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# Oracle Sql Tuning Guide

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Oracle SQL\*Plus Pocket Reference  
Everything Developers Need to Know about SQL Performance  
Oracle Database 11g The Complete Reference  
Optimizing Oracle Performance  
Oracle Performance Survival Guide  
Oracle 11g New Features  
It's All about the Cardinalities  
SQL Design Patterns  
ORACLE High-Performance SQL Tuning  
A Guide for Data Administrators, Developers, and Business Analysts  
The Definitive Guide  
Oracle Tuning  
Oracle Database 12c The Complete Reference  
SQL Performance Tuning  
Oracle SQL\*Plus  
Advanced Oracle PL/SQL Developer's Guide  
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Oracle Sql Tuning Guide by guest

## **EVA MAXIM**

### **Oracle SQL\*Plus Pocket Reference**

"O'Reilly Media, Inc."

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 tuning Determine a query's Driving Table and Join Order Construct Query Diagrams, Data Models, and Join Trees Build and use Count / Filter / and Reconstruction Queries Identify Waste in a Query Execution Plan Zero in on Cardinality Divergence using Estimated vs. Actuals Use the ACCESS / FILTER / COVERAGE strategy to build indexes for Problem Queries Exploit THE 2% RULE in analyzing Access method and Join method Classify queries as Precision Style

or Warehouse Style Understand Hash Join mechanics and make Hash Joins go faster Make HINTS work as Detection Tools rather than clubs Avoid early Database Design flaws Manage 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 Technique and more Included 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 ORDER Chapter 2: Ways to Use a Query Execution Plan Chapter 3: The Best Indexes for a Query Chapter 4: JOINS Chapter 5: HINTS Chapter 6: BASICS Chapter 7: ROW COUNTS and RUN TIMES Chapter 8: EXADATA LAB: Reverse Engineering the QEP Appendix: Know Your

Scripts Scripts for analyzing queries and plans Scripts for examining an active database Scripts for looking at metadata showplan showplanshort showplanconstraints showplancountqueries showplandatamodel showplandrivingtable showplanfilterqueries showplanfrpspreadsheetcode showplanindexes showplannumrows showplanquerydiagram showplantables showplantablesunique loadplanfromcache loadplanfromhist showtopcpu showowner showindexes showconstraints showcolstats showhistograms showallscanrates showallworkareas It's all about the Cardinalities **Everything Developers Need to Know about SQL Performance** Prentice Hall One of the most important challenges faced by Oracle database administrators and Oracle developers is the need to tune SQL statements so that they execute efficiently. Poorly tuned SQL statements are one of the leading causes of substandard database performance and poor response time. SQL statements that perform

poorly result in frustration for users, and can even prevent a company from serving its customers in a timely manner. In this book, Mark Gurry shares his in-depth knowledge of Oracle's SQL statement optimizers. Mark's knowledge is the result of many hard-fought tuning battles during his many years of providing Oracle tuning services to clients. Mark provides insights into the workings of the rule-based optimizer that go well beyond what the rules tell you. Mark also provides solutions to many common problems that occur with both the rule-based and cost-based optimizers. In addition to the specific problem/solution scenarios for the optimizers, Mark provides a number of handy SQL tuning tips. He discusses the various optimizer hints, telling you when they can be used to good effect. Finally, Mark discusses the use of the DBMS\_STATS package to manage database statistics, and the use of outlines to specify execution plans for SQL statements in third-party applications that you can't otherwise modify.

[Oracle Database 11g The Complete Reference](#)  
Apress

A guide to the new features of Oracle Database 11g covers such topics as architectural changes, database administration upgrades, security enhancements, and programming innovations.

*Optimizing Oracle Performance* Addison-Wesley Professional

When your database application isn't running fast enough, troubleshooting is usually your first move. Finding the slow part of an application is often easy, but discovering a solution can prove much more difficult. Troubleshooting Oracle Performance helps by providing a systematic approach to addressing the underlying causes of poor database application performance. Written for developers by an application developer who has learned by doing, this book shows you how to plan for performance as you would for any other application requirement.

