

Beginners guide to creating

***DATABASE
& TABLE***



Sql Beginners Guide Tutorial

María Carina Roldán



Sql Beginners Guide Tutorial:

The Absolute Beginner's Guide to Learn Database Programming Using Python GUI with PostgreSQL and SQL Server
Vivian Siahaan, Rismon Hasiholan Sianipar, 2020-01-16 This book is a comprehensive guide to Python as one of the fastest growing computer languages including Web and Internet applications This clear and concise introduction to the Python language is aimed at readers who are already familiar with programming in at least one language This hands on book introduces the essential topic of coding and the Python computer language to beginners and programmers of all ages This book explains relational theory in practice and demonstrates through two projects how you can apply it to your use of PostgreSQL and SQL Server databases This book covers the important requirements of teaching databases with a practical and progressive perspective This book offers the straightforward practical answers you need to help you do your job This hands on tutorial reference guide to PostgreSQL and SQL Server is not only perfect for students and beginners but it also works for experienced developers who aren't getting the most from both databases In designing a GUI and as an IDE you will make use Qt Designer In the first chapter you will learn to use several widgets in PyQt5 Display a welcome message Use the Radio Button widget Grouping radio buttons Displays options in the form of a check box and Display two groups of check boxes In chapter two you will learn to use the following topics Using Signal Slot Editor Copy and place text from one Line Edit widget to another Convert data types and make a simple calculator Use the Spin Box widget Use scrollbars and sliders Using the Widget List Select a number of list items from one Widget List and display them on another Widget List widget Add items to the Widget List Perform operations on the Widget List Use the Combo Box widget Displays data selected by the user from the Calendar Widget Creating a hotel reservation application and Display tabular data using Table Widgets In chapter three you will learn How to create the initial three tables project in the School database Teacher Class and Subject tables How to create database configuration files How to create a Python GUI for inserting and editing tables How to create a Python GUI to join and query the three tables In chapter four you will learn how to Create a main form to connect all forms Create a project will add three more tables to the school database Student Parent and Tuition tables Create a Python GUI for inserting and editing tables Create a Python GUI to join and query over the three tables In chapter five you will join the six classes Teacher TClass Subject Student Parent and Tuition and make queries over those tables In chapter six you will get introduction of postgresql And then you will learn querying data from the postgresql using Python including establishing a database connection creating a statement object executing the query processing the resultset object querying data using a statement that returns multiple rows querying data using a statement that has parameters inserting data into a table using Python updating data in postgresql database using Python calling postgresql stored function using Python deleting data from a postgresql table using Python and postgresql Python transaction In chapter seven you will create and configure PostgreSQL database In this chapter you will create Suspect table in crime database This table has eleven columns suspect_id primary

key suspect_name birth_date case_date report_date suspect_status arrest_date mother_name address telephone and photo You will also create GUI to display edit insert and delete for this table In chapter eight you will create a table with the name Feature_Extraction which has eight columns feature_id primary key suspect_id foreign key feature1 feature2 feature3 feature4 feature5 and feature6 The six fields except keys will have a VARCHAR data type 200 You will also create GUI to display edit insert and delete for this table In chapter nine you will create two tables Police and Investigator The Police table has six columns police_id primary key province city address telephone and photo The Investigator table has eight columns investigator_id primary key investigator_name rank birth_date gender address telephone and photo You will also create GUI to display edit insert and delete for both tables In chapter ten you will create two tables Victim and Case_File The Victim table has nine columns victim_id primary key victim_name crime_type birth_date crime_date gender address telephone and photo The Case_File table has seven columns case_file_id primary key suspect_id foreign key police_id foreign key investigator_id foreign key victim_id foreign key status and description You will create GUI to display edit insert and delete for both tables as well

