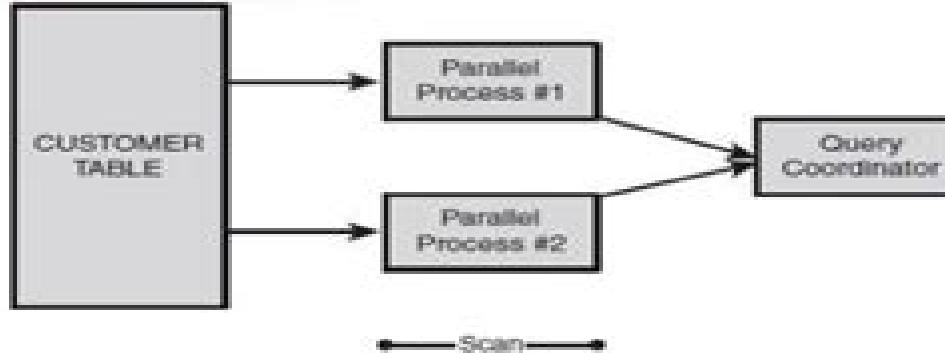
