

POSTGRESQL MANAGER

SALAHALDIN JUBA,ACHIM VANNAHME,ANDREY VOLKOV

 **BEGINNING DATABASES WITH POSTGRESQL** RICHARD STONES,NEIL MATTHEW,2006-11-03 *THE MOST UPDATED POSTGRESQL BOOK ON THE MARKET, COVERING VERSION 8.0 *HIGHLIGHTS THE MOST POPULAR POSTGRESQL APIS, INCLUDING C, PERL, PHP, AND JAVA *THIS IS TWO BOOKS IN ONE; IT SIMULTANEOUSLY COVERS KEY RELATIONAL DATABASE DESIGN PRINCIPLES, WHILE TEACHING POSTGRESQL

 **POSTGRESQL 10 ADMINISTRATION COOKBOOK** GIANNI CIOLLI,SIMON RIGGS,2018-05-18 A PRACTICAL GUIDE TO ADMINISTER, MONITOR AND REPLICATE YOUR POSTGRESQL 10 DATABASE KEY FEATURES GET TO GRIPS WITH THE CAPABILITIES OF POSTGRESQL 10 TO ADMINISTER YOUR DATABASE MORE EFFICIENTLY MONITOR, TUNE, SECURE AND PROTECT YOUR DATABASE FOR OPTIMAL PERFORMANCE A STEP-BY-STEP, RECIPE-BASED GUIDE TO HELP YOU TACKLE ANY PROBLEM IN POSTGRESQL 10 ADMINISTRATION WITH EASE BOOK DESCRIPTION POSTGRESQL IS A POWERFUL, OPEN SOURCE DATABASE MANAGEMENT SYSTEM WITH AN ENVIABLE REPUTATION FOR HIGH PERFORMANCE AND STABILITY. WITH MANY NEW FEATURES IN ITS ARSENAL, POSTGRESQL 10 ALLOWS USERS TO SCALE UP THEIR POSTGRESQL INFRASTRUCTURE. THIS BOOK TAKES A STEP-BY-STEP, RECIPE-BASED APPROACH TO EFFECTIVE POSTGRESQL ADMINISTRATION. THROUGHOUT THIS BOOK, YOU WILL BE INTRODUCED TO THESE NEW FEATURES SUCH AS LOGICAL REPLICATION, NATIVE TABLE PARTITIONING, ADDITIONAL QUERY PARALLELISM, AND MUCH MORE. YOU WILL LEARN HOW TO TACKLE A VARIETY OF PROBLEMS THAT ARE BASICALLY THE PAIN POINTS FOR ANY DATABASE ADMINISTRATOR - FROM CREATING TABLES TO MANAGING VIEWS, FROM IMPROVING PERFORMANCE TO SECURING YOUR DATABASE. MORE IMPORTANTLY, THE BOOK PAYS SPECIAL ATTENTION TO TOPICS SUCH AS MONITORING ROLES, BACKUP, AND RECOVERY OF YOUR POSTGRESQL 10 DATABASE, ENSURING HIGH AVAILABILITY, CONCURRENCY, AND REPLICATION. BY THE END OF THIS BOOK, YOU WILL KNOW EVERYTHING YOU NEED TO KNOW TO BE THE GO-TO POSTGRESQL EXPERT IN YOUR ORGANIZATION. WHAT YOU WILL LEARN GET TO GRIPS WITH THE NEWLY RELEASED POSTGRESQL 10 FEATURES TO IMPROVE DATABASE PERFORMANCE AND RELIABILITY MANAGE OPEN SOURCE POSTGRESQL VERSIONS 10 ON VARIOUS PLATFORMS. EXPLORE BEST PRACTICES FOR PLANNING AND DESIGNING LIVE DATABASES SELECT AND IMPLEMENT ROBUST BACKUP AND RECOVERY TECHNIQUES IN POSTGRESQL 10 EXPLORE CONCISE AND CLEAR GUIDANCE ON REPLICATION AND HIGH AVAILABILITY DISCOVER ADVANCED TECHNICAL TIPS FOR EXPERIENCED USERS WHO THIS BOOK IS FOR THIS BOOK IS FOR DATABASE ADMINISTRATORS, DATA ARCHITECTS, DEVELOPERS, OR ANYONE WITH AN INTEREST IN PLANNING FOR, OR RUNNING, LIVE PRODUCTION DATABASES USING POSTGRESQL. IT IS MOST SUITED TO THOSE LOOKING FOR HANDS-ON SOLUTIONS TO ANY PROBLEM ASSOCIATED WITH POSTGRESQL ADMINISTRATION.

 **THE ULTIMATE GUIDE TO PROFESSIONAL DATABASE PROGRAMMING WITH PYTHON AND POSTGRESQL** VIVIAN SIAHAAN,RISMON HASIHOLOAN SIANIPAR,2019-01-15 PYTHON HAS VARIOUS DATABASE DRIVERS FOR POSTGRESQL. CURRENTLY, THE PSYCOPG IS THE MOST POPULAR POSTGRESQL DATABASE ADAPTER FOR THE PYTHON LANGUAGE. THE PSYCOPG FULLY IMPLEMENTS THE PYTHON DB-API 2.0 SPECIFICATION. THE CURRENT VERSION OF THE PSYCOPG IS 2 OR PSYCOPG2. THE PSYCOPG2 DATABASE ADAPTER IMPLEMENTED IN C AS A LIBPQ WRAPPER RESULTING IN BOTH FAST AND SECURE. THE PSYCOPG2 PROVIDES MANY USEFUL FEATURES SUCH AS CLIENT-SIDE AND SERVER-SIDE CURSORS, ASYNCHRONOUS NOTIFICATION AND COMMUNICATION, COPY COMMAND SUPPORT, ETC. POSTGRESQL WAS DESIGNED TO RUN ON UNIX-LIKE PLATFORMS. HOWEVER, POSTGRESQL WAS THEN ALSO DESIGNED TO BE PORTABLE SO THAT IT COULD RUN ON VARIOUS PLATFORMS SUCH AS MAC OS X, SOLARIS, AND WINDOWS. POSTGRESQL IS FREE AND OPEN SOURCE SOFTWARE. ITS SOURCE CODE IS AVAILABLE UNDER POSTGRESQL LICENSE, A LIBERAL OPEN SOURCE LICENSE. YOU ARE FREE TO USE, MODIFY AND DISTRIBUTE POSTGRESQL IN ANY FORM. POSTGRESQL REQUIRES VERY MINIMUM MAINTAINED EFFORTS BECAUSE OF ITS STABILITY. THEREFORE, IF YOU DEVELOP APPLICATIONS BASED ON POSTGRESQL, THE TOTAL COST OF OWNERSHIP IS LOW IN COMPARISON WITH OTHER DATABASE MANAGEMENT SYSTEMS. IN CHAPTER 2, 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 3, YOU WILL LEARN MANAGING TABLE STRUCTURE AND VIEWS INCLUDING POSTGRESQL DATA TYPES, POSTGRESQL CREATE TABLE, POSTGRESQL SELECT INTO STATEMENT, POSTGRESQL CREATE TABLE AS, USING POSTGRESQL SERIAL TO CREATE AUTO-INCREMENT COLUMN, IDENTITY COLUMN, ALTER TABLE, DROP TABLE, TRUNCATE TABLE, CHECK CONSTRAINT, NOT-NULL CONSTRAINT, FOREIGN KEY, PRIMARY KEY, UNIQUE CONSTRAINT, MANAGING POSTGRESQL VIEWS, CREATING UPDATABLE VIEWS, MATERIALIZED VIEWS, CREATING UPDATABLE VIEWS USING THE WITH CHECK OPTION CLAUSE, AND RECURSIVE VIEW. IN CHAPTER 4, YOU WILL LEARN STATEMENTS, OPERATORS, AND CLAUSES INCLUDING SELECT, ORDER BY, SELECT DISTINCT, LIMIT, FETCH, IN, BETWEEN, POSTGRESQL LIKE, IS NULL, ALIAS, JOINS, INNER JOIN, POSTGRESQL LEFT JOIN, SELF-JOIN, FULL OUTER JOIN, CROSS JOIN, NATURAL JOIN, GROUP BY, HAVING, INTERSECT OPERATOR, EXCEPT OPERATOR, GROUPING SETS, CUBE, AND ROLLUP. IN CHAPTER 5, YOU WILL LEARN POSTGRESQL TRIGGER, AGGREGATE, AND STRING FUNCTIONS INCLUDING CREATING THE FIRST TRIGGER IN POSTGRESQL, MANAGING POSTGRESQL TRIGGER, AGGREGATE FUNCTIONS, AVG FUNCTION, MAX FUNCTION, MIN FUNCTION, SUM FUNCTION, POSTGRESQL CONCAT FUNCTION, ASCII FUNCTION, TRIM FUNCTION, LENGTH FUNCTION, SUBSTRING FUNCTION, REGEXP_MATCHES FUNCTION, REGEXP_REPLACE FUNCTION, REPLACE FUNCTION, TO_NUMBER FUNCTION, AND TO_CHAR FUNCTION.