The Absolute Beginner's Guide to Learn Database Programming Using Python GUI with MariaDB and SQL Server Vivian Siahaan, Rismon Hasiholan Sianipar, 2020-01-16 This book is designed to introduce programmers to programming and computational thinking through the lens of exploring database This book offers Python programmers one place to look when they need help guiding to Python as one of the fastest growing computer languages including Web and Internet applications This clear and concise introduction to the Python language is aimed at readers who are already familiar with programming in at least one language This hands on book introduces the essential topic of coding and the Python computer language to beginners and programmers of all ages This book explains relational theory in practice and demonstrates through two projects how you can apply it to your use of MariaDB and SQL Server databases This book covers the important requirements of teaching databases with a practical and progressive perspective This book offers the straightforward practical answers you need to help you do your job This hands on tutorial reference guide to MariaDB and SQL Server is not only perfect for students and beginners but it also works for experienced developers who aren't getting the most from both databases In designing a GUI and as an IDE you will make use Qt Designer In the first chapter you will learn to use several widgets in PyQt5 Display a welcome message Use the Radio Button widget Grouping radio buttons Displays options in the form of a check box and Display two groups of check boxes In chapter two you will learn to use the following topics Using Signal Slot Editor Copy and place text from one Line Edit widget to another Convert data types and make a simple calculator Use the Spin Box widget Use scrollbars and sliders Using the Widget List Select a number of list items from one Widget List and display them on another Widget List widget Add items to the Widget List Perform operations on the Widget List Use the Combo Box widget Displays data selected by the user from the Calendar Widget Creating a hotel reservation application and Display tabular data using Table Widgets In chapter three you will learn How to create the initial

three tables project in the School database Teacher Class and Subject tables How to create database configuration files How to create a Python GUI for inserting and editing tables How to create a Python GUI to join and query the three tables In chapter four you will learn how to Create a main form to connect all forms Create a project will add three more tables to the school database Student Parent and Tuition tables Create a Python GUI for inserting and editing tables Create a Python GUI to join and query over the three tables In chapter five you will join the six classes Teacher TClass Subject Student Parent and Tuition and make queries over those tables In chapter six you will create dan configure database In this chapter you will create Suspect table in crime database This table has eleven columns suspect_id primary key suspect_name birth_date case_date report_date suspect_status arrest_date mother_name address telephone and photo You will also create GUI to display edit insert and delete for this table In chapter seven you will create a table with the name Feature_Extraction which has eight columns feature_id primary key suspect_id foreign key feature1 feature2 feature3 feature4 feature5 and feature6 The six fields except keys will have a VARCHAR data type 200 You will also create GUI to display edit insert and delete for this table In chapter eight you will create two tables Police and Investigator The Police table has six columns police_id primary key province city address telephone and photo The Investigator table has eight columns investigator_id primary key investigator_name rank birth_date gender address telephone and photo You will also create GUI to display edit insert and delete for both tables In chapter nine you will create two tables Victim and Case_File The Victim table has nine columns victim_id primary key victim_name crime_type birth_date crime_date gender address telephone and photo The Case_File table has seven columns case_file_id primary key suspect_id foreign key police_id foreign key investigator_id foreign key victim_id foreign key status and description You will create GUI to display edit insert and delete for both tables as well

Pentaho Data Integration Beginner's Guide María Carina Roldán,2013-10-24 This book focuses on teaching you by example The book walks you through every aspect of Pentaho Data Integration giving systematic instructions in a friendly style allowing you to learn in front of your computer playing with the tool The extensive use of drawings and screenshots make the process of learning Pentaho Data Integration easy Throughout the book numerous tips and helpful hints are provided that you will not find anywhere else This book is a must have for software developers database administrators IT students and everyone involved or interested in developing ETL solutions or more generally doing any kind of data manipulation Those who have never used Pentaho Data Integration will benefit most from the book but those who have they will also find it useful This book is also a good starting point for database administrators data warehouse designers architects or anyone who is responsible for data warehouse projects and needs to load data into them *Absolute Beginner's Guide to Databases* John V. Petersen,2002 Absolute Beginner s Guide to Databases brings the elements of a database together using easy to understand language perfect for the true beginner It not only gives specific hands on practice but also provides an overview of designing maintaining and using a database This book covers what databases are used for why databases are

