Client Side

JDBC Call

Native Call

Java App

Type 2 Driver

Database Server

Lauren Gardner

Study Tonight Jdbc:

Learn JDBC By Example: A Quick Start Guide to MariaDB and SQL Server Driven Programming Vivian Siahaan,Rismon Hasiholan Sianipar,2019-11-24 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 MariaDB and SQL Server As you would expect this book shows how to build from scratch two different databases MariaDB 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 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 two you will create a PostgreSQL database named Bank and its tables In chapter three 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 four 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 five 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 six you will be taught how to create a SQL Server database named Crime and its tables In chapter seven you will be taught how to extract image features utilizing BufferedImage class in Java GUI In chapter eight 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 nine 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 ten 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

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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

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use security considerations database connections passing parameters and receiving results mapping SQL data types into Java asynchrony threading transactions cursors SQL extensions variants and extensions JDBC interface definitions dynaimc database access and more The text also includes a tutorial to help readers learn to use JDBC more quickly   JDBC API Tutorial and Reference Maydene Fisher,Jonathan Ellis,Jon Ellis,Jonathan Bruce,2003 bull A comprehensive tutorial AND useful rufescence in one volume bull Includes multiple explanations and examples for the new features of the JDBC 3 0 specification bull Written by the JDBC 3 0 architects Maydene Fisher Jon Ellis and Jonathan Bruce   **JDBC Tutorials - Herong's Tutorial Examples** Herong Yang,2020-10-10 This JDBC tutorial book is a collection of notes and sample codes written by the author while he was learning JDBC technology himself Topics include installing JDK and Derby database server using Derby JDBC driver database connection URLs introduction to Result Set Meta Data Prepared Statement CLOB and BLOB connection pooling with DBCP and C3P0 Updated in 2024 Version v3 13 with minor changes For latest updates and free sample chapters visit https www herongyang com JDBC   **SQLite with JDBC for Beginners** Vivian Siahaan,Rismon Hasiholan Sianipar,2019-09-29 In this book you will learn how to build from scratch a SQLite database management system using Java In designing a GUI and as an IDE you will make use of the NetBeans tool Gradually and step by step you will be taught how to use SQLite in Java In the first chapter you will learn How to create SQLite database and six tables In the second chapter 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 the third chapter 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 tables In the last chapter you will study how to query the six tables Finally this book is hopefully useful and can improve database programming skills for every Java SQLite programmer

Learn JDBC Jack Keller,2021-05-19 JDBC API is a Java API that can access any kind of tabular data especially data stored in a Relational Database JDBC works with Java on a variety of platforms such as Windows Mac OS and the various versions of UNIX Why to Learn JDBC JDBC stands for Java Database Connectivity which is a standard Java API for database independent connectivity between the Java programming language and a wide range of databases This book is designed for Java programmers who would like to understand the JDBC framework in detail along with its architecture and actual usage Before proceeding with this book you should have a good understanding of Java programming language As you are going to deal with RDBMS you should have prior exposure to SQL and Database concepts   **Understanding SQL and Java Together** Jim Melton,Andrew Eisenberg,2000 Annotation With the growth of Java and the rise of database powered Web applications

the need to use Java with SQL is clear Until now authoritative coverage of the techniques available to meet these challenges and reap their benefits both programming and career benefits didn t exist Understanding SQL and Java Together examines all the standards for combining SQL and Java It shows you exactly how to use their features to write efficient and effective code supporting Java access to SQL data in a variety of ways You ll gain a thorough understanding of the relationship between SQL and Java which will allow you to write static and dynamic SQL programs in Java merge Java code with SQL databases and SQL code and use other data management techniques wherever appropriate Covers all the technologies for using SQL and Java together including JDBC Java Blend and SQLJ Parts 0 1 and 2 Explains how to embed SQL code in Java and take advantage of Java s ability to compile that code for aspecific DBMS Explains how to store and invoke Java routines in an SQL database and how to store Java objects in an SQL database for seamless interchange among application layers Covers dynamic SQL access techniques using JDBC and advantageous ways to combine static and dynamic SQL Comes with a CD ROM containing Oracle s JDeveloper Sybase s Adaptive Server Anywhere Informix s Cloudscape the complete database schema and the complete text of most of the examples **JDBC Pocket Reference** Donald Bales,2003-01-23 JDBC the Java Database Connectivity specification is a complex set of application programming interfaces APIs that developers need to understand if they want their Java applications to work with databases JDBC is so complex that even the most experienced developers need to refresh their memories from time to time on specific methods and details But practically speaking who wants to stop and thumb through a weighty tutorial volume each time a question arises The answer is the JDBC Pocket Reference a data packed quick reference that is both a time saver and a lifesaver The JDBC Pocket Reference offers quick look ups for all methods of the standard JDBC classes These include concise reviews of the procedures for common JDBC tasks such as connecting to a database executing stored procedures executing DDL and the like You ll find documentation of the connect string formats for the most common databases including Oracle SQL Server and PostgreSQL You ll even find information on working with large objects and on using SQL99 user defined datatypes to work with object relational data Searching for this sort of material through large tutorials is frustrating and a waste of time but this pocket sized book is easy to take anywhere and makes finding the information you need a snap O Reilly s Pocket References have become a favorite among developers everywhere By providing a wealth of important details in a concise well organized format these handy books deliver just what you need to complete the task at hand When you ve reached a sticking point and need to get to the answer quickly the new JDBC Pocket Reference is the book you ll want close at hand **Java Database Programming with JDBC** Pratik Patel,Karl Moss,1996 This text presents the JDBC standard Java s database connectivity environment and provides information for using Java with JDBC for accessing databases The manual is designed for users who are learning database programming for the Internet or company In *Java In Action: An Excellent Guide to Explore JDBC And Database Applications* Vivian Siahaan,Rismon Hasiholan Sianipar,2019-11-27 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

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Picture11 JDBC Call Stored Procedure Add User12 JDBC Call Stored Procedure Update User13 JDBC Call Stored Procedure Delete User14 JDBC Call Stored Procedure Query User15 JDBC Call Stored Procedure Return Parameter

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