 **DEVELOPING MODERN DATABASE APPLICATIONS WITH POSTGRESQL** DR. QUAN HA LE,MARCELO DIAZ,2021-08-13 GET UP TO SPEED WITH CORE POSTGRESQL TASKS SUCH AS DATABASE ADMINISTRATION, APPLICATION DEVELOPMENT, DATABASE PERFORMANCE MONITORING, AND DATABASE TESTING KEY FEATURESBUILD REAL-WORLD ENTERPRISE DATABASE MANAGEMENT SYSTEMS USING POSTGRES 12 FEATURESEXPLORE THE DEVELOPMENT, ADMINISTRATIVE AND SECURITY ASPECTS OF POSTGRESQL 12IMPLEMENT BEST PRACTICES FROM INDUSTRY EXPERTS TO BUILD POWERFUL DATABASE APPLICATIONSBOOK DESCRIPTION POSTGRESQL IS AN OPEN-SOURCE OBJECT-RELATIONAL DATABASE MANAGEMENT SYSTEM (DBMS) THAT PROVIDES ENTERPRISE-LEVEL SERVICES, INCLUDING HIGH PERFORMANCE AND SCALABILITY. THIS BOOK IS A COLLECTION OF UNIQUE PROJECTS PROVIDING YOU WITH A WEALTH OF INFORMATION RELATING TO ADMINISTERING, MONITORING, AND TESTING POSTGRESQL. THE FOCUS OF EACH PROJECT IS ON BOTH THE DEVELOPMENT AND THE ADMINISTRATIVE ASPECTS OF POSTGRESQL. STARTING BY EXPLORING DEVELOPMENT ASPECTS SUCH AS DATABASE DESIGN AND ITS IMPLEMENTATION, YOU’LL THEN COVER POSTGRESQL ADMINISTRATION BY UNDERSTANDING POSTGRESQL ARCHITECTURE, POSTGRESQL PERFORMANCE, AND HIGH-AVAILABILITY CLUSTERS. VARIOUS POSTGRESQL PROJECTS ARE EXPLAINED THROUGH CURRENT TECHNOLOGIES SUCH AS DEVOPS AND CLOUD PLATFORMS USING PROGRAMMING LANGUAGES LIKE PYTHON AND NODE.JS. LATER, YOU’LL GET TO GRIPS WITH THE WELL-KNOWN DATABASE API TOOL, POSTGRES, BEFORE LEARNING HOW TO USE POPULAR POSTGRESQL DATABASE TESTING FRAMEWORKS. THE BOOK IS ALSO PACKED WITH ESSENTIAL TIPS AND TRICKS AND COMMON PATTERNS FOR WORKING SEAMLESSLY IN A PRODUCTION ENVIRONMENT. ALL THE CHAPTERS WILL BE EXPLAINED WITH THE HELP OF A REAL-WORLD CASE STUDY ON A SMALL BANKING APPLICATION FOR MANAGING ATM LOCATIONS IN A CITY. BY THE END OF THIS DBMS BOOK, YOU’LL BE PROFICIENT IN BUILDING RELIABLE DATABASE SOLUTIONS AS PER YOUR ORGANIZATION’S NEEDS. WHAT YOU WILL LEARNSET UP HIGH AVAILABILITY POSTGRESQL DATABASE CLUSTERS IN THE SAME CONTAINMENT, A CROSS-CONTAINMENT, AND ON THE CLOUDMONITOR THE PERFORMANCE OF A POSTGRESQL DATABASECREATE AUTOMATED UNIT TESTS AND IMPLEMENT TEST-DRIVEN DEVELOPMENT FOR A POSTGRESQL DATABASEDEVELOP POSTGRESQL APPS ON CLOUD PLATFORMS USING DEVOPS WITH PYTHON AND NODE.JSWRITE ROBUST APIS FOR POSTGRESQL DATABASES USING PYTHON PROGRAMMING, NODE.JS, AND POSTGRESCREATE A GEOSPATIAL DATABASE USING POSTGIS AND POSTGRESQLIMPLEMENT AUTOMATIC CONFIGURATION BY ANSIBLE AND TERRAFORM FOR POSTGRESWHO THIS BOOK IS FOR THIS POSTGRESQL BOOK IS FOR DATABASE DEVELOPERS, DATABASE ADMINISTRATORS, DATA ARCHITECTS, OR ANYONE WHO WANTS TO BUILD END-TO-END DATABASE PROJECTS USING POSTGRES. THIS BOOK WILL ALSO APPEAL TO SOFTWARE ENGINEERS, IT TECHNICIANS, COMPUTER SCIENCE RESEARCHERS, AND UNIVERSITY STUDENTS WHO ARE INTERESTED IN DATABASE DEVELOPMENT AND ADMINISTRATION. SOME FAMILIARITY WITH POSTGRESQL AND LINUX IS REQUIRED TO GRASP THE CONCEPTS COVERED IN THE BOOK EFFECTIVELY.

 **POSTGRESQL FOR JAVA GUI: DATABASE AND IMAGE PROCESSING** VIVIAN SIAHAAN,RISMON HASIHOLOAN SIANIPAR,2019-08-27 IN THIS BOOK, YOU WILL LEARN HOW TO BUILD FROM SCRATCH A CRIMINAL RECORDS MANAGEMENT DATABASE SYSTEM USING JAVA/POSTGRESQL. ALL JAVA CODE FOR DIGITAL IMAGE PROCESSING IN THIS BOOK IS NATIVE JAVA. INTENTIONALLY NOT TO RELY ON EXTERNAL LIBRARIES, SO THAT READERS KNOW IN DETAIL THE PROCESS OF EXTRACTING DIGITAL IMAGES FROM SCRATCH IN JAVA. THERE ARE ONLY THREE EXTERNAL LIBRARIES USED IN THIS BOOK: CONNECTOR / J TO FACILITATE JAVA TO MYSQL CONNECTIONS, JCALENDAR TO DISPLAY CALENDAR CONTROLS, AND JFREECHART TO DISPLAY GRAPHICS. DIGITAL IMAGE TECHNIQUES TO EXTRACT IMAGE FEATURES USED IN THIS BOOK ARE GRASCALING, SHARPENING, INVERTERING, BLURRING, DILATION, EROSION, CLOSING, OPENING, VERTICAL PREWITT, HORIZONTAL PREWITT, LAPLACIAN, HORIZONTAL SOBEL, AND VERTICAL SOBEL. FOR READERS, YOU CAN DEVELOP IT TO STORE OTHER ADVANCED IMAGE FEATURES BASED ON DESCRIPTORS SUCH AS SIFT AND OTHERS FOR DEVELOPING DESCRIPTOR BASED MATCHING. IN THE FIRST CHAPTER, YOU WILL LEARN: HOW TO INSTALL NETBEANS, JDK 11, AND THE POSTGRESQL CONNECTOR; HOW TO INTEGRATE EXTERNAL LIBRARIES INTO PROJECTS; HOW THE BASIC POSTGRESQL COMMANDS ARE USED; HOW TO QUERY STATEMENTS TO CREATE DATABASES, CREATE TABLES, FILL TABLES, AND MANIPULATE TABLE CONTENTS IS DONE.IN THE FIRST CHAPTER, YOU WILL LEARN: HOW TO INSTALL NETBEANS, JDK 11, AND THE POSTGRESQL CONNECTOR; HOW TO INTEGRATE EXTERNAL LIBRARIES INTO PROJECTS; HOW THE BASIC POSTGRESQL COMMANDS ARE USED; HOW TO QUERY STATEMENTS TO CREATE DATABASES, CREATE TABLES, FILL TABLES, AND MANIPULATE TABLE CONTENTS IS DONE. IN THE SECOND CHAPTER, YOU WILL LEARN QUERYING DATA FROM THE POSTGRESQL USING JDBC 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 JDBC, UPDATING DATA IN POSTGRESQL DATABASE USING JDBC, CALLING POSTGRESQL STORED FUNCTION USING JDBC, DELETING DATA FROM A POSTGRESQL TABLE USING JDBC, AND POSTGRESQL JDBC TRANSACTION. IN THIRD CHAPTER, YOU WILL BE TAUGHT HOW TO EXTRACT IMAGE FEATURES, UTILIZING BUFFEREDIMAGE CLASS, IN JAVA GUI. IN THE FOURTH CHAPTER, YOU WILL BE TAUGHT HOW TO CREATE CRIME DATABASE AND ITS TABLES. IN THE FIFTH CHAPTER, YOU WILL BE TAUGHT TO CREATE JAVA GUI TO VIEW, EDIT, INSERT, AND DELETE SUSPECT TABLE DATA. 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. IN THE SIXTH CHAPTER, YOU WILL BE TAUGHT TO CREATE JAVA GUI TO VIEW, EDIT, INSERT, AND DELETE FEATURE_EXTRACTION TABLE DATA. THIS TABLE HAS EIGHT COLUMNS: FEATURE_ID (PRIMARY KEY), SUSPECT_ID (FOREIGN KEY), FEATURE1, FEATURE2, FEATURE3, FEATURE4, FEATURE5, AND FEATURE6. ALL SIX FIELDS (EXCEPT KEYS) WILL HAVE A BLOB DATA TYPE, SO THAT THE IMAGE OF THE FEATURE WILL BE DIRECTLY SAVED INTO THIS TABLE. IN THE SEVENTH CHAPTER, YOU WILL ADD TWO TABLES: POLICE_STATION AND INVESTIGATOR. THESE TWO TABLES WILL LATER BE JOINED TO SUSPECT TABLE THROUGH ANOTHER TABLE, FILE_CASE, WHICH WILL BE BUILT IN THE SEVENTH CHAPTER. THE POLICE_STATION HAS SIX COLUMNS: POLICE_STATION_ID (PRIMARY KEY), LOCATION, CITY, PROVINCE, TELEPHONE, AND PHOTO. THE INVESTIGATOR HAS EIGHT COLUMNS: INVESTIGATOR_ID (PRIMARY KEY), INVESTIGATOR_NAME, RANK, BIRTH_DATE, GENDER, ADDRESS, TELEPHONE, AND PHOTO. HERE, YOU WILL DESIGN A JAVA GUI TO DISPLAY, EDIT, FILL, AND DELETE DATA IN BOTH TABLES. IN THE EIGHTH CHAPTER, YOU WILL ADD TWO TABLES: VICTIM AND FILE_CASE. THE FILE_CASE TABLE WILL CONNECT FOUR OTHER TABLES: SUSPECT, POLICE_STATION, INVESTIGATOR AND VICTIM. THE VICTIM TABLE HAS NINE COLUMNS: VICTIM_ID (PRIMARY KEY), VICTIM_NAME, CRIME_TYPE, BIRTH_DATE, CRIME_DATE, GENDER, ADDRESS, TELEPHONE, AND PHOTO. THE FILE_CASE HAS SEVEN COLUMNS: FILE_CASE_ID (PRIMARY KEY), SUSPECT_ID (FOREIGN KEY), POLICE_STATION_ID (FOREIGN KEY), INVESTIGATOR_ID (FOREIGN KEY), VICTIM_ID (FOREIGN KEY), STATUS, AND DESCRIPTION. HERE, YOU WILL ALSO DESIGN A JAVA GUI TO DISPLAY, EDIT, FILL, AND DELETE DATA IN BOTH TABLES. FINALLY, THIS BOOK IS HOPEFULLY USEFUL FOR YOU.