important why the design of the database is important database normalization keys to solid database design differences in types of databases and indexes what they are how we use them and why they are important MySQL Tutorials - Herong's Tutorial Examples Herong Yang,1999-01-01 This MySQL tutorial book is a collection of notes and sample codes written by the author while he was learning MySQL himself an ideal tutorial guide for beginners Topics include introduction of Structured Query Language SQL installation of MySQL server on Windows Linux and macOS using MySQL client program accessing MySQL server from PHP Java and Perl programs SQL data types literals operations expressions and functions Statements of Data Definition Language DDL Data Manipulation Language DML and Query Language creating and using indexes using window functions stored procedures transaction management locks and deadlocks InnoDB and other storage engines Updated in 2023 Version v4 46 with minor changes For latest updates and free sample chapters visit <https://www.herongyang.com/MySQL/> Starlit Pathways: A Beginner's Guide to Understanding Astrology Marion Odonnell,2025-04-21

Discover the captivating world of astrology with Starlit Pathways a comprehensive guide for beginners Embark on a journey that unveils the mysteries of the cosmos and their profound influence on your life This accessible book provides a comprehensive overview of the fundamental concepts of astrology including the zodiac planets and astrological charts It empowers you to interpret your unique astrological blueprint enabling you to gain insights into your personality strengths challenges and life path Through engaging narratives and practical exercises Starlit Pathways illuminates the interplay between celestial bodies and earthly experiences It explores the impact of planetary alignments on relationships career and personal growth By understanding these cosmic influences you can harness their potential to navigate life's complexities with greater clarity and purpose Whether you're a curious novice or an aspiring astrologer this guidebook will ignite your fascination with the stars and empower you to unlock the transformative power of astrology It's a valuable resource for anyone seeking a deeper understanding of themselves and their place in the vast cosmic tapestry Hacker's Handbook- A Beginner's Guide To Ethical Hacking Pratham Pawar,2024-09-24 Dive into the world of ethical hacking with this comprehensive guide designed for newcomers Hacker's Handbook demystifies key concepts tools and techniques used by ethical hackers to protect systems from cyber threats With practical examples and step by step tutorials readers will learn about penetration testing vulnerability assessment and secure coding practices Whether you're looking to start a career in cybersecurity or simply want to understand the basics this handbook equips you with the knowledge to navigate the digital landscape responsibly and effectively Unlock the secrets of ethical hacking and become a guardian of the cyber realm

SQL: A Beginner's Guide, Fourth Edition Andy Oppel,2015-10-22 Essential SQL Skills Made Easy Fully revised to cover the latest software versions this easy to follow guide will get you started programming in SQL right away Discover how to create database tables access and modify data work with triggers and transactions build effective queries and handle management and administrative functions SQL A Beginner's Guide Fourth Edition offers clear instruction on each topic and

is loaded with step by step examples This practical book includes coverage of database security SQL XML and new temporal data features Designed for Easy Learning Key Skills Concepts Lists of specific skills covered in the chapter Ask the Expert Q A sections filled with bonus information and helpful tips Try This Hands on exercises that show how to apply your skills Notes Extra information related to the topic being covered Tips Helpful reminders or alternate ways of doing things Cautions Errors and pitfalls to avoid Self Tests Chapter ending quizzes to test your knowledge Annotated Syntax Example code with commentary that describes the programming techniques being illustrated **Learning SQL** Sikha Bagui, Richard Earp, 2003 This book is a brief hands on tutorial covering the basics of using SQL as well as using the Access database engine and SQL An introduction to beginning SQL tasks is accomplished in this book A series of exercises at the end of each chapter takes these newly learned SQL skills and puts them to work While learning about SQL readers will also gain insight on how the basics are used by professional Access programmers Microsoft Azure AI: A Beginner's Guide Rekha Kodali, Sankara Narayanan Govindarajulu, Mohammed Athaulla, 2022-04-21 Explore Azure AI Platform KEY FEATURES Easy to follow tutorial for getting started with the Azure AI platform Integrated platform for developing deploying and managing AI apps Includes real world scenarios and use cases to fully explore Azure AI Platform DESCRIPTION Microsoft Azure AI A Beginner's Guide explains the fundamentals of Azure AI and some more advanced topics The sole objective of the book is to provide hands on experience working with the various services APIs and tools available in the Azure AI Platform This book begins by discussing the fundamentals of the Azure AI platform and the essential principles behind the Azure AI ecosystem and services Readers will become familiar with the essential services use cases and examples provided by Azure AI Platform and Services including Azure Cognitive Services Azure Computer Vision Azure Applied AI Services and Azure Machine Learning The author focuses on teaching how to utilize Azure Cognitive services to construct intelligent apps including Image Processing Object Detection Text Recognition OCR Spatial Analysis and Face Recognition using Computer Vision Readers can investigate Azure Applied AI Services including Form Recognizer Metrics Advisor Cognitive Search Immersive Reader Video Analyzer and Azure Bot Service Bot Framework and the Bot Framework Emulator will be explored in further detail and how they can be used in AI applications to improve their conversational user interfaces With Azure Machine Learning Studio you will also learn to incorporate machine learning into your enterprise level applications WHAT YOU WILL LEARN Get familiar with Azure AI Platform and the cognitive capabilities of Azure Learn to create apps that can process photos detect faces and detect objects Utilize OCR handwriting recognition and spatial analysis in your development Learn about Azure AI services like Form Recognizer Metrics Advisor Cognitive Search Azure Immersive Reader and Video Analyzer Try out several NLP applications with the Azure BOT framework WHO THIS BOOK IS FOR This book teaches AI developers machine learning engineers NET developers and architects how to swiftly develop intelligent applications utilizing the Azure AI Platform Knowledge of NET or NET Core is strongly advised to get the most out of the book TABLE OF CONTENTS 1 Azure AI Platform and Services 2

