time again. It covers the commands and operations new to Oracle8, but also provides Oracle7 information for sites still running earlier versions. Oracle Database Administration provides two types of material: DBA tasks--chapters summarizing how to perform critical DBA functions: installation, performance tuning, preventing data loss, networking, security and monitoring, auditing, query optimization, and the use of various Oracle tools and utilities DBA reference--chapters providing a quick reference to the Oracle instance and database, the initialization (INIT.ORA) parameters, the SQL statements commonly used by DBAs, the data dictionary tables, the system privileges and roles, and the SQL*Plus, Export, Import, and SQL*Loader syntax The book also includes a resource summary with references to additional books, Web sites, and other online and offline resources of special use to Oracle DBAs. Oracle Database Administration is the single essential reference you'll turn to again and again. If you must choose only one book to use at the office, keep at home, or carry to a site you're troubleshooting, this will be that book.

[MySQL Reference Manual](#)

[Practices and Procedures](#)

[Data Administration](#)

[Expert Apache Cassandra Administration](#)

[Expert Oracle Practices](#)

[DB2 Universal Database V8 for Linux, UNIX, and Windows Database Administration Certification Guide](#)

[Oracle Database Administration on UNIX Systems](#)

[Efficiently manage and modernize data in the cloud using Azure SQL, 3rd Edition](#)

[Data Base Administration](#)

[Designing and Operating Resilient Database Systems](#)

[Professional Azure SQL Database Administration](#)

Developed as a practical book, "Oracle Database 11g Administration I Certification Guide" will show you all you need to know to effectively excel at being an Oracle DBA, for both examinations and the real world. This book is for anyone who needs the essential skills to become an Oracle DBA, pass the Oracle Database Administration I exam, and use those skills in the real world to manage secure, high performance, and highly available Oracle databases.

The accompanying CD-ROM includes a multimedia installation and configuration tutorial based on Brown's popular UC Berkeley Extension Oracle course. It's HTML-based and viewable with any Web browser.

With special focus on the next major release of MySQL, this resource provides a solid framework for anyone new to MySQL or transitioning from another database platform, as well as experience MySQL administrators. The high-profile author duo provides essential coverage of the fundamentals of MySQL database management—including MySQL's unique approach to basic database features and functions—as well as coverage of SQL queries, data and index types, stores procedure and functions, triggers and views, and transactions. They also present comprehensive coverage of such topics as MySQL server tuning, managing storage engines, caching, backup and recovery, managing users, index tuning, database and performance monitoring, security, and more.

In modern organizations, data has been added to the classical economic assets of land, labor, and capital. Data on company products, finances, and operations are gathered into data bases that are used to support management reporting and decision making. Effective use of these data bases requires control over their design and development and coordination among the various users. The exercise of these management functions is called data base administration (DBA). DBA is an evolutionary area. In many organizations, it was formed as a response to the problems created by the installation of sophisticated systems for data base management. As a result, the practice of DBA has been strongly influenced by its technological and organizational environment. The size, organizational position, staffing, and defined role of DBA vary from firm to firm. However, certain fundamental tasks and responsibilities are, or should be, recognized as the province of DBA. To date, literature on the DBA function is sparse. Most texts on data base management systems (Date, 1975; Kroenke, 1977; Martin, 1978; Sprowls, 1976; Tschirztzis and Lochovsky, 1977)* discuss DBA as one aspect of that technology.

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[Exam Refs 70-764 And 70-765](#)

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