 **POSTGRESQL 15 COOKBOOK** MOHAMMAD SAMSAH HUSSAIN,2024-03-15 LEVEL UP DATABASE ADMINISTRATION WITH POSTGRESQL 15 RECIPES FOR MASTERY KEY FEATURES EXPLORE POSTGRESQL 15 THROUGH 100 PLUS PRACTICAL RECIPES, GAINING EXPERTISE IN MONITORING, LOGGING, AND MIGRATION.  MASTER CLOUD SETUP, SCALING, AND POSTGRESQL

15 RESOURCE MANAGEMENT IN THE CLOUD. [\[2\]](#) ENHANCE DATABASE EFFICIENCY, STREAMLINE BACKUP, AND RECOVERY FOR ADMINISTRATION. DESCRIPTION PostgreSQL 15 is a powerful, open-source database system known for its reliability, flexibility, and advanced features. It stores and manages data efficiently, making it ideal for everything from personal projects to large-scale applications. Get started with installation, configuration, and user management. Learn the basics of tables, views, and functions. Deploy your database securely on AWS, migrate seamlessly from other systems, and explore replication for high availability. Write efficient SQL queries, optimize performance, and safeguard your information with backups and recovery techniques. Control user access, implement robust security measures, and monitor your database health for proactive troubleshooting. Solve common errors and optimize performance, practical tips and real-world scenarios provide a hands-on learning experience, making it easy to apply new knowledge. By the end of this book, you will have the confidence and skills to manage data like a pro, tackle challenges with ease, and unleash the full potential of PostgreSQL 15. WHAT YOU WILL LEARN [\[2\]](#) To setup, configure, and manage users with expertise. [\[2\]](#) Scale your database to the cloud securely and migrate seamlessly. [\[2\]](#) Protect your data, recover from unexpected events. [\[2\]](#) Control access, implement robust security measures, and monitor your database's health. [\[2\]](#) Troubleshooting, problem-solving, and fixing common errors. WHO THIS BOOK IS FOR This book is for aspiring students, IT professionals, database administrators, and solution architects looking to enhance their database management skills. TABLE OF CONTENTS 1. Up and running with PostgreSQL 15 2. Database hierarchy 3. Cloud provisioning 4. Migration 5. Transaction log 6. Partitioning and sharding 7. Replication and high availability 8. Leveraging SQL 9. Server controls and auditing 10. Backup 11. Recovery 12. Monitoring and diagnosis 13. Troubleshooting

[\[2\]](#) **PostgreSQL 14 Administration Cookbook** Simon Riggs, Gianni Ciolli, 2022-03-31 Administer, monitor, and replicate your PostgreSQL 14 database for efficient database management and maintenance Key Features Troubleshoot and tackle any administration and management problems in PostgreSQL 14 Find expert techniques for monitoring, fine-tuning, and securing your database Adopt efficient replication for high availability with PostgreSQL 14 Book Description PostgreSQL is a powerful, open-source database management system with an enviable reputation for high performance and stability. With many new features in its arsenal, PostgreSQL 14 allows you to scale up your PostgreSQL infrastructure. With this book, you'll take a step-by-step, recipe-based approach to effective PostgreSQL administration. This book will get you up and running with all the latest features of PostgreSQL 14 while helping you explore the entire database ecosystem. You'll learn how to tackle a variety of problems and pain points you may face as a database administrator such as creating tables, managing views, improving performance, and securing your database. As you make progress, the book will draw attention to important topics such as monitoring roles, validating backups, regular maintenance, and recovery of your PostgreSQL 14 database. This will help you understand roles, ensuring high availability, concurrency, and replication. Along with updated recipes, this book touches upon important areas like using generated columns, TOAST compression, PostgreSQL on the cloud, and much more. By the end of this PostgreSQL book, you'll have gained the knowledge you need to manage your PostgreSQL 14 database efficiently, both in the cloud and on-premise. WHAT YOU WILL LEARN Plan, manage, and maintain PostgreSQL databases in production Work with the newly introduced features of PostgreSQL 14 Use pgAdmin or OmniDB to perform database administrator (DBA) tasks Use psql to write accurate and repeatable scripts Understand how to tackle real-world data issues with the help of examples Select and implement robust backup and recovery techniques in PostgreSQL 14 Deploy best practices for planning and designing live databases Who this book is for This Postgres 14 book is for database administrators, data architects, database developers, and anyone with an interest in planning and running live production databases using PostgreSQL 14. Those looking for hands-on solutions to any problem associated with PostgreSQL 14 administration will also find this book useful. Some experience with handling PostgreSQL databases will help you to make the most out of this book, however, it is a useful resource even if you are just beginning your Postgres journey.

[\[2\]](#) **PostgreSQL** Korry Douglas, Susan Douglas, 2003 PostgreSQL leads users through the internals of an open-source database. Throughout the book are explanations of data structures and algorithms, each backed by a concrete example from the actual source code. Each section contains information about performance implications, debugging techniques, and pointers to more information (on the Web and in book form).

[\[2\]](#) **Step By Step Database Programming With JDBC and PostgreSQL** Vivian Siahaan, Rismon Hasiholan Sianipar, 2019-04-08 PostgreSQL was designed to run on UNIX-like platforms. However, PostgreSQL was then also designed to be portable so that it could run on various platforms such as Mac OS X, Solaris, and Windows. PostgreSQL is free and open source software. Its source code is available under PostgreSQL license, a liberal open source license. You are free to use, modify and distribute PostgreSQL in any form. PostgreSQL requires very minimum maintained efforts because of its stability. Therefore, if you develop applications based on PostgreSQL, the total cost of ownership is low in comparison with other database management systems. In Chapter 2, you will learn querying data from the PostgreSQL using JDBC 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 JDBC, updating data in PostgreSQL database using JDBC, calling PostgreSQL stored function using JDBC, deleting data from a PostgreSQL table using JDBC, and PostgreSQL JDBC transaction. In Chapter 3, you will learn managing table structure and views including PostgreSQL data types, PostgreSQL create table, PostgreSQL select into statement, PostgreSQL create table as, using PostgreSQL serial to create auto-increment column, identity column, alter table, drop table, truncate table, check constraint, not-null constraint, foreign key, primary key, unique constraint, managing PostgreSQL views, creating updatable views, materialized views, creating updatable views using the with check option clause, and recursive view. In Chapter 4, you will learn statements, operators, and clauses including select, order by, select distinct, limit, fetch, in, between, PostgreSQL like, is null, alias, joins, inner join, PostgreSQL left join, self-join, full outer join, cross join, natural join, group by, having, intersect operator, except operator, grouping sets, cube, and rollup. In Chapter 5, you will learn PostgreSQL trigger, aggregate, and string functions including creating the first trigger in PostgreSQL, managing PostgreSQL trigger, aggregate functions, avg function, max function, min function, sum function, PostgreSQL concat function, ascii function, trim function, length function, substring function, regexp_matches function, regexp_replace function, replace function, to_number function, and to_char function.

[\[2\]](#) **Mastering PostgreSQL 13** Hans-Jürgen Schmitt, 2020-11-13 Explore expert techniques such as advanced indexing and high availability to build scalable, reliable, and fault-tolerant database applications using PostgreSQL 13 Key Features Master advanced PostgreSQL 13 concepts with the help of real-world datasets and examples Leverage PostgreSQL's indexing features to fine-tune the performance of your queries Extend PostgreSQL's functionalities to suit your organization's needs with minimal effort Book Description Thanks to its reliability, robustness, and high performance, PostgreSQL has become one of the most advanced open source databases on the market. This updated fourth edition will help you understand PostgreSQL administration and how to build dynamic database solutions for enterprise apps with the latest release of PostgreSQL, including designing both physical and technical aspects of the system architecture with ease. Starting with an introduction to the new features in PostgreSQL 13, this book will guide you in building efficient and fault-tolerant PostgreSQL apps. You'll explore advanced PostgreSQL features, such as logical replication, database clusters, performance tuning, advanced indexing, monitoring, and user management, to manage and maintain your database. You'll then work with the PostgreSQL optimizer, configure PostgreSQL for high speed, and move from Oracle to PostgreSQL. The book also covers transactions, locking, and indexes, and shows you how to improve performance with query optimization. You'll also focus on how to manage network security and work with backups and replication while exploring useful PostgreSQL extensions that optimize the performance of large databases. By the end of this PostgreSQL book, you'll be able to get the most out of your database by executing advanced administrative tasks. WHAT YOU WILL LEARN Get well versed with advanced SQL functions in PostgreSQL 13 Get to grips with administrative tasks such as log file management and monitoring Work with stored procedures and manage backup and recovery Employ replication and failover techniques to reduce data loss Perform database migration from Oracle to PostgreSQL with ease Replicate PostgreSQL database systems to create backups and scale your database Manage and improve server security to protect your data Troubleshoot your PostgreSQL instance to find solutions to common and not-so-common problems Who this book is for This database administration book is for PostgreSQL developers and database administrators and professionals who want to implement advanced functionalities and master complex administrative tasks with PostgreSQL 13. Prior experience in PostgreSQL and familiarity with the basics of database administration will assist with understanding key concepts covered in the book.