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The Beginner's Guide to Data Science Robert Ball, Brian Rague, 2022-11-15 This book discusses the principles and practical applications of data science addressing key topics including data wrangling statistics machine learning data visualization natural language processing and time series analysis Detailed investigations of techniques used in the implementation of recommendation engines and the proper selection of metrics for distance based analysis are also covered Utilizing numerous comprehensive code examples figures and tables to help clarify and illuminate essential data science topics the authors provide an extensive treatment and analysis of real world questions focusing especially on the task of determining and assessing answers to these questions as expeditiously and precisely as possible This book addresses the challenges related to uncovering the actionable insights in big data leveraging database and data collection tools such as web scraping and text identification This book is organized as 11 chapters structured as independent treatments of the following crucial data science topics Data gathering and acquisition techniques including data creation Managing transforming and organizing data to ultimately package the information into an accessible format ready for analysis Fundamentals of descriptive statistics intended to summarize and aggregate data into a few concise but meaningful measurements Inferential statistics that allow us to infer or generalize trends about the larger population based only on the sample portion collected and recorded Metrics that measure some quantity such as distance similarity or error and which are especially useful when comparing one or more data observations Recommendation engines representing a set of algorithms designed to predict or recommend a particular product service or other item of interest a user or customer wishes to buy or utilize in some manner Machine learning implementations and associated algorithms comprising core data science technologies with many practical applications especially predictive analytics Natural Language Processing which expedites the parsing and comprehension of written and spoken language in an effective and accurate manner Time series analysis techniques to examine and generate forecasts about the progress and evolution of data over time Data science provides the methodology and tools to accurately interpret an increasing volume of incoming information in order to discern patterns evaluate trends and make the right decisions The results of data science analysis provide real world answers to real world questions Professionals working on data science and business intelligence projects as well as advanced level students and researchers focused on data science computer science business and mathematics programs will benefit from this book

SQL Daniel Bell, 2019-05-09 This unique introductory SQL tutorial provides easy to understand SQL instructions and allows you to practice what you are learning by using examples in each chapter After reading this easy guide you will create your own unique tables and perform selects inserts

