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# Oracle SQL Performance Tuning And Optimization: It's All About The Cardinalities

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### Synopsis

Written by a Senior Database Administrator who has worked with the Oracle RDBMS for thirty years, this is a book which teaches the skill of SQL Tuning for the Oracle Database. Not a list of one-off tricks or tips, nor a glossing over of topics; this book offers an in-depth process covering discovery, analysis, and problem resolution. Learn the science behind SQL Tuning. Learn and apply the FILTERED ROWS PERCENTAGE Cardinality based method of tuningDetermine a query's Driving Table and Join OrderConstruct Query Diagrams, Data Models, and Join TreesBuild and use Count / Filter / and Reconstruction QueriesIdentify Waste in a Query Execution PlanZero in on Cardinality Divergence using Estimated vs. ActualsUse the ACCESS / FILTER / COVERAGE strategy to build indexes for Problem QueriesExploit THE 2% RULE in analyzing Access method and Join methodClassify gueries as Precision Style or Warehouse StyleUnderstand Hash Join mechanics and make Hash Joins go fasterMake HINTS work as Detection Tools rather than clubsAvoid early Database Design flawsManage Statistics and deal with common Statistics problems(NDV, Uniform Distribution, Independence, Dynamic Sampling)(Staleness, Skew, Dependence, Defaulting, Out-Of-Bounds, Transiency, Bloat)Perfect your Question Based Analysis Techniqueand moreIncluded are: a special chapter for EXADATA, a LAB which demonstrates the cardinality based process of SQL Tuning, and twenty three magical SQL scripts that make the process of SQL tuning easy to do. Learn the skill of SQL Tuning as taught by an expert who does it for a living, and become the go-to specialist in your company. Chapter 1: DRIVING TABLE and JOIN ORDERChapter 2: Ways to Use a Query Execution PlanChapter 3: The Best Indexes for a QueryChapter 4: JOINSChapter 5: HINTSChapter 6: BASICSChapter 7: ROW COUNTS and RUN TIMESChapter 8: EXADATALAB: Reverse Engineering the QEPAppendix: Know Your ScriptsScripts for analyzing queries and plansScripts for examining an active databaseScripts for looking at

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## **Book Information**

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#### **Customer Reviews**

This is a great book on SQL tuning for Oracle. I have several years of experience yet I still have lot to learn, esp in SQL tuning. There are several books in the market which are a rehash of the manuals or just skim over this topic or too hard to follow. This book takes the basic topics related to SQL tuning and presents them in a logical and coherent manner. I learned a lot about reading the sql statements and the plans, tuning the SQLs, look for hot spots and apply a standard approach to tuning. The book lays the foundation to understand SQL, takes you through a series of journeys into the SQL world which is helpful to understand SQL tuning. Each chapter deals with specific topic. The first chapter provides a good set of basic building blocks on how to tune queries. Great ideas with the FRP method approach. After reading the first chapter I tuned a query with several underlying tables by selecting a 'driving table'. The second chapter explains cardinalities and why cardinalities are important and how the plans could go for a toss if cardinalities are off. I have read about the cardinalities in several other places on the internet, but the chapter explains the whole thing from the basics. A must read for any tuner. Chapter 3 elaborates how to choose indexes and deals with ACCESS, FILTER and post table filtering predicates. The fourth chapter is on joins. This is the best chapter of the book in my view. The chapter deals with the most commonly used join methods such as nested loops, sort merge, etc and goes on to explain in detail the mechanisms involved under the hood. It also talks about when each case would be a best fit and its limitations and the most common problems each join method faces.

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