[\[2\]](#) **PostgreSQL Administration Cookbook, 9.5/9.6 Edition** Simon Riggs, Gianni Ciolli, Gabriele Bartolini, 2017-04-27 Over 150 recipes to help you administer your PostgreSQL database more efficiently About This Book Get to grips with the capabilities of PostgreSQL 9.6 to administer your database more efficiently Monitor, tune, secure and protect your database A step-by-step, recipe-based guide to help you tackle any problem in PostgreSQL administration with ease Who This Book Is For This book is for system administrators, database administrators, data architects, developers, and anyone with an interest in planning for, or running, live production databases. This book is most suited to those who have some technical experience. WHAT YOU WILL LEARN Implement PostgreSQL features for performance and reliability Harness the power of the latest PostgreSQL 9.6 features Manage open source PostgreSQL versions 9.5 and 9.6 on various platforms Discover advanced technical tips for experienced users Explore best practices for planning and designing live databases Select and implement robust backup and recovery techniques Explore concise and clear guidance on replication and high availability See the latest details on logical replication and bi-directional replication In detail PostgreSQL is a powerful opensource database management system; now recognized as the expert's choice for a wide range of applications, it has an enviable reputation for performance and stability. PostgreSQL provides an integrated feature set comprising relational database features, object-relational, text search, geographical info systems, analytical tools for big data and JSON/XML document management. Starting with short and simple recipes, you will soon dive into core features, such as configuration, server control, tables, and data. You will tackle a variety of problems a database administrator usually encounters, from creating tables to managing views, from improving performance to securing your database, and from using monitoring tools to using storage engines. Recipes based on important topics such as high availability, concurrency, replication, backup and recovery, as well as diagnostics and troubleshooting are also given special importance. By the end of this book, you will have all the knowledge you need to run, manage, and maintain PostgreSQL efficiently. STYLE AND APPROACH This book takes a step-by-step, recipe-based approach, where each recipe focuses on a particular challenge faced by a PostgreSQL administrator while administering his/her database. Explained in a very easy to follow manner, every task is supported with best practices, tips and tricks.

[LEARNING POSTGRESQL](#) SALAHALDIN JUBA,ACHIM VANNAHME,ANDREY VOLKOV,2015-11-30 CREATE, DEVELOP AND MANAGE RELATIONAL DATABASES IN REAL WORLD APPLICATIONS USING POSTGRESQL ABOUT THIS BOOK LEARN ABOUT THE POSTGRESQL DEVELOPMENT LIFE CYCLE INCLUDING ITS TESTING AND REFACTORING BUILD PRODUCTIVE DATABASE SOLUTIONS AND USE THEM IN JAVA APPLICATIONS A COMPREHENSIVE GUIDE TO LEARN ABOUT SQL, POSTGRESQL PROCEDURAL LANGUAGE AND PL/PgSQL WHO THIS BOOK IS FOR IF YOU ARE A STUDENT, DATABASE DEVELOPER OR AN ADMINISTRATOR, INTERESTED IN DEVELOPING AND MAINTAINING A POSTGRESQL DATABASE, THEN THIS BOOK IS FOR YOU. NO KNOWLEDGE OF DATABASE PROGRAMMING OR ADMINISTRATION IS NECESSARY. WHAT YOU WILL LEARN LEARN CONCEPTS OF DATA MODELLING AND RELATION ALGEBRA INSTALL AND SET UP POSTGRESQL DATABASE SERVER AND CLIENT SOFTWARE IMPLEMENT DATA STRUCTURES IN POSTGRESQL MANIPULATE DATA IN THE DATABASE USING SQL IMPLEMENT DATA PROCESSING LOGIC IN THE DATABASE WITH STORED FUNCTIONS, TRIGGERS AND VIEWS TEST DATABASE SOLUTIONS AND ASSESS THE PERFORMANCE INTEGRATE DATABASE WITH JAVA APPLICATIONS DETAILED KNOWLEDGE OF THE MAIN POSTGRESQL BUILDING OBJECTS, MOST USED EXTENSIONS PRACTICE DATABASE DEVELOPMENT LIFE CYCLE INCLUDING ANALYSIS, MODELLING, (DOCUMENTATION), TESTING, BUG FIXES AND REFACTORING IN DETAIL POSTGRESQL IS ONE OF THE MOST POWERFUL AND EASY TO USE DATABASE MANAGEMENT SYSTEMS. IT HAS STRONG SUPPORT FROM THE COMMUNITY AND IS BEING ACTIVELY DEVELOPED WITH A NEW RELEASE EVERY YEAR. POSTGRESQL SUPPORTS THE MOST ADVANCED FEATURES INCLUDED IN SQL STANDARDS. ALSO IT PROVIDES NoSQL CAPABILITIES, AND VERY RICH DATA TYPES AND EXTENSIONS. ALL THAT MAKES POSTGRESQL A VERY ATTRACTIVE SOLUTION IN VARIOUS KINDS OF SOFTWARE SYSTEMS. THE BOOK STARTS WITH THE INTRODUCTION OF RELATIONAL DATABASES WITH POSTEGRESQL. IT THEN MOVES ON TO COVERING DATA DEFINITION LANGUAGE (DDL) WITH EMPHASIS ON POSTGRESQL AND COMMON DDL COMMANDS SUPPORTED BY ANSI SQL. YOU WILL THEN LEARN THE DATA MANIPULATION LANGUAGE (DML), AND ADVANCED TOPICS LIKE LOCKING AND MULTI VERSION CONCURRENCY CONTROL (MVCC). THIS WILL GIVE YOU A VERY ROBUST BACKGROUND TO TUNE AND TROUBLESHOOT YOUR APPLICATION. THE BOOK THEN COVERS THE IMPLEMENTATION OF DATA MODELS IN THE DATABASE SUCH AS CREATING TABLES, SETTING UP INTEGRITY CONSTRAINTS, BUILDING INDEXES, DEFINING VIEWS AND OTHER SCHEMA OBJECTS. NEXT, IT WILL GIVE YOU AN OVERVIEW ABOUT THE NoSQL CAPABILITIES OF POSTGRESQL ALONG WITH HSTORE, XML, JSON AND ARRAYS. FINALLY BY THE END OF THE BOOK, YOU’LL LEARN TO USE THE JDBC DRIVER AND MANIPULATE DATA OBJECTS IN THE HIBERNATE FRAMEWORK. STYLE AND APPROACH AN EASY-TO-FOLLOW GUIDE TO LEARN PROGRAMMING BUILD APPLICATIONS WITH POSTGRESQL, AND MANAGE A POSTGRESQL DATABASE INSTANCE.

[POSTGRESQL FOR JOBSEEKERS](#) SONIA VALEJA,DAVID GONZALEZ,2023-06-22 A PRACTICAL GUIDE THAT WILL HELP YOU LEARN AND LEVERAGE POSTGRESQL’S CORE FEATURES KEY FEATURES [ACQUIRE IN-DEPTH KNOWLEDGE OF POSTGRESQL’S KEY CAPABILITIES AND GAIN A COMPREHENSIVE UNDERSTANDING OF ITS INNER WORKINGS.](#) [DISCOVER THE ART OF EXTENDING POSTGRESQL’S CORE FEATURES AND EFFECTIVELY TROUBLESHOOTING ANY CHALLENGES THAT MAY ARISE.](#) [EXPLORE THE VIBRANT COMMUNITY AND OPEN-SOURCE ECOSYSTEM THAT FORMS THE FOUNDATION OF POSTGRESQL’S DEVELOPMENT AND INNOVATION.](#) DESCRIPTION POSTGRESQL IS A POWERFUL OPEN-SOURCE RELATIONAL DATABASE MANAGEMENT SYSTEM (RDBMS) THAT IS WIDELY USED IN THE INDUSTRY. IF YOU ARE SEEKING TO ACQUIRE KNOWLEDGE ABOUT POSTGRESQL, THIS BOOK IS FOR YOU. THIS COMPREHENSIVE BOOK PROVIDES YOU WITH A SOLID FOUNDATION IN WORKING WITH POSTGRESQL, A POPULAR OPEN-SOURCE DATABASE MANAGEMENT SYSTEM. IT COVERS A BROAD SPECTRUM OF TOPICS, ALLOWING YOU TO SUCCESSFULLY INSTALL AND CONFIGURE POSTGRESQL ACROSS VARIOUS PLATFORMS AND METHODS. BY DELVING INTO THE INTERNAL COMPONENTS THAT CONSTITUTE A POSTGRESQL SERVICE AND THEIR INTERPLAY, YOU WILL GAIN A DEEP UNDERSTANDING OF HOW THESE ELEMENTS COLLABORATE TO DELIVER A ROBUST AND DEPENDABLE SOLUTION. FROM COMPREHENDING THE PROCESS MODEL AND SHARED MEMORY TO MASTERING QUERY EXECUTION AND OPTIMIZATION, YOU WILL ACQUIRE COMPREHENSIVE KNOWLEDGE OF POSTGRESQL’S INTERNAL WORKINGS. FURTHERMORE, THE BOOK EXPLORES ESSENTIAL TASKS PERFORMED BY A DATABASE ADMINISTRATOR (DBA), INCLUDING BACKUP AND RESTORE OPERATIONS, SECURITY MEASURES, PERFORMANCE TUNING, AND TROUBLESHOOTING TECHNIQUES. LASTLY, IT EXPLORES WIDELY USED EXTENSIONS AND COMPATIBLE TOOLS THAT CAN ENHANCE THE FUNCTIONALITY OF POSTGRESQL. UPON COMPLETING THIS BOOK, YOU WILL HAVE DEVELOPED A COMPREHENSIVE UNDERSTANDING OF THE INTERNAL COMPONENTS THAT COMPRISE A POSTGRESQL SERVICE AND THEIR COLLABORATIVE DYNAMICS, RESULTING IN A RELIABLE AND ROBUST SOLUTION. WHAT YOU WILL LEARN [GAIN PROFICIENCY IN INSTALLING AND PREPARING POSTGRESQL FOR VARIOUS METHODS AND PLATFORMS.](#) [DEVELOP A SOLID UNDERSTANDING OF THE INTERNAL COMPONENTS OF A POSTGRESQL SERVICE AND THEIR COLLABORATIVE DYNAMICS TO DELIVER A COMPREHENSIVE SOLUTION.](#) [ACQUIRE KNOWLEDGE ABOUT ESSENTIAL TASKS PERFORMED BY POSTGRESQL DBAS, INCLUDING BACKUP/RESTORE OPERATIONS, SECURITY MEASURES, TUNING, AND TROUBLESHOOTING.](#) [EXPLORE POPULAR EXTENSIONS AND COMPATIBLE TOOLS THAT CAN EXPAND AND ENHANCE THE CAPABILITIES OF POSTGRESQL.](#) [DISCOVER THE POSTGRESQL COMMUNITY AND LEARN HOW TO ACTIVELY CONTRIBUTE TO THE PROJECT’S DEVELOPMENT AND GROWTH.](#) WHO THIS BOOK IS FOR THIS BOOK IS HIGHLY RECOMMENDED FOR ENTRY LEVEL DATABASE ADMINISTRATORS, AS IT PROVIDES A SUITABLE STARTING POINT FOR THEIR JOURNEY. IT ASSUMES SOME PRIOR KNOWLEDGE OF DATABASE MANAGEMENT SYSTEMS (DBMS) TO ENSURE A SMOOTH LEARNING EXPERIENCE. ADDITIONALLY, SENIOR OR EXPERIENCED DEVELOPERS WILL FIND VALUE IN THIS BOOK, PARTICULARLY IN GAINING INSIGHTS INTO THE LATEST FEATURES INCORPORATED IN THE MOST RECENT VERSION OF THE DB, ENHANCING THEIR UNDERSTANDING AND PROFICIENCY IN ITS USE. TABLE OF CONTENTS 1. INTRODUCTION TO OPENSOURCE DATABASE - POSTGRESQL 2. GETTING POSTGRESQL TO WORK 3. MODERN OPTIONS TO GET POSTGRESQL 4. GLOBAL OBJECTS IN POSTGRESQL 5. ARCHITECTURE OF POSTGRESQL 6. POSTGRESQL INTERNALS 7. BACKUP AND RESTORE IN POSTGRESQL 8. REPLICATING DATA 9. SECURITY AND ACCESS CONTROL 10. MOST USED EXTENSIONS/TOOLS 11. BASIC DATABASE OBJECTS 12. ADVANCE DATABASE OBJECTS 13. PERFORMANCE TUNING 14. TROUBLESHOOTING 15. CONTRIBUTING TO POSTGRESQL COMMUNITY