updates deletes and drops on your tables Enjoy your reading Get your copy now Book Objectives The following are the objectives of this book To help you understand SQL Structured Query Language in detail To help you transition from SQL Beginner to a Professional To help you understand how to use SQL for storage manipulation and retrieval of data in various relational database management systems Who this Book is for The author targets the following groups of people Anybody who is a complete beginner to SQL Anybody in need of advancing their SQL skills Professionals in data science and computer programming Professors lecturers or tutors who are looking to find better ways to explain SQL programming to their students in the simplest and easiest way Students and academicians especially those focusing on SQL programming computer science and Databases development What do you need for this Book Your computer should be installed with the following A database management system such as MySQL or SQL Server XAMPP or WampServer What is inside the book GETTING STARTED WITH SQL CREATING A DATABASE CREATING TABLES SQL CONSTRAINTS SELECT DELETING RECORDS SQL JOINS DATE AND TIME SQL UNIONS MYSQL TRANSACTIONS SQL VIEWS TEMPORARY TABLES CLONING TABLES SQL SUBQUERIES SEQUENCES SQL ALIASES SQL INJECTION From the back cover This guide is a complete introduction to SQL with concise and practical examples in each chapter It covers the essentials for working with SQL By building a database that is used throughout the book it becomes easier to grasp the concepts by working with the same data throughout instead of wasting time trying to comprehend the schema before looking at the problem itself The book is a quick and an easy read It can be completed in one week After reading it you will be ready to design your database The book has been grouped into chapters with each chapter exploring a different feature of SQL The author has provided SQL codes each code performing a different task Corresponding explanations have also been provided alongside each piece of code to help the reader understand the meaning of the various lines of the code Besides this screenshots showing the output that each code should return have been given The author has used a simple language to make it easy even for beginners to understand

SQL Expertise Ryan Campbell,2024-05-18 Unleash the Power of SQL with Ryan Campbell s All Inclusive Double Whammy Data is the new gold and SQL is your pickaxe In an age where every click like and share translates into valuable data the ability to effectively manage and manipulate this data is paramount Enter the world of SQL where the vastness of databases becomes as navigable as your favorite novel But where to start Ryan Campbell a luminary in the programming world has crafted an indispensable 2 in 1 guide that will catapult you from a novice to an SQL maestro Book 1 Master SQL Begin your journey with a comprehensive interactive deep dive that s perfect for beginners Start from the very foundation and Grasp the basics of databases and SQL syntax Engage with interactive exercises to solidify your understanding Witness real world examples that provide context and clarity Book 2 SQL Made Easy For those who ve wet their feet and are ready to plunge into the deeper end Discover advanced SQL operations that supercharge your data handling Unlock pro tips and tricks that even seasoned programmers covet Navigate complex datasets with finesse and

confidence Why Choose This Book Comprehensive Covers both foundational and advanced topics Practical Filled with exercises examples and real world scenarios Expertise Benefit from Ryan s years of experience and insights Versatile Whether you re starting out or leveling up this book caters to all In the vast ocean of SQL guides on the Kindle store SQL Expertise stands out as the beacon for genuine learners For those hungry to wield the power of data Ryan offers not just information but transformation Dive in now and make SQL your second language Be the data guru everyone s searching for on their next big project

A Quick Way to Learn Python: The Step-by-Step Guide to Learn PyQt and Database Applications Vivian Siahaan,Rismon Hasiholan Sianipar,2019-11-30 This book is designed to introduce programmers to programming and computational thinking through the lens of exploring database This book offers Python programmers one place to look when they need help guiding to Python as one of the fastest growing computer languages including Web and Internet applications This clear and concise introduction to the Python language is aimed at readers who are already familiar with programming in at least one language This hands on book introduces the essential topic of coding and the Python computer language to beginners and pogrammers of all ages This book explains relational theory in practice and demonstrates through two projects how you can apply it to your use of MariaDB and SQL Server databases This book covers the important requirements of teaching databases with a practical and progressive perspective This book offers the straightforward practical answers you need to help you do your job This hands on tutorial reference guide to MariaDB and SQL Server is not only perfect for students and beginners but it also works for experienced developers who aren t getting the most from both databases In designing a GUI and as an IDE you will make use Qt Designer In the first chapter you will learn to use several widgets in PyQt5 Display a welcome message Use the Radio Button widget Grouping radio buttons Displays options in the form of a check box and Display two groups of check boxes In chapter two you will learn to use the following topics Using Signal Slot Editor Copy and place text from one Line Edit widget to another Convert data types and make a simple calculator Use the Spin Box widget Use scrollbars and sliders Using the Widget List Select a number of list items from one Widget List and display them on another Widget List widget Add items to the Widget List Perform operations on the Widget List Use the Combo Box widget Displays data selected by the user from the Calendar Widget Creating a hotel reservation application and Display tabular data using Table Widgets In chapter three you will learn How to create the initial three tables project in the School database Teacher Class and Subject tables How to create database configuration files How to create a Python GUI for inserting and editing tables How to create a Python GUI to join and query the three tables In chapter four you will learn how to Create a main form to connect all forms Create a project will add three more tables to the school database Student Parent and Tuition tables Create a Python GUI for inserting and editing tables Create a Python GUI to join and query over the three tables In chapter five you will join the six classes Teacher TClass Subject Student Parent and Tuition and make queries over those tables In chapter six you will create dan configure database In this chapter you will

