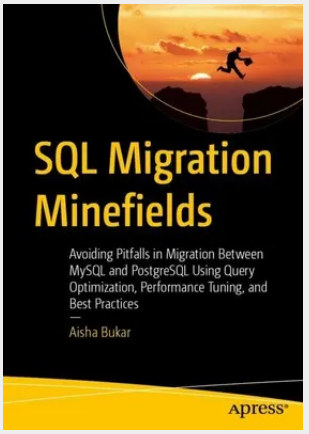
Bukar

SQL Migration Minefields

Avoiding Pitfalls in Migration Between MySQL and PostgreSQL Using Query Optimization, Performance Tuning, and Best Practices



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Migrating between MySQL and PostgreSQL is one of the most common—and most challenging—tasks facing modern development teams. While both databases are powerful and widely adopted, their differences in architecture, data types, indexing, and SQL syntax can lead to unexpected errors, performance bottlenecks, and costly re-engineering. Without a clear roadmap, migration becomes a minefield.

This book is your practical guide to navigating those migration challenges with confidence. Instead of treating MySQL and PostgreSQL in isolation, it offers side-by-side comparisons of syntax, features, and behaviors—complete with clear code examples and proven migration strategies. You'll learn how similar-looking features behave differently across the two systems, how to avoid hidden pitfalls, and how to leverage differences for better performance and reliability. Unlike generic SQL books, this guide is migration-focused, helping teams move between MySQL and PostgreSQL without guesswork.

Written in accessible language for developers new to either database, yet packed with advanced insights for seasoned engineers, this book serves as both a step-by-step migration manual and a trusted reference for real-world projects. By the end, you'll understand the trade-offs, make informed decisions, and execute migrations that align with your application's goals.

What You Will Learn

- Know architectural, behavioral, and feature differences between MySQL and PostgreSQL
- Be familiar with common pitfalls and hidden challenges during migration
- Understand the trade-offs of specific features in real-world application design
- Access practical, side-by-side syntax and feature comparisons with code examples
- Plan and execute smoother migrations
- Utilize strategies to avoid data loss and maintain integrity
- Use performance tuning tips for both MySQL and PostgreSQL
- Handle advanced features such as JSON, replication, and transactions
- Diagnose and resolve unexpected behaviors in applications

Who This Book Is For

Developers, DBAs, DevOps engineers, and software architects who work with MySQL or PostgreSQL in production environments. It's ideal for professionals planning migrations, designing cross-compatible systems, or making infrastructure decisions. Whether you're mid-level or senior, you'll find practical guidance to avoid pitfalls and improve performance during database transitions.

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