[POSTGRESQL FOR PYTHON GUI](#) VIVIAN SIAHAAN,RISMON HASIHOLOAN SIANIPAR,2019-08-15 THIS BOOK IS A PYTHON/POSTGRESQL VERSION OF THE PYTHON/MYSQL BOOK WHICH WAS WRITTEN BY THE AUTHOR. WHAT UNDERLIES THE WRITING OF THIS BOOK IS THE GROWING POPULARITY OF THE POSTGRESQL DATABASE SERVER LATELY AND MORE AND MORE PROGRAMMERS MIGRATING FROM MYSQL TO POSTGRESQL. IN THIS BOOK, YOU WILL LEARN TO BUILD A SCHOOL DATABASE PROJECT, STEP BY STEP. A NUMBER OF WIDGETS FROM PYQT WILL BE USED FOR THE USER INTERFACE. IN THE FIRST AND SECOND CHAPTER, 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 THE FOURTH CHAPTER, YOU WILL STUDY: CREATING THE INITIAL THREE TABLE IN THE SCHOOL DATABASE PROJECT: TEACHER TABLE, CLASS TABLE, AND SUBJECT TABLE; CREATING DATABASE CONFIGURATION FILES; CREATING A PYTHON GUI FOR VIEWING AND NAVIGATING THE CONTENTS OF EACH TABLE. CREATING A PYTHON GUI FOR INSERTING AND EDITING TABLES; AND CREATING A PYTHON GUI TO MERGE AND QUERY THE THREE TABLES. IN LAST CHAPTER, YOU WILL LEARN: CREATING THE MAIN FORM TO CONNECT ALL FORMS; CREATING A PROJECT THAT WILL ADD THREE MORE TABLES TO THE SCHOOL DATABASE: THE STUDENT TABLE, THE PARENT TABLE, AND THE TUITION TABLE; CREATING A PYTHON GUI TO VIEW AND NAVIGATE THE CONTENTS OF EACH TABLE; CREATING A PYTHON GUI FOR EDITING, INSERTING, AND DELETING RECORDS IN EACH TABLE; CREATE A PYTHON GUI TO MERGE AND QUERY THE THREE TABLES AND ALL SIX TABLES.

[POSTGRESQL FOR JAVA GUI: DATABASE, CRYPTOGRAPHY, AND IMAGE PROCESSING](#) VIVIAN SIAHAAN,RISMON HASIHOLOAN SIANIPAR,2019-09-01 IN THIS BOOK, YOU WILL LEARN HOW TO BUILD FROM SCRATCH A CRIMINAL RECORDS MANAGEMENT DATABASE SYSTEM USING JAVA/POSTGRESQL. ALL JAVA CODE FOR CRYPTOGRAPHY AND DIGITAL IMAGE PROCESSING IN THIS BOOK IS NATIVE JAVA. INTENTIONALLY NOT TO RELY ON EXTERNAL LIBRARIES, SO THAT READERS KNOW IN DETAIL THE PROCESS OF EXTRACTING DIGITAL IMAGES FROM SCRATCH IN JAVA. THERE ARE ONLY THREE EXTERNAL LIBRARIES USED IN THIS BOOK: CONNECTOR / J TO FACILITATE JAVA TO POSTGRESQL CONNECTIONS, JCALENDAR TO DISPLAY CALENDAR CONTROLS, AND JFREECHART TO DISPLAY GRAPHICS. DIGITAL IMAGE TECHNIQUES TO EXTRACT IMAGE FEATURES USED IN THIS BOOK ARE GRASCALING, SHARPENING, INVERTERING, BLURRING, DILATION, EROSION, CLOSING, OPENING, VERTICAL PREWITT, HORIZONTAL PREWITT, LAPLACIAN, HORIZONTAL SOBEL, AND VERTICAL SOBEL. FOR READERS, YOU CAN DEVELOP IT TO STORE OTHER ADVANCED IMAGE FEATURES BASED ON DESCRIPTORS SUCH AS SIFT AND OTHERS FOR DEVELOPING DESCRIPTOR BASED MATCHING. IN THE FIRST CHAPTER, YOU WILL LEARN: HOW TO INSTALL NETBEANS, JDK 11, AND THE POSTGRESQL CONNECTOR; HOW TO INTEGRATE EXTERNAL LIBRARIES INTO PROJECTS; HOW THE BASIC POSTGRESQL COMMANDS ARE USED; HOW TO QUERY STATEMENTS TO CREATE DATABASES, CREATE TABLES, FILL TABLES, AND MANIPULATE TABLE CONTENTS IS DONE. IN THE SECOND CHAPTER, YOU WILL LEARN QUERYING DATA FROM THE POSTGRESQL USING JDBC 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 JDBC, UPDATING DATA IN POSTGRESQL DATABASE USING JDBC, CALLING POSTGRESQL STORED FUNCTION USING JDBC, DELETING DATA FROM A POSTGRESQL TABLE USING JDBC, AND POSTGRESQL JDBC TRANSACTION. IN THE SECOND CHAPTER, YOU WILL LEARN THE BASICS OF CRYPTOGRAPHY USING JAVA. HERE, YOU WILL LEARN HOW TO WRITE A JAVA PROGRAM TO COUNT HASH, MAC (MESSAGE AUTHENTICATION CODE), STORE KEYS IN A KEYSTORE, GENERATE PRIVATEKEY AND PUBLICKEY, ENCRYPT / DECRYPT DATA, AND GENERATE AND VERIFY DIGITAL PRINTS. IN THE THIRD CHAPTER, YOU WILL LEARN HOW TO CREATE AND STORE SALT PASSWORDS AND VERIFY THEM. YOU WILL CREATE A LOGIN TABLE. IN THIS CASE, YOU WILL SEE HOW TO CREATE A JAVA GUI USING NETBEANS TO IMPLEMENT IT. IN ADDITION TO THE LOGIN TABLE, IN THIS CHAPTER YOU WILL ALSO CREATE A CLIENT TABLE. IN THE CASE OF THE CLIENT TABLE, YOU WILL LEARN HOW TO GENERATE AND SAVE PUBLIC AND PRIVATE KEYS INTO A DATABASE. YOU WILL ALSO LEARN HOW TO ENCRYPT / DECRYPT DATA AND SAVE THE RESULTS INTO A DATABASE. IN THE FOURTH CHAPTER, YOU WILL CREATE AN ACCOUNT TABLE. THIS ACCOUNT TABLE HAS THE FOLLOWING TEN FIELDS: ACCOUNT_ID (PRIMARY KEY), CLIENT_ID (PRIMARYKEY), ACCOUNT_NUMBER, ACCOUNT_DATE, ACCOUNT_TYPE, PLAIN_BALANCE, CIPHER_BALANCE, DECIPHER_BALANCE, DIGITAL_SIGNATURE, AND SIGNATURE_VERIFICATION. IN THIS CASE, YOU WILL LEARN HOW TO IMPLEMENT GENERATING AND VERIFYING DIGITAL PRINTS AND STORING THE RESULTS INTO A DATABASE. IN THE FIFTH CHAPTER, YOU CREATE A TABLE WITH THE NAME OF THE ACCOUNT, WHICH HAS TEN COLUMNS: ACCOUNT_ID (PRIMARY KEY), CLIENT_ID (PRIMARYKEY), ACCOUNT_NUMBER, ACCOUNT_DATE, ACCOUNT_TYPE, PLAIN_BALANCE, CIPHER_BALANCE, DECIPHER_BALANCE, DIGITAL_SIGNATURE, AND SIGNATURE_VERIFICATION. IN THE SIXTH CHAPTER, YOU WILL CREATE A CLIENT_DATA TABLE, WHICH HAS THE FOLLOWING SEVEN FIELDS: CLIENT_DATA_ID (PRIMARY KEY), ACCOUNT_ID (PRIMARY_KEY), BIRTH_DATE, ADDRESS, MOTHER_NAME, TELEPHONE, AND PHOTO_PATH. IN THE SEVENTH CHAPTER, YOU WILL BE TAUGHT HOW TO CREATE CRIME DATABASE AND ITS TABLES. IN EIGHTH CHAPTER, YOU WILL BE TAUGHT HOW TO EXTRACT IMAGE FEATURES, UTILIZING BUFFEREDIMAGE CLASS, IN JAVA GUI. IN THE NINETH CHAPTER, YOU WILL BE TAUGHT TO CREATE JAVA GUI TO VIEW, EDIT, INSERT, AND DELETE SUSPECT TABLE DATA. 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. IN THE TENTH CHAPTER, YOU WILL BE TAUGHT TO CREATE JAVA GUI TO VIEW, EDIT, INSERT, AND DELETE FEATURE_EXTRACTION TABLE DATA. THIS TABLE HAS EIGHT COLUMNS: FEATURE_ID (PRIMARY KEY), SUSPECT_ID (FOREIGN KEY), FEATURE1, FEATURE2, FEATURE3, FEATURE4, FEATURE5, AND FEATURE6. IN THE ELEVENTH CHAPTER, YOU WILL ADD TWO TABLES: POLICE_STATION AND INVESTIGATOR. THESE TWO TABLES WILL LATER BE JOINED TO SUSPECT TABLE THROUGH ANOTHER TABLE, FILE_CASE, WHICH WILL BE BUILT IN THE SEVENTH CHAPTER. THE POLICE_STATION HAS SIX COLUMNS: POLICE_STATION_ID (PRIMARY KEY), LOCATION, CITY, PROVINCE, TELEPHONE, AND PHOTO. THE INVESTIGATOR HAS EIGHT COLUMNS: INVESTIGATOR_ID (PRIMARY KEY), INVESTIGATOR_NAME, RANK, BIRTH_DATE, GENDER, ADDRESS, TELEPHONE, AND PHOTO. HERE, YOU WILL DESIGN A JAVA GUI TO DISPLAY, EDIT, FILL, AND DELETE DATA IN BOTH TABLES. IN THE TWELFTH CHAPTER, YOU WILL ADD TWO TABLES: VICTIM AND FILE_CASE. THE FILE_CASE TABLE WILL CONNECT FOUR OTHER TABLES: SUSPECT, POLICE_STATION, INVESTIGATOR AND VICTIM. THE VICTIM TABLE HAS NINE COLUMNS: VICTIM_ID (PRIMARY KEY), VICTIM_NAME, CRIME_TYPE, BIRTH_DATE, CRIME_DATE, GENDER, ADDRESS, TELEPHONE, AND PHOTO. THE FILE_CASE HAS SEVEN COLUMNS: FILE_CASE_ID (PRIMARY