**Oracle Performance Survival Guide** Rampant Techpress

Proven Database Optimization Solutions—Fully Updated for Oracle Database 12c Release 2 Systematically identify and eliminate database performance problems with help from

Oracle Certified Master Richard Niemiec. Filled with real-world case studies and best practices, *Oracle Database 12c Release 2 Performance Tuning Tips and Techniques* details the latest monitoring, troubleshooting, and optimization methods. Find out how to identify and fix bottlenecks on premises and in the cloud, configure storage devices, execute effective queries, and develop bug-free SQL and PL/SQL code. Testing, reporting, and security enhancements are also covered in this Oracle Press guide.

- Properly index and partition Oracle Database 12c Release 2
- Work effectively with Oracle Cloud, Oracle Exadata, and Oracle Enterprise Manager
- Efficiently manage disk drives, ASM, RAID arrays, and memory
- Tune queries with Oracle SQL hints and the Trace utility
- Troubleshoot databases using V\$ views and X\$ tables
- Create your first cloud database service and prepare for hybrid cloud
- Generate reports using Oracle's Statspack and Automatic Workload Repository tools
- Use sar, vmstat, and iostat to monitor operating system statistics

[Oracle 11g New Features](#)

## Apress

The Definitive Guide to Oracle Database 11g Get full details on the powerful features of Oracle Database 11g from this thoroughly updated Oracle Press guide. Oracle Database 11g: The Complete Reference explains how to use all the new features and tools, execute powerful SQL queries, construct PL/SQL and SQL\*Plus statements, and work with large objects and object-relational databases. Learn how to implement the latest security measures, tune database performance, and deploy grid computing techniques. An invaluable cross-referenced appendix containing Oracle commands, keywords, features, and functions is also included. Install Oracle Database 11g or upgrade from an earlier version Create database tables, sequences, indexes, views, and user accounts Construct SQL statements, procedures, queries, and subqueries Optimize security using virtual private databases and transparent data encryption Import and export data using SQL\*Loader and Oracle Data Pump Use SQL replay, change

management, and result caching Avoid human errors using flashback and automatic undo management Build and tune PL/SQL triggers, functions, and packages Develop database applications using Java, JDBC, and XML Optimize availability and scalability with Oracle Real Application Clusters **It's All about the Cardinalities** Packt Publishing Ltd An interactive guide to Oracle's intensive query tool, SQL\* Plus, discusses its powerful features, furnishes a syntax quick reference, and explains how to write and execute script files, generate reports, extract data from the database, utilize new administrative features, query data dictionary tables, and more. Original. (Intermediate) *SQL Design Patterns* Prentice Hall Ptr The Oracle SQLPlus Pocket Reference is a must-have for anyone working with Oracle databases, especially those looking to maximize the effectiveness of SQLPlus. As Oracle's long-standing interactive query tool, SQLPlus is available at every Oracle site, from the largest data warehouse to the smallest single-user system.

Despite its wide use, however, SQLPlus is still often not completely understood or fully utilized. Database administrators and developers alike will therefore find the Oracle SQLPlus Pocket Reference to be extremely beneficial. In addition to summarizing all of the SQLPlus syntax and format options, including new Oracle Database 10g features, this handy, on-the-job guide specifically shows readers how to: Differentiate between SQL and SQLPlus Interact with SQLPlus from both the command line and the web browser Select, insert, update, and delete data Format both text and HTML reports with SQLPlus Specify SQLPlus commands and format elements Tune SQL queries The new third edition of this book has been updated for Oracle Database 10g to include information on both SQL\*Plus and SQL. New SQL information includes the SELECT statement's new MODEL clause, flashback queries, partition outer joins, and DBMS\_XPLAN. With its quick-reference format and compact size, the Oracle SQLPlus Pocket Reference follows in the long line of successful

"pocket references" offered by O'Reilly. It also serves as the ideal companion to O'Reilly's larger, more comprehensive book on SQLPlus, the bestselling Oracle SQL\*Plus: The Definitive Guide. Author Jonathan Gennick is an editor for O'Reilly specializing in database and programming titles, having amassed some 17 years of programming and database management experience.

