

<<OCP Oracle9i Databas>>

图书基本信息

书名：<<OCP Oracle9i Database Performance Tuning考试指南>>

13位ISBN编号：97871111104490

10位ISBN编号：71111104498

出版时间：2002-8-1

出版时间：机械工业出版社

作者：Charles A.Pack

页数：470

版权说明：本站所提供下载的PDF图书仅提供预览和简介，请支持正版图书。

更多资源请访问：<http://www.tushu007.com>

## <<OCP Oracle9i Databas>>

### 书籍目录

- ACKNOWLEDGMENTS
- INTRODUCTION
- PART I
- OCP Tuning Exam Guide
- 1 Database Tuning Overview
- How This Book Is Organized
- Topics Covered in the OCP OBA Tuning Exam
- The Oracle Performance Tuning Methodology
- Diagnostics and Tuning Tools
- Sizing the Shared Pool
- Sizing the Buffer Cache
- Sizing Other SGA Structures
- Database Configuration and I/O Issues
- Optimizing Sort Operations
- Diagnosing Contention for Latches
- Tuning Rollback or UNDO Segments
- Monitoring and Detecting Lock Contention
- Tuning Oracle Shared Server
- Application Tuning
- Using Oracle Blocks Efficiently
- SQL Statement Tuning
- OS Considerations
- Tuning Overview
- Why Do We Performance Tune?
- What Is Performance Tuning?
- Where Do I Tune?
- How Do I Performance Tune?
- When Do I Tune?
- How Do I Know If My Performance Tuning Efforts Are Actually Working?
- To Advance Your Tuning Knowledge
- 2 Oracle Performance Tuning Methodology
- Oracle Performance Tuning Method
- Describe the Roles Associated with the Database Tuning Process
- Describe the Dependency Between Tuning in Different Development Phases
- Describe SLAs
- Describe the Tuning Goals
- Describe the Most Common Tuning Problems
- Describe Tuning Goals Associated with Different Types of Applications
- Performance and Safety Trade-Offs
- Chapter Summary
- Two-Minute Drill
- Chapter Questions

## <<OCP Oracle9i Databas>>

Answers to Chapter Questions  
3 Diagnostic and Tuning Tools  
Diagnostic and Tuning Tools  
The Data Dictionary and Dynamic Performance Views Related to Tuning  
Data Dictionary Views  
How the ANALYZE Command Is Used with Data  
Dictionary Views  
Dynamic Performance Views  
Current State Views  
Accumulator Views  
Informational Views  
Statistics in the Dynamic Performance Views  
Instance/Database Performance Views  
Memory  
Disk  
Contention  
Session-Related  
What Is Statspack?  
Installing and Configuring Statspack  
Interactive or Batch Installations  
Statspack Maintenance  
Configuring Statspack Statistics Gathering  
Collect Statistics Using Statspack  
Take a Snapshot  
Automating Snapshots  
Producing a Performance Report  
Contents of the Statspack Performance Report  
Other Tools That Can Be Used for Tuning  
UTLBSTATUTLESTAT  
OEM Oracle Expert  
Custom Tools  
The A1ert Log and Trace Files  
Instance Alert Log  
Trace User SQL  
Chapter Summary  
Two-Minute Drill  
Chapter Questions  
Answers to Chapter Questions  
4 Sizing the Shared Pool  
Sizing the Shared Pool  
Shared Pool Concepts  
Measure and Tune the Library Cache Hit Ratio  
Size and Pin Objects in the Shared Pool  
Tune the Shared Pool Reserve Space  
Measure and Tune the Dictionary Cache Hit Ratio  
Describe UGA and Session Memory Considerations  
Setting the Large Pool

<<OCP Oracle9i Databas>>

Chapter Summary  
 Two-Minute Drill  
 Chapter Questions  
 Answers to Chapter Questions  
 5 Sizing the Buffer Cache  
 Sizing the Buffer Cache  
 Describe How the Buffer Cache Is Used by Different  
 Oracle Processes  
 Describe the Tuning Issues Related to the Buffer Cache  
 Getting Advice about the Buffer Cache Size  
 Implement Dynamic SGA Allocation  
 Monitor the Use of the Buffer Cache and the Different  
 Pools Within the Buffer Cache  
 Create and Size Multiple Buffer Pools  
 Make Appropriate Use of Table Caching  
 Diagnose LRU Latch Contention  
 Diagnose Freelist Contention  
 Deprecated Buffer Cache Parameters  
 Chapter Summary  
 Two-Minute Drill  
 Chapter Questions  
 Answers to Chapter Questions  
 6 Sizing Other SGA Structures  
 Sizing Other SGA Structures  
 Monitor and Size the Redo Log Buffer  
 Monitor and Size the Java Pool  
 Limit the Amount of Java Session Memory Used by a Session  
 Configuring I/O Slaves  
 Configuring Multiple DBW Processes  
 Chapter Summary  
 Two-Minute Drill  
 Chapter Questions  
 Answers to Chapter Questions  
 7 Database Configuration and I/O Issues  
 Database Configuration and I/O Issues  
 Describe Reasons for Distributing Different Oracle File Types  
 Diagnose Inappropriate Use of Tablespaces  
 Tune Full Table Scan Operations  
 Describe How Checkpoints Work  
 Monitor and Tune Checkpoints  
 Monitor and Tune Redo Logs  
 Chapter Summary  
 Two-Minute Drill  
 Chapter Questions  
 Answers to Chapter Questions  
 8 Optimize Sort Operations  
 Optimize Sort Operations