KEY), SUSPECT_ID (FOREIGN KEY), POLICE_STATION_ID (FOREIGN KEY), INVESTIGATOR_ID (FOREIGN KEY), VICTIM_ID (FOREIGN KEY), STATUS, AND DESCRIPTION. HERE, YOU WILL ALSO DESIGN A JAVA GUI TO DISPLAY, EDIT, FILL, AND DELETE DATA IN BOTH TABLES. FINALLY, THIS BOOK IS HOPEFULLY USEFUL FOR YOU.

THE BEST GUIDE TO DATABASE PROGRAMMING WITH JAVA GUI, PostgreSQL, AND SQL SERVER VIVIAN SIAHAAN,RISMON HASIHOLOAN SIANIPAR,2020-01-13 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 PostgreSQL AND SQL SERVER. AS YOU WOULD EXPECT, THIS BOOK SHOWS HOW TO BUILD FROM SCRATCH TWO DIFFERENT DATABASES: PostgreSQL AND SQL SERVER USING JAVA. IN DESIGNING A GUI AND AS AN IDE, YOU WILL MAKE USE OF THE NetBEANS TOOL. IN CHAPTER ONE, YOU WILL LEARN: HOW TO INSTALL NetBEANS, JDK 11, AND THE PostgreSQL CONNECTOR; HOW TO INTEGRATE EXTERNAL LIBRARIES INTO PROJECTS; HOW THE BASIC PostgreSQL COMMANDS ARE USED; HOW TO QUERY STATEMENTS TO CREATE DATABASES, CREATE TABLES, FILL TABLES, AND MANIPULATE TABLE CONTENTS IS DONE. IN CHAPTER TWO, YOU WILL LEARN QUERYING DATA FROM THE PostgreSQL USING JDBC 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 JDBC, UPDATING DATA IN PostgreSQL DATABASE USING JDBC, CALLING PostgreSQL STORED FUNCTION USING JDBC, DELETING DATA FROM A PostgreSQL TABLE USING JDBC, AND PostgreSQL JDBC TRANSACTION. IN CHAPTER THREE, YOU WILL LEARN THE BASICS OF CRYPTOGRAPHY USING JAVA. HERE, YOU WILL LEARN HOW TO WRITE A JAVA PROGRAM TO COUNT HASH, MAC (MESSAGE AUTHENTICATION CODE), STORE KEYS IN A KEYSTORE, GENERATE PRIVATEKEY AND PUBLICKEY, ENCRYPT / DECRYPT DATA, AND GENERATE AND VERIFY DIGITAL PRINTS. YOU WILL ALSO LEARN HOW TO CREATE AND STORE SALT PASSWORDS AND VERIFY THEM. IN CHAPTER FOUR, YOU WILL CREATE A PostgreSQL DATABASE, NAMED BANK, AND ITS TABLES. IN CHAPTER FIVE, YOU WILL CREATE A LOGIN TABLE. IN THIS CASE, YOU WILL SEE HOW TO CREATE A JAVA GUI USING NetBEANS TO IMPLEMENT IT. IN ADDITION TO THE LOGIN TABLE, IN THIS CHAPTER YOU WILL ALSO CREATE A CLIENT TABLE. IN THE CASE OF THE CLIENT TABLE, YOU WILL LEARN HOW TO GENERATE AND SAVE PUBLIC AND PRIVATE KEYS INTO A DATABASE. YOU WILL ALSO LEARN HOW TO ENCRYPT / DECRYPT DATA AND SAVE THE RESULTS INTO A DATABASE. IN CHAPTER SIX, YOU WILL CREATE AN ACCOUNT TABLE. THIS ACCOUNT TABLE HAS THE FOLLOWING TEN FIELDS: ACCOUNT_ID (PRIMARY KEY), CLIENT_ID (PRIMARYKEY), ACCOUNT_NUMBER, ACCOUNT_DATE, ACCOUNT_TYPE, PLAIN_BALANCE, CIPHER_BALANCE, DECIPHER_BALANCE, DIGITAL_SIGNATURE, AND SIGNATURE_VERIFICATION. IN THIS CASE, YOU WILL LEARN HOW TO IMPLEMENT GENERATING AND VERIFYING DIGITAL PRINTS AND STORING THE RESULTS INTO A DATABASE. IN CHAPTER SEVEN, YOU CREATE A TABLE NAMED CLIENT_DATA, WHICH HAS SEVEN COLUMNS: CLIENT_DATA_ID (PRIMARY KEY), ACCOUNT_ID (PRIMARY_KEY), BIRTH_DATE, ADDRESS, MOTHER_NAME, TELEPHONE, AND PHOTO_PATH. IN CHAPTER EIGHT, YOU WILL BE TAUGHT HOW TO CREATE A SQL SERVER DATABASE, NAMED CRIME, AND ITS TABLES. IN CHAPTER NINE, YOU WILL BE TAUGHT HOW TO EXTRACT IMAGE FEATURES, UTILIZING BufferedImage CLASS, IN JAVA GUI. IN CHAPTER TEN, YOU WILL BE TAUGHT TO CREATE JAVA GUI TO VIEW, EDIT, INSERT, AND DELETE SUSPECT TABLE DATA. 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. IN CHAPTER ELEVEN, YOU WILL BE TAUGHT TO CREATE JAVA GUI TO VIEW, EDIT, INSERT, AND DELETE FEATURE_EXTRACTION TABLE DATA. THIS TABLE HAS EIGHT COLUMNS: FEATURE_ID (PRIMARY KEY), SUSPECT_ID (FOREIGN KEY), FEATURE1, FEATURE2, FEATURE3, FEATURE4, FEATURE5, AND FEATURE6. IN CHAPTER TWELVE, YOU WILL ADD TWO TABLES: POLICE_STATION AND INVESTIGATOR. THESE TWO TABLES WILL LATER BE JOINED TO SUSPECT TABLE THROUGH ANOTHER TABLE, FILE_CASE, WHICH WILL BE BUILT IN THE SEVENTH CHAPTER. THE POLICE_STATION HAS SIX COLUMNS: POLICE_STATION_ID (PRIMARY KEY), LOCATION, CITY, PROVINCE, TELEPHONE, AND PHOTO. THE INVESTIGATOR HAS EIGHT COLUMNS: INVESTIGATOR_ID (PRIMARY KEY), INVESTIGATOR_NAME, RANK, BIRTH_DATE, GENDER, ADDRESS, TELEPHONE, AND PHOTO. HERE, YOU WILL DESIGN A JAVA GUI TO DISPLAY, EDIT, FILL, AND DELETE DATA IN BOTH TABLES. IN CHAPTER THIRTEEN, YOU WILL ADD TWO TABLES: VICTIM AND FILE_CASE. THE FILE_CASE TABLE WILL CONNECT FOUR OTHER TABLES: SUSPECT, POLICE_STATION, INVESTIGATOR AND VICTIM. THE VICTIM TABLE HAS NINE COLUMNS: VICTIM_ID (PRIMARY KEY), VICTIM_NAME, CRIME_TYPE, BIRTH_DATE, CRIME_DATE, GENDER, ADDRESS, TELEPHONE, AND PHOTO. THE FILE_CASE HAS SEVEN COLUMNS: FILE_CASE_ID (PRIMARY KEY), SUSPECT_ID (FOREIGN KEY), POLICE_STATION_ID (FOREIGN KEY), INVESTIGATOR_ID (FOREIGN KEY), VICTIM_ID (FOREIGN KEY), STATUS, AND DESCRIPTION. HERE, YOU WILL ALSO DESIGN A JAVA GUI TO DISPLAY, EDIT, FILL, AND DELETE DATA IN BOTH TABLES. FINALLY, THIS BOOK IS HOPEFULLY USEFUL AND CAN IMPROVE DATABASE PROGRAMMING SKILLS FOR EVERY JAVA/PostgreSQL/SQL SERVER PROGRAMMER.