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The Official Dice Technology Job Search Guide Dice Inc.,2007-07-30 Intended to complement content on the Dice Web site this unique career guide is essential reading if you are seeking a better job changing jobs or looking for your first job It provides you with real world sample resumes interview dialogue and helpful career resources as well as invaluable advice on how you can set yourself about the task of applying for high competition positions You ll also learn realistic salary expectations for tech jobs and the importance of certifications among other vital topics **SQL Made Easy** Ryan Campbell,2024-05-17 Unveil the Power of Data with SQL Made Easy Tips and Tricks to Mastering SQL Programming Are you ready to embark on a data driven journey that transforms you into a SQL maestro Look no further Ryan Campbell s groundbreaking guide SQL Made Easy is here to ignite your passion for mastering SQL programming like never before Why This Book Imagine seamlessly navigating through complex databases effortlessly crafting queries that unveil invaluable insights With SQL Made Easy you ll dive headfirst into a world of structured data manipulation that empowers you to extract transform and analyze information with precision Uncomplicated Learning Ryan Campbell an industry veteran expertly guides you through the intricate web of SQL concepts Say goodbye to baffling jargon he breaks down even the most intricate concepts into digestible bites Whether you re a newbie or a seasoned programmer you ll appreciate the intuitive approach that makes learning SQL an enjoyable ride Unlock Secrets with Tips and Tricks SQL Made Easy isn t just about memorizing syntax it s about mastering SQL s artistry Uncover an arsenal of tips and tricks that elevate your efficiency from crafting elegant queries to optimizing performance Embark on a journey that transforms you into an SQL virtuoso Real World Applications Bored of theoretical tutorials SQL Made Easy is packed with real world examples that mirror the challenges you ll face in the field Whether you re managing large datasets or fine tuning queries for blazing speed these practical scenarios

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The Beginner's Guide to Learn Python GUI with MySQL and SQLite Vivian Siahaan, Rismon Hasiholan Sianipar, 2020-01-14 This book explains relational theory in practice and demonstrates through two projects how you can apply it to your use of MySQL and SQLite databases This book covers the important requirements of teaching databases with a practical and progressive perspective This book offers the straightforward practical answers you need to help you do your job This hands on tutorial reference guide to MySQL and SQLite is not only perfect for students and beginners but it also works for experienced developers who aren t getting the most from both databases In designing a GUI and as an IDE you will make use Qt Designer In the first chapter you will learn to use several widgets in PyQt5 Display a welcome message Use the Radio Button widget Grouping radio buttons Displays options in the form of a check box and Display two groups of check boxes In chapter two you will learn to use the following topics Using Signal Slot Editor Copy and place text from one Line Edit widget to another Convert data types and make a simple calculator Use the Spin Box widget Use scrollbars and sliders Using the Widget List Select a number of list items from one Widget List and display them on another Widget List widget Add items to the Widget List Perform operations on the Widget List Use the Combo Box widget Displays data selected by the user from the Calendar Widget Creating a hotel reservation application and Display tabular data using Table Widgets In chapter three you will learn How to create the initial three tables project in the School database Teacher Class and Subject tables How to create database configuration files How to create a Python GUI for inserting and editing tables How to create a Python GUI to join and query the three tables In chapter four you will learn how to Create a main form to connect all forms Create a project will add three more tables to the school database Student Parent and Tuition tables Create a Python GUI for inserting and editing tables Create a Python GUI to join and query over the three tables In chapter five you will join the six classes Teacher TClass Subject Student Parent and Tuition and make queries over those tables In chapter six you will create dan configure database In this chapter you will create Suspect table in crime database This table has eleven columns suspect_id primary key suspect_name birth_date case_date report_date suspect_status arrest_date mother_name address telephone and photo You