## <<OCP Oracle9i Databas>>

Describe How Sorts Are Performed in Oracle  
 Set Old and New Sort Parameters  
 Describe the Operations That Cause Sorting  
 Differentiate Between Disk and Memory Sorts  
 Create and Monitor Temporary Tablespaces  
 Describe Ways to Reduce Total Sorts and Disk Sorts  
 Chapter Summary  
 Two-Minute Drill  
 Chapter Questions  
 Answers to Chapter Questions  
 9 Diagnosing Contention for Latches  
 Diagnosing Contention for Latches  
 Describe the Purpose of Latches  
 Describe the Different Types of Latch Requests  
 Describe How to Diagnose Contention for Latches  
 Identify the Resources to Be Tuned to Minimize Latch Contention  
 Chapter Summary  
 Two-Minute Drill  
 Chapter Questions  
 Answers to Chapter Questions  
 10 Tuning Rollback or Undo Segments  
 Tuning Rollback/Undo Segments  
 Use the Dynamic Performance Views to Check Rollback  
 Segment Performance  
 Define the Number and Size of Manual Rollback Segments  
 Appropriately Allocate Rollback Segments to Transactions  
 Understand and Explain the Concept of Automatic Undo  
 Management  
 Create and Maintain Automatically Managed Undo Tablespace.  
 Chapter Summary  
 Two-Minute Drill  
 Chapter Questions  
 Answers to Chapter Questions  
 11 Monitoring and Detecting Lock Contention  
 Monitoring and Detecting Lock Contention  
 Define Levels of Locking  
 Describe Possible Causes of Contention  
 Use Oracle Utilities to Detect Lock Contention  
 Resolve Contention in an Emergency  
 Prevent Locking Problems  
 Recognize Oracle Errors Arising from Deadlocks  
 Chapter Summary  
 Two-Minute Drill  
 Chapter Questions  
 Answers to Chapter Questions  
 12 Tuning Oracle Shared Server  
 Tuning Oracle Shared Server

## <<OCP Oracle9i Databas>>

Identifying Issues Associated with Managing Users in a Shared Server Environment  
Diagnosing and Resolving Performance Issues with Shared Server Processes  
Configure the Shared Server Environment to Optimize Performance  
Chapter Summary  
Two-Minute Drill  
Chapter Questions  
Answers to Chapter Questions  
13 Application Tuning  
Application Tuning  
Describe the Role of the DBA in Tuning Applications  
Explain Different Storage Structures  
Explain and Describe Clustering Options  
Explain the Different Types of Indexes  
Explain IOTs  
Describe Materialized Views and the Use of Query Rewrites  
List Requirements for OLTP, DSS, and Hybrid Systems  
Chapter Summary  
Two-Minute Drill  
Chapter Questions  
Answers to Chapter Questions  
14 Using Oracle Blocks Efficiently  
Using Oracle Blocks Efficiently  
Describe the Correct Usage of Extents and Oracle Blocks  
Explain Space Usage and the High Watermark  
Determine the High Watermark  
Recover Space from Sparsely Populated Segments  
Describe the Use of Oracle Block Parameters  
Describe and Detect Chaining and Migration of Oracle Blocks  
Perform Index Reorganization  
Monitor Indexes to Determine Usage  
Chapter Summary  
Two-Minute Drill  
Chapter Questions  
Answers to Chapter Questions  
15 SQL Statement Tuning  
SQL Statement Tuning  
Describe How the Optimizer Is Used  
Explain the Concept of Plan Stability.  
Use of Stored Outlines  
Describe How Hints Are Used  
Collect Statistics on Indexes and Tables  
Describe the Use of Histograms  
Copy Statistics Between Databases  
OLTP and OSS Considerations

<<OCP Oracle9i Databas>>

Use SQL Trace and TKPROF  
Chapter Summary  
Two-Minute Drill  
Chapter Questions  
Answers to Chapter Questions  
16 OS Considerations and Oracle Resource Manager  
OS Considerations  
Describe Different System Architectures  
Understand Virtual Memory and Paging  
Describe the Primary Steps of OS Tuning  
Identify Similarities Between OS and DB Tuning  
Explain the Difference Between a Process and a Thread  
Database Resource Manager  
Configuring Resource Management  
Administer Resource Manager  
Chapter Summary  
Two-Minute Drill  
Chapter Questions  
Answers to Chapter Questions  
PART II  
Practice Exams  
17 Practice Exam I and 2  
Practice Exam 1 Questions  
Answers to Practice Exam 1 Questions  
Practice Exam Two  
Practice Exam 2 Questions  
Answers to Practice Exam 2 Questions  
Glossary  
Index

版权说明

本站所提供下载的PDF图书仅提供预览和简介，请支持正版图书。

更多资源请访问:<http://www.tushu007.com>