LEARN PostgreSQL 12 LUCA. PIROZZI FERRARI (ENRICO.),Enrico Pirozzi,2020-07

BUILDING TWO DESKTOP APPLICATIONS USING PYTHON GUI AND PostgreSQL VIVIAN SIAHAAN,RISMON HASIHOLOAN SIANIPAR,2019-11-07 IN THIS BOOK, YOU WILL CREATE TWO DESKTOP APPLICATIONS USING PYTHON GUI AND PostgreSQL. THIS BOOK IS A PYTHON/PostgreSQL VERSION OF THE PYTHON/MYSQL BOOK WHICH WAS WRITTEN BY THE AUTHOR. WHAT UNDERLIES THE WRITING OF THIS BOOK IS THE GROWING POPULARITY OF THE PostgreSQL DATABASE SERVER LATELY AND MORE AND MORE PROGRAMMERS MIGRATING FROM MYSQL TO PostgreSQL. IN THIS BOOK, YOU WILL LEARN TO BUILD A SCHOOL DATABASE PROJECT, STEP BY STEP. A NUMBER OF WIDGETS FROM PyQT WILL BE USED FOR THE USER INTERFACE. IN THE FIRST AND SECOND CHAPTER, 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 THE FOURTH CHAPTER, YOU WILL STUDY: CREATING THE INITIAL THREE TABLE IN THE SCHOOL DATABASE PROJECT: TEACHER TABLE, CLASS TABLE, AND SUBJECT TABLE; CREATING DATABASE CONFIGURATION FILES; CREATING A PYTHON GUI FOR VIEWING AND NAVIGATING THE CONTENTS OF EACH TABLE. CREATING A PYTHON GUI FOR INSERTING AND EDITING TABLES; AND CREATING A PYTHON GUI TO MERGE AND QUERY THE THREE TABLES. IN CHAPTER FIVE, YOU WILL LEARN: CREATING THE MAIN FORM TO CONNECT ALL FORMS; CREATING A PROJECT THAT WILL ADD THREE MORE TABLES TO THE SCHOOL DATABASE: THE STUDENT TABLE, THE PARENT TABLE, AND THE TUITION TABLE; CREATING A PYTHON GUI TO VIEW AND NAVIGATE THE CONTENTS OF EACH TABLE; CREATING A PYTHON GUI FOR EDITING, INSERTING, AND DELETING RECORDS IN EACH TABLE; CREATE A PYTHON GUI TO MERGE AND QUERY THE THREE TABLES AND ALL SIX TABLES. IN CHAPTER SIX, YOU WILL CREATE DAN CONFIGURE PotgreSQL 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.

THE FAST WAY TO LEARN JAVA GUI WITH PostgreSQL AND SQLITE VIVIAN SIAHAAN,RISMON HASIHOLOAN SIANIPAR,2020-01-15 THIS STEP-BY-STEP GUIDE TO EXPLORE DATABASE PROGRAMMING USING JAVA IS IDEAL FOR PEOPLE WITH LITTLE OR NO PROGRAMMING EXPERIENCE. THE GOAL OF THIS CONCISE BOOK IS NOT JUST TO TEACH YOU JAVA, BUT TO HELP YOU THINK LIKE A PROGRAMMER. EACH BRIEF CHAPTER COVERS THE MATERIAL FOR ONE WEEK OF A COLLEGE COURSE TO HELP YOU PRACTICE WHAT YOU'VE LEARNED. AS YOU WOULD EXPECT, THIS BOOK SHOWS HOW TO BUILD FROM SCRATCH TWO DIFFERENT DATABASES: PostgreSQL AND SQLITE USING JAVA. IN DESIGNING A GUI AND AS AN IDE, YOU WILL MAKE USE OF THE NetBEANS TOOL. IN THE FIRST CHAPTER, YOU WILL LEARN: HOW TO INSTALL NetBEANS, JDK 11, AND THE PostgreSQL CONNECTOR; HOW TO INTEGRATE EXTERNAL LIBRARIES INTO PROJECTS; HOW THE BASIC PostgreSQL COMMANDS ARE USED; HOW TO QUERY STATEMENTS TO CREATE DATABASES, CREATE TABLES, FILL TABLES, AND MANIPULATE TABLE CONTENTS IS DONE. IN THE FIRST CHAPTER, YOU WILL LEARN: HOW TO INSTALL NetBEANS, JDK 11, AND THE PostgreSQL CONNECTOR; HOW TO INTEGRATE EXTERNAL LIBRARIES INTO PROJECTS; HOW THE BASIC PostgreSQL COMMANDS ARE USED; HOW TO QUERY STATEMENTS TO CREATE DATABASES, CREATE TABLES, FILL TABLES, AND MANIPULATE TABLE CONTENTS IS DONE. IN THE SECOND CHAPTER, YOU WILL LEARN QUERYING DATA FROM THE PostgreSQL USING JDBC 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 JDBC, UPDATING DATA IN PostgreSQL DATABASE USING JDBC, CALLING PostgreSQL STORED FUNCTION USING JDBC, DELETING DATA FROM A PostgreSQL TABLE USING JDBC, AND PostgreSQL JDBC TRANSACTION. IN CHAPTER THREE, YOU WILL CREATE A PostgreSQL DATABASE, NAMED SCHOOL, AND ITS TABLES. IN CHAPTER FOUR, YOU WILL STUDY: CREATING THE INITIAL THREE TABLE PROJECTS IN THE SCHOOL DATABASE: TEACHER TABLE, TCLASS TABLE, AND SUBJECT TABLE; CREATING DATABASE CONFIGURATION FILES; CREATING A JAVA GUI FOR VIEWING AND NAVIGATING THE CONTENTS OF EACH TABLE; CREATING A JAVA GUI FOR INSERTING AND EDITING TABLES; AND CREATING A JAVA GUI TO JOIN AND QUERY THE THREE TABLES. IN CHAPTER FIVE, YOU WILL LEARN: CREATING THE MAIN FORM TO CONNECT ALL FORMS; CREATING A PROJECT WILL ADD THREE MORE TABLES TO THE SCHOOL DATABASE: THE STUDENT TABLE, THE PARENT TABLE, AND TUITION TABLE; CREATING A JAVA GUI TO VIEW AND NAVIGATE THE CONTENTS OF EACH TABLE; CREATING A JAVA GUI FOR EDITING, INSERTING, AND DELETING RECORDS IN EACH TABLE; CREATING A JAVA GUI TO JOIN AND QUERY THE THREE TABLES AND ALL SIX. IN CHAPTER SIX, YOU WILL STUDY HOW TO QUERY THE SIX TABLES. IN CHAPTER SEVEN, YOU WILL BE SHOWN HOW TO CREATE SQLITE DATABASE AND TABLES WITH JAVA. IN CHAPTER EIGHT, YOU WILL BE TAUGHT HOW TO EXTRACT IMAGE FEATURES, UTILIZING BufferedImage CLASS, IN JAVA GUI. DIGITAL IMAGE TECHNIQUES TO EXTRACT IMAGE FEATURES USED IN THIS CHAPTED ARE GRASCALING, SHARPENING, INVERTERING, BLURRING, DILATION, EROSION, CLOSING, OPENING, VERTICAL PREWITT, HORIZONTAL PREWITT, LAPLACIAN, HORIZONTAL SOBEL, AND VERTICAL SOBEL. FOR READERS, YOU CAN DEVELOP IT TO STORE OTHER ADVANCED IMAGE FEATURES BASED ON DESCRIPTORS SUCH AS SIFT AND OTHERS FOR DEVELOPING DESCRIPTOR BASED MATCHING. IN CHAPTER NINE, YOU WILL BE TAUGHT TO CREATE JAVA GUI TO VIEW, EDIT, INSERT, AND DELETE SUSPECT TABLE DATA. 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. IN CHAPTER TEN, YOU WILL BE TAUGHT TO CREATE JAVA GUI TO VIEW, EDIT, INSERT, AND DELETE FEATURE_EXTRACTION TABLE DATA. THIS TABLE HAS EIGHT COLUMNS: FEATURE_ID (PRIMARY KEY), SUSPECT_ID (FOREIGN KEY), FEATURE1, FEATURE2, FEATURE3, FEATURE4, FEATURE5, AND FEATURE6. ALL SIX FIELDS (EXCEPT KEYS) WILL HAVE A BLOB DATA TYPE, SO THAT THE IMAGE OF THE FEATURE WILL BE DIRECTLY SAVED INTO THIS TABLE. IN CHAPTER ELEVEN, YOU WILL ADD TWO TABLES: POLICE_STATION AND INVESTIGATOR. THESE TWO TABLES WILL LATER BE JOINED TO SUSPECT TABLE THROUGH ANOTHER TABLE, FILE_CASE, WHICH WILL BE BUILT IN THE SEVENTH CHAPTER. THE POLICE_STATION HAS SIX COLUMNS: POLICE_STATION_ID (PRIMARY KEY), LOCATION, CITY, PROVINCE, TELEPHONE, AND PHOTO. THE INVESTIGATOR HAS EIGHT COLUMNS: INVESTIGATOR_ID (PRIMARY KEY), INVESTIGATOR_NAME, RANK, BIRTH_DATE, GENDER, ADDRESS, TELEPHONE, AND PHOTO. HERE, YOU WILL DESIGN A JAVA

