



Oracle Database Transactions and Locking Revealed

Thomas Kyte, Darl Kuhn

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Oracle Database Transactions and Locking Revealed provides much-needed information for building scalable, high-concurrency applications and deploy them against the Oracle Database. Read this short, 150-page book that is adapted from *Expert Oracle Database Architecture* to gain a solid and accurate understanding of how locking and concurrency are dealt with by Oracle Database. Also learn how the Oracle Database architecture accommodates user transactions, and how you can write code to mesh with how Oracle Database is designed to operate.

Good transaction design is an important facet of highly-concurrent applications that are run by hundreds, even thousands of users who are all executing transactions at the same time. Transaction design in turn relies upon a good understanding of how the underlying database platform manages the locking of resources so as to prevent access conflicts and data loss that might otherwise result from concurrent access to data in the database.

Oracle Database Transactions and Locking Revealed covers in detail the various lock types, and also different locking schemes such as pessimistic and optimistic locking. Then you'll learn about transaction isolation and multiversion concurrency, and how the various lock types support Oracle Database's transactional features. You'll learn some good tips for transaction design, as well as some bad practices and habits to avoid. Coverage is also given to redo and undo, and their role in concurrency. This is an important book that anyone developing highly-concurrent applications will want to have handy on their shelf.

What you'll learn

- Understand locks and their implication for concurrent applications
- Manage transaction isolation to meet business needs while not impeding concurrency
- Design effective transactions and choose the correct atomicity level for your needs
- Take advantage of features such as deferrable constraints and autonomous transactions
- Build multi-database applications with needed atomicity through distributed transactions
- Investigate and troubleshoot redo and undo problems that can impede concurrency

Who this book is for

Oracle Database Transactions and Locking Revealed is the definitive book on transactions and locking for Oracle Database developers and architects who are developing highly-concurrent applications. Readers should already have good understanding of SQL and PL/SQL. Experience in application development is also beneficial.

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