*ORACLE High-Performance SQL Tuning*  
Apress

Oracle SQL Tuning with SQLTXPLAIN is a practical guide to SQL tuning the way Oracle's own experts do it, using a freely downloadable tool called SQLTXPLAIN. Using this simple tool you'll learn how to tune even the most complex SQL, and you'll learn to do it quickly, without the huge learning curve usually associated with tuning as a whole. Firmly based in real world problems, this book helps you reclaim system resources and avoid the most common bottleneck in overall performance, badly tuned SQL. You'll learn how the optimizer works, how to take advantage of its latest features, and when it's better to turn them

off. Quickly tune any SQL statement no matter how complex. Build and tune test cases without affecting production. Use the latest tuning features with confidence.

*A Guide for Data Administrators, Developers, and Business Analysts* "O'Reilly Media, Inc."

There are three parts to tuning an Oracle database: data modeling, SQL code tuning and physical database configuration. A data model contains tables and relationships between tables. Tuning a data model involves normalization and de-normalization. Different approaches are required depending on the application, such as OLTP or a Data Warehouse. Inappropriate database design can make SQL code impossible to tune. Poor data modeling can have a most profound effect on database performance since all SQL code is constructed from the data model. Poorly written SQL code is often a culprit of performance problems and is expensive to rectify. However, tuning of SQL code is generally cheaper than changing the data model. SQL code tends to be contained inside

independent blocks within applications or stored procedures. Physical database tuning involves hardware resource usage, networking and various other Oracle things such as configuration and file distribution. Physical configuration is often a culprit of poor performance where Oracle is installed with defaults, and never altered by an expert.

\*Includes all three aspects of Oracle database tuning: data model tuning, SQL & PL/SQL code tuning, physical plus configuration tuning  
\*Contains experienced guidance and real-world examples using large datasets \*Emphasizes development as opposed to operating system perspective

### **The Definitive Guide**

Tata McGraw-Hill Education

Maintain a high-performance Oracle9i environment using the proven tuning methods presented in this authoritative resource. This book offers hundreds of essential tips guaranteed to enhance system performance. Real-world examples illustrate insider best practices and in-depth details throughout the book highlight the new

tuning options available in Oracle9i.

### **Oracle Tuning**

CreateSpace

Oracle system

performance inefficiencies

often go undetected for

months or even years--

even under intense

scrutiny--because

traditional Oracle

performance analysis

methods and tools are

fundamentally flawed.

They're unreliable and

inefficient.Oracle DBAs

and developers are all too

familiar with the outlay of

time and resources, blown

budgets, missed

deadlines, and marginally

effective performance

fiddling that is

commonplace with

traditional methods of

Oracle performance

tuning. In this crucial

book, Cary Millsap, former

VP of Oracle's System

Performance Group,

clearly and concisely

explains how to use

Oracle's response time

statistics to diagnose and

repair performance

problems. Cary also

shows how "queueing

theory" can be applied to

response time statistics to

predict the impact of

upgrades and other

system

changes.Optimizing

Oracle Performance

eliminates the time-

consuming, trial-and-error

guesswork inherent in

most conventional

approaches to tuning. You

can determine exactly

where a system's

performance problem is,

and with equal

importance, where it is

not, in just a few minutes-

-even if the problem is

several years

old.Optimizing Oracle

Performance cuts a path

through the complexity of

current tuning methods,

and streamlines an

approach that focuses on

optimization techniques

that any DBA can use

quickly and successfully

to make noticeable--even

dramatic--

improvements.For

example, the one thing

database users care most

about is response time.

Naturally, DBAs focus

much of their time and

effort towards improving

response time. But it is

entirely too easy to spend

hundreds of hours to

improve important system

metrics such as hit ratios,

average latencies, and

wait times, only to find

users are unable to

perceive the difference.

And an expensive

hardware upgrade may

not help either.It doesn't

have to be that way.

