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## ~~Tuning Tips~~

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Schema. Step 1: Key Vector and Temporary Table Creation for geography Dimension. Step 2: Key Vector and Temporary Table Creation for products Dimension. Step 3: Key Vector Query Transformation. Step 4: Row Filtering from Fact Table. Step 5: Aggregation Using an Array.

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Oracle Database SQL Tuning Guide,  
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Wondering how to do performance

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tuning in Oracle, specifically? Oracle is a relational database management system (RDBMS), and it utilizes Structured Query Language (SQL) to enable communication between applications and the database. Performance tuning is the process of optimizing Oracle performance by

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streamlining the execution of SQL statements. In other words, performance tuning simplifies the process of accessing and altering information contained by the database with the intention of ...

Ultimate Guide to Oracle Performance

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statements and query execution plans so that the requests can be completed more efficiently. The organization of a database the SQL statements used to access that data, determine the level of resources needed to respond to queries when an application communicates with the database.

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include examples of all queries seen on the system. SQL plans and metrics stored in ASTS are useful for repairing SQL performance regressions quickly using SQL plan management.

Automatic SQL Tuning Set -  
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statements and access recommendations on how to modify queries to improve performance. DPA's range of features guide the Oracle view performance tuning process, providing actionable advice and advanced analysis capabilities, all within a single interface. Getting

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Started With DPA

Oracle View Performance Tuning -  
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31. SQL Tuning Advisor and SQL  
Access Advisor can be used for  
system advice on tuning specific SQL  
and their join and access paths,



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however, advice generated by these tools may not be always applicable (point 28). 32. SQL Access paths for joins are an component determining query execution time.

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so that the requests can be completed more efficiently. The organization of a database the SQL statements used to access that data, determine the level of resources needed to respond to queries

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Automatic Workload Repository. The SQLT settings enable or disable access to these features from SQLT. Amazon RDS supports the following settings for the SQLT option. Adding the SQLT Option

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answers to these questions and addresses a third issue that's even more important: how to find the optimal execution plan for the query to use. Author Dan Tow outlines a timesaving method he's developed for finding the optimum execution plan--rapidly and

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to reinforce the concepts you've learned. SQL Tuning concludes by addressing special concerns and unique solutions to "unsolvable problems." Whether you are a programmer who develops SQL-based applications or a database administrator or other who

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troubleshoots poorly tuned applications, SQL Tuning will arm you with a reliable and deterministic method for tuning your SQL queries to gain optimal performance.

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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,

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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.

One of the most important challenges

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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

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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

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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



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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

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database statistics, and the use of outlines to specify execution plans for SQL statements in third-party applications that you can't otherwise modify.

Written by a Senior Database  
Administrator who has worked with the

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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

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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

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Execution Plan Zero in on Cardinality  
Divergence using Estimated vs.  
Actuals Use the ACCESS / FILTER /  
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RULE in analyzing Access method  
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Precision Style or Warehouse Style

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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)

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(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

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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



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Chapter 3: The Best Indexes for a Query  
Chapter 4: JOINS  
Chapter 5: HINTS  
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Appendix: Know Your Scripts  
Scripts for analyzing queries and plans  
Scripts for

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examining an active database Scripts  
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## Cardinalities

Canada was young during the First World War, and with as many as 20,000 underage soldiers leaving their homes to join the war effort, the country's army was, too. Jim, at 17, was one of them, and he penned

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countless letters home. But these weren't the writings of an ordinary boy. They were the letters of a lad who left a small farming community for the city on July 15, 1915, a boy who volunteered to serve with the 79th Queen's Own Cameron Highlanders. Jim's letters home gloss over the

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horrors of war, focusing instead on issues of the home front: of harvesting, training the horses, and the price of hogs. Rarely do these letters, especially those to his mother and father, mention the mud and rats, the lice and stench of the trenches, or the night duty of cutting barbed wire in no

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man's land. For 95 years his letters remained in a shoebox decorated by his mother. Jim was just 18 when he was wounded and died during the Battle of the Somme. Hold the Oxo! tells the story that lies between the lines of his letters, filling in the historical context and helping us to

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understand what it was like to be Jim.

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development." --Mike Frey, Principal  
Architect, Navteq

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Tips & Techniques, Oracle ACE  
authors with decades of experience  
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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

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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

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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,

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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

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datatypes, including LOBs and XML  
Use caching techniques to avoid  
redundant operations Effectively use  
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code needed and streamline system  
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- Making the most of Oracle's core tools for tracing, monitoring, and diagnosing

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performance

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