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Learning SQL Richard Earp, Sikha Bagui, 2002-05 A beginner's step by step tutorial that covers the basics of using SQL with exercises to reinforce the concepts explained in the book all key topics necessary to begin using SQL and Oracle

Practical SQL Anthony DeBarros, 2018-05-01 Practical SQL is an approachable and fast paced guide to SQL Structured Query Language the standard programming language for defining organizing and exploring data in relational databases The book focuses on using SQL to find the story your data tells with the popular open source database PostgreSQL and the pgAdmin interface as its primary tools You'll first cover the fundamentals of databases and the SQL language then build skills by analyzing data from the U S Census and other federal and state government agencies With exercises and real world examples in each chapter this book will teach even those who have never programmed before all the tools necessary to build powerful databases and access information quickly and efficiently You'll learn how to Create databases and related tables using your own data Define the right data types for your information Aggregate sort and filter data to find patterns Use basic math and advanced statistical functions Identify errors in data and clean them up Import and export data using delimited text files Write queries for geographic information systems GIS Create advanced queries and automate tasks Learning SQL doesn't have to be dry and complicated Practical SQL delivers clear examples with an easy to follow approach to teach you the tools you need to build and manage your own databases This book uses PostgreSQL but the SQL syntax is applicable to many database applications including Microsoft SQL Server and MySQL

Learning PostgreSQL 10 Salahaldin Juba, Andrey Volkov, 2017-12-01 Leverage the power of PostgreSQL 10 to build powerful database and data warehousing applications About This Book Be introduced to the concept of relational databases and PostgreSQL one of the fastest growing open source databases in the world Learn client side and server side programming in PostgreSQL and how to administer PostgreSQL databases Discover tips on implementing efficient database solutions with PostgreSQL 10 Who This Book Is For If you're interested in learning more about PostgreSQL one of the most popular relational databases in the world

then this book is for you Those looking to build solid database or data warehousing applications with PostgreSQL 10 will also find this book a useful resource No prior knowledge of database programming or administration is required to get started with this book

What You Will Learn Understand the fundamentals of relational databases relational algebra and data modeling Install a PostgreSQL cluster create a database and implement your data model Create tables and views define indexes and implement triggers stored procedures and other schema objects Use the Structured Query Language SQL to manipulate data in the database Implement business logic on the server side with triggers and stored procedures using PL/pgSQL Make use of advanced data types supported by PostgreSQL 10 Arrays hstore JSONB and others Develop OLAP database solutions using the most recent features of PostgreSQL 10 Connect your Python applications to a PostgreSQL database and work with the data efficiently Test your database code find bottlenecks improve performance and enhance the reliability of the database applications

In Detail PostgreSQL is one of the most popular open source databases in the world and supports the most advanced features included in SQL standards and beyond This book will familiarize you with the latest new features released in PostgreSQL 10 and get you up and running with building efficient PostgreSQL database solutions from scratch We ll start with the concepts of relational databases and their core principles Then you ll get a thorough introduction to PostgreSQL and the new features introduced in PostgreSQL 10 We ll cover the Data Definition Language DDL with an emphasis on PostgreSQL and the common DDL commands supported by ANSI SQL You ll learn to create tables define integrity constraints build indexes and set up views and other schema objects Moving on you ll get to know the concepts of Data Manipulation Language DML and PostgreSQL server side programming capabilities using PL/pgSQL This will give you a very robust background to develop tune test and troubleshoot your database application We ll also explore the NoSQL capabilities of PostgreSQL and connect to your PostgreSQL database to manipulate data objects By the end of this book you ll have a thorough understanding of the basics of PostgreSQL 10 and will have the necessary skills to build efficient database solutions

Style and approach This book is a comprehensive beginner level tutorial on PostgreSQL and introduces the features of the newest version 10 along with explanation of concepts in a very easy to understand manner Practical tips and examples are provided at every step to ensure you are able to grasp each topic as quickly as possible

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