GUI TO DISPLAY, EDIT, FILL, AND DELETE DATA IN BOTH TABLES. IN CHAPTER TWELVE, YOU WILL ADD TWO TABLES: VICTIM AND CASE_FILE. THE FILE_CASE TABLE WILL CONNECT FOUR OTHER TABLES: SUSPECT, POLICE_STATION, INVESTIGATOR AND VICTIM. 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 HAS SEVEN COLUMNS: CASE_FILE_ID (PRIMARY KEY), SUSPECT_ID (FOREIGN KEY), POLICE_STATION_ID (FOREIGN KEY), INVESTIGATOR_ID (FOREIGN KEY), VICTIM_ID (FOREIGN KEY), STATUS, AND DESCRIPTION. HERE, YOU WILL ALSO DESIGN A JAVA GUI TO DISPLAY, EDIT, FILL, AND DELETE DATA IN BOTH TABLES. FINALLY, THIS BOOK IS HOPEFULLY USEFUL AND CAN IMPROVE DATABASE PROGRAMMING SKILLS FOR EVERY JAVA/POSTGRESL/SQLITE POGRAMMER.

[A PROGRESSIVE TUTORIAL TO DATABASE PROGRAMMING WITH PYTHON GUI AND POSTGRESQL](#) VIVIAN SIAHAAN,RISMON HASIHOAN SIANIPAR,2020-01-03

IN THIS BOOK, YOU WILL CREATE TWO DESKTOP APPLICATIONS USING PYTHON GUI AND POSTGRESQL. THIS BOOK IS A PYTHON/POSTGRESQL VERSION OF THE PYTHON/MYSQL BOOK WHICH WAS WRITTEN BY THE AUTHOR. WHAT UNDERLIES THE WRITING OF THIS BOOK IS THE GROWING POPULARITY OF THE POSTGRESQL DATABASE SERVER LATELY AND MORE AND MORE PROGRAMMERS MIGRATING FROM MYSQL TO POSTGRESQL. IN THIS BOOK, YOU WILL LEARN TO BUILD A SCHOOL DATABASE PROJECT, STEP BY STEP. A NUMBER OF WIDGETS FROM PYQT WILL BE USED FOR THE USER INTERFACE. IN THE FIRST AND SECOND CHAPTER, 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 THE FOURTH CHAPTER, YOU WILL STUDY: CREATING THE INITIAL THREE TABLE IN THE SCHOOL DATABASE PROJECT: TEACHER TABLE, CLASS TABLE, AND SUBJECT TABLE; CREATING DATABASE CONFIGURATION FILES; CREATING A PYTHON GUI FOR VIEWING AND NAVIGATING THE CONTENTS OF EACH TABLE. CREATING A PYTHON GUI FOR INSERTING AND EDITING TABLES; AND CREATING A PYTHON GUI TO MERGE AND QUERY THE THREE TABLES. IN CHAPTER FIVE, YOU WILL LEARN: CREATING THE MAIN FORM TO CONNECT ALL FORMS; CREATING A PROJECT THAT WILL ADD THREE MORE TABLES TO THE SCHOOL DATABASE: THE STUDENT TABLE, THE PARENT TABLE, AND THE TUITION TABLE; CREATING A PYTHON GUI TO VIEW AND NAVIGATE THE CONTENTS OF EACH TABLE; CREATING A PYTHON GUI FOR EDITING, INSERTING, AND DELETING RECORDS IN EACH TABLE; CREATE A PYTHON GUI TO MERGE AND QUERY THE THREE TABLES AND ALL SIX TABLES. IN CHAPTER SIX, YOU WILL CREATE DAN CONFIGURE POTGRESQL 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.

WHEN PEOPLE SHOULD GO TO THE EBOOK STORES, SEARCH LAUNCH BY SHOP, SHELF BY SHELF, IT IS REALLY PROBLEMATIC. THIS IS WHY WE PROVIDE THE BOOK COMPILATIONS IN THIS WEBSITE. IT WILL NO QUESTION EASE YOU TO SEE GUIDE **POSTGRESQL MANAGER** AS YOU SUCH AS.

BY SEARCHING THE TITLE, PUBLISHER, OR AUTHORS OF GUIDE YOU ESSENTIALLY WANT, YOU CAN DISCOVER THEM RAPIDLY. IN THE HOUSE, WORKPLACE, OR PERHAPS IN YOUR METHOD CAN BE EVERY BEST PLACE WITHIN NET CONNECTIONS. IF YOU WISH TO DOWNLOAD AND INSTALL THE POSTGRESQL MANAGER, IT IS UNCONDITIONALLY EASY THEN, PREVIOUSLY CURRENTLY WE EXTEND THE LINK TO PURCHASE AND CREATE BARGAINS TO DOWNLOAD AND INSTALL POSTGRESQL MANAGER AS A RESULT SIMPLE!

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POSTGRESQL MANAGER INTRODUCTION

IN TODAYS DIGITAL AGE, THE AVAILABILITY OF POSTGRESQL MANAGER BOOKS AND MANUALS FOR DOWNLOAD HAS REVOLUTIONIZED THE WAY WE ACCESS INFORMATION. GONE ARE THE DAYS OF PHYSICALLY FLIPPING THROUGH PAGES AND CARRYING HEAVY TEXTBOOKS OR MANUALS. WITH JUST A FEW CLICKS, WE CAN NOW ACCESS A WEALTH OF KNOWLEDGE FROM THE COMFORT OF OUR OWN HOMES OR ON THE GO. THIS ARTICLE WILL EXPLORE THE ADVANTAGES OF POSTGRESQL MANAGER BOOKS AND MANUALS FOR DOWNLOAD, ALONG WITH SOME POPULAR PLATFORMS THAT OFFER THESE RESOURCES. ONE OF THE SIGNIFICANT ADVANTAGES OF POSTGRESQL MANAGER BOOKS AND MANUALS FOR DOWNLOAD IS THE COST-SAVING ASPECT. TRADITIONAL BOOKS AND MANUALS CAN BE COSTLY, ESPECIALLY IF YOU NEED TO PURCHASE SEVERAL OF THEM FOR EDUCATIONAL OR PROFESSIONAL PURPOSES. BY ACCESSING POSTGRESQL MANAGER VERSIONS, YOU

WHICH OFFERS FREE ACCESS TO COURSE MATERIALS FROM THE MASSACHUSETTS INSTITUTE OF TECHNOLOGY, AND THE DIGITAL PUBLIC LIBRARY OF AMERICA, WHICH PROVIDES A VAST COLLECTION OF DIGITIZED BOOKS AND HISTORICAL DOCUMENTS. IN CONCLUSION, POSTGRESQL MANAGER BOOKS AND MANUALS FOR DOWNLOAD HAVE TRANSFORMED THE WAY WE ACCESS INFORMATION. THEY PROVIDE A COST-EFFECTIVE AND CONVENIENT MEANS OF ACQUIRING KNOWLEDGE, OFFERING THE ABILITY TO ACCESS A VAST LIBRARY OF RESOURCES AT OUR FINGERTIPS. WITH PLATFORMS LIKE PROJECT GUTENBERG, OPEN LIBRARY, AND VARIOUS DIGITAL LIBRARIES OFFERED BY EDUCATIONAL INSTITUTIONS, WE HAVE ACCESS TO AN EVER-EXPANDING COLLECTION OF BOOKS AND MANUALS. WHETHER FOR EDUCATIONAL, PROFESSIONAL, OR PERSONAL PURPOSES, THESE DIGITAL RESOURCES SERVE AS VALUABLE TOOLS FOR CONTINUOUS LEARNING AND SELF-IMPROVEMENT. SO WHY NOT TAKE ADVANTAGE OF THE VAST WORLD OF POSTGRESQL MANAGER BOOKS AND MANUALS FOR DOWNLOAD AND EMBARK ON YOUR JOURNEY OF KNOWLEDGE?

FAQS ABOUT POSTGRESQL MANAGER BOOKS

How do I know which eBook platform is the best for me? Finding the best eBook platform depends on your reading preferences and device compatibility. Research different platforms, read user reviews, and explore their features before making a choice. Are free eBooks of good quality? Yes, many reputable platforms offer high-quality free eBooks, including classics and public domain works. However, make sure to verify the source to ensure the eBook credibility. Can I read eBooks without an eReader? Absolutely! Most eBook platforms offer web-based readers or mobile apps that allow you to read eBooks on your computer, tablet, or smartphone. How do I avoid digital eye strain while reading eBooks? To prevent digital eye strain, take regular breaks, adjust the font size and background color, and ensure proper lighting while reading eBooks. What the advantage of interactive eBooks? Interactive eBooks incorporate multimedia elements, quizzes, and activities, enhancing the reader engagement and providing a more immersive learning experience. PostgreSQL Manager is one of the best book in our library for free trial. We provide copy of PostgreSQL Manager in digital format, so the resources that you find are reliable. There are also many eBooks of related with PostgreSQL Manager. Where to download PostgreSQL Manager online for free? Are you looking for PostgreSQL Manager PDF? This is definitely going to save you time and cash in something you should think about.

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