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Assignment 3

This code assumes that you have MySQL installed locally, and you have created a database named "mydatabase" with a table named "mytable" containing columns "id" (integer), "name" (string), and "age" (integer). You need to replace the url, username, and password variables with your actual database connection details.

Make sure you have the JDBC driver for your database (in this case, MySQL) added to your project's classpath before running this code.

import java.sql.Connection;

import java.sql.DriverManager;

import java.sql.ResultSet;

import java.sql.SQLException;

import java.sql.Statement;

public class JdbcExample {

public static void main(String[] args) {

// Database connection parameters

String url = "jdbc:mysql://localhost:3306/mydatabase";

String username = "your-username";

String password = "your-password";

// Establishing a connection

try (Connection connection = DriverManager.getConnection(url, username, password)) {

System.out.println("Connected to the database!");

// Creating a statement

Statement statement = connection.createStatement();

// Executing a query

String sqlQuery = "SELECT \* FROM mytable";

ResultSet resultSet = statement.executeQuery(sqlQuery);

// Processing the result set

while (resultSet.next()) {

int id = resultSet.getInt("id");

String name = resultSet.getString("name");

int age = resultSet.getInt("age");

System.out.println("ID: " + id + ", Name: " + name + ", Age: " + age);

}

// Closing the result set, statement, and connection

resultSet.close();

statement.close();

} catch (SQLException e) {

System.out.println("Database connection error: " + e.getMessage());

}

}

}