

1. Record Nr.	UNINA9910808544003321
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Titolo	Oracle Database 11gR2 performance tuning cookbook : over 80 recipes to help beginners achieve better performance from Oracle Database applications // Ciro Fiorillo
Pubbl/distr/stampa	Birmingham, U.K., : Packt Enterprise, 2012
ISBN	1-283-45344-4 9786613453440 1-84968-261-5
Edizione	[1st edition]
Descrizione fisica	1 online resource (543 p.)
Disciplina	005.75/85 005.7575
Soggetti	Relational databases Database management
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Includes index. "Quick answers to common problems"--Cover.
Nota di bibliografia	Includes index.
Nota di contenuto	Cover; Copyright; Credits; About the Author; Acknowledgement; About the Reviewers; www.PacktPub.com; Table of Contents; Preface; Chapter 1: Starting with Performance Tuning; Introduction; Reviewing the performance tuning process; Exploring the example database; Acquiring data using a data dictionary and dynamic performance views; Analyzing data using Statspack reports; Diagnosing performance issues using the alert log; Analyzing data using Automatic Workload Repository (AWR); Analyzing data using Automatic Database Diagnostic Monitor (ADDM); A working example Chapter 2: Optimizing Application DesignIntroduction; Optimizing connection management; Improving performance sharing reusable code; Reducing the number of requests to the database using stored procedures; Reducing the number of requests to the database using sequences; Reducing the number of requests to the database using materialized views; Optimizing performance with schema denormalization; Avoiding dynamic SQL; Chapter 3: Optimizing Storage Structures; Introduction; Avoiding row chaining; Avoiding row

migration; Using LOBs; Using index clusters; Using hash clusters  
Indexing the correct wayRebuilding index; Compressing indexes; Using  
reverse key indexes; Using bitmap indexes; Migrating to index  
organized tables; Using partitioning; Chapter 4: Optimizing SQL Code;  
Introduction; Using bind variables; Avoiding full table scans; Exploring  
index lookup; Exploring index skip-scan and index range-scan;  
Introducing arrays and bulk operations; Optimizing joins; Using  
subqueries; Tracing SQL activity with SQL Trace and TKPROF; Chapter 5:  
Optimizing Sort Operations; Introduction; Sorting-in-memory and on-  
disk; Sorting and indexing; Writing top n queries and ranking  
Using count, min/max, and group-byAvoiding sorting in set  
operations: union, minus, and intersect; Troubleshooting temporary  
tablespaces; Chapter 6: Optimizing PL/SQL Code; Introduction; Using  
bind variables and parsing; Array processing and bulk-collect; Passing  
values with NOCOPY (or not); Using short-circuit IF statements;  
Avoiding recursion; Using native compilation; Taking advantage of  
function result cache; Inlining PL/SQL code; Using triggers and virtual  
columns; Chapter 7: Improving the Oracle Optimizer; Introduction;  
Exploring optimizer hints; Collecting statistics; Using histograms  
Managing stored outlinesIntroducing Adaptive Cursor Sharing for bind  
variable peeking; Creating SQL Tuning Sets; Using the SQL Tuning  
Advisor; Configuring and using SQL Baselines; Chapter 8: Other  
Optimizations; Introduction; Caching results with the client-side result  
cache; Enabling parallel SQL; Direct path inserting; Using create table as  
select; Inspecting indexes and triggers overhead; Loading data with  
SQL\*Loader and Data Pump; Chapter 9: Tuning Memory; Introduction;  
Tuning memory to avoid Operating System paging; Tuning the Library  
Cache; Tuning the Shared Pool  
Tuning the Program Global Area and the User Global Area

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## Sommario/riassunto

In this book you will find both examples and theoretical concepts covered. Every recipe is based on a script/procedure explained step-by-step, with screenshots, while theoretical concepts are explained in the context of the recipe, to explain why a solution performs better than another. This book is aimed at software developers, software and data architects, and DBAs who are using or are planning to use the Oracle Database, who have some experience and want to solve performance problems faster and in a rigorous way. If you are an architect who wants to design better applications, a DBA who is

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