Technological advances

have added impact,

efficiency, measurability,

predictive capacity,

reliability, speed, and

practicality to the science

of Oracle performance

optimization. Optimizing

Oracle Performance

shows you how to slash

the frustration and

expense associated with

unraveling the true root

cause of any type of

performance problem,

and reliably predict future

performance.The price of

this essential book will be

paid back in hours saved

the first time its methods

are used.

*Oracle Database 12c The*

*Complete Reference*

Elsevier

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Party sellers are not

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authenticity, or access to

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included with the product.

From the official Oracle

Press comes a

comprehensive guide to

tuning SQL statements for

optimal execution This

expert resource explains

how to view the internal

execution plan of any SQL

statement and change it

to improve the

performance of the

statement. You'll get

details on Oracle's

optimizer modes, SQL

extensions, the

STATSPACK utility, and a

wealth of methods for

tuning Oracle SQL

statements.

*SQL Performance Tuning*  
McGraw Hill Professional  
This indispensable SQL reference book is the first of its kind to leverage the benefits of design patterns to relational database SQL queries; all common SQL structures and design patterns are clearly categorized and described. Emphasizing the theoretical foundation for almost every type of SQL query problem, accompanying figures are included to help visualize the problem. Because SQL is a declarative language there are many ways to write any SQL query and professional database programmers must understand the correct way to write SQL for complicated database queries, and managers must institute formal SQL coding standards to improve productivity and maintainability. The SQL design patterns in this resource greatly improve the quality and productivity of systems development projects by forming a "best practices" foundation for all relational database queries.

*Oracle SQL\*Plus* McGraw Hill Professional  
If you have mastered the fundamentals of the PL/SQL language and are

now looking for an in-depth, practical guide to solving real problems with PL/SQL stored procedures, then this is the book for you.

*Advanced Oracle PL/SQL Developer's Guide*

McGraw Hill Professional  
CD-ROM contains:

Practice database --  
Sample scripts reference  
in text.

*A Systematic Approach to Database Optimization*

"O'Reilly Media, Inc."

Build and manage your Oracle Database XE environment with this fast paced, practical guide  
Oracle SQL High-performance Tuning  
Apress

Troubleshoot, tune, and optimize your Oracle database efficiently and successfully every time. This book explains how to take full advantage of the revolutionary Oracle Wait Interface to quickly pinpoint--and solve--core problems and bottlenecks, and increase productivity exponentially.

**Oracle Advanced PL/SQL Developer Professional Guide**

Apress  
Proven PL/SQL Optimization Solutions In Oracle PL/SQL Performance Tuning Tips & Techniques, Oracle ACE authors with decades of experience building

complex production systems for government, industry, and educational organizations present a hands-on approach to enabling optimal results from PL/SQL. The book begins by describing the discovery process required to pinpoint performance problems and then provides measurable and repeatable test cases. In-depth coverage of linking SQL and PL/SQL is followed by deep dives into essential Oracle Database performance tuning tools. Real-world examples and best practices are included throughout this Oracle Press guide. Follow a request-driven nine-step process to identify and address performance problems in web applications Use performance-related database tools, including data dictionary views, logging, tracing, PL/SQL Hierarchical Profiler, PL/Scope, and RUNSTATS Instrument code to pinpoint performance issues using call stack APIs, error stack APIs, and timing markers Embed PL/SQL in SQL and manage user-defined functions Embed SQL in PL/SQL using a set-based approach to handle large volumes of data Properly

write and deploy data manipulation language triggers to avoid performance problems Work with advanced datatypes, including LOBs and XML Use caching techniques to avoid redundant operations Effectively use dynamic SQL to reduce the amount of code needed and streamline system management Manage version control and

ensure that performance fixes are successfully deployed Code examples in the book are available for download.  
[Oracle Database 12c Release 2 Testing Tools and Techniques for Performance and Scalability](#) McGraw Hill Professional  
 Targeted at Oracle professionals who need fast and accurate working examples of complex

issues, Oracle In-focus books target specific areas of Oracle technology in a concise manner. Plenty of working code is provided without a lot of theory, allowing database managers to solve their problems quickly without reviewing data that they already know. All code scripts are available for instant download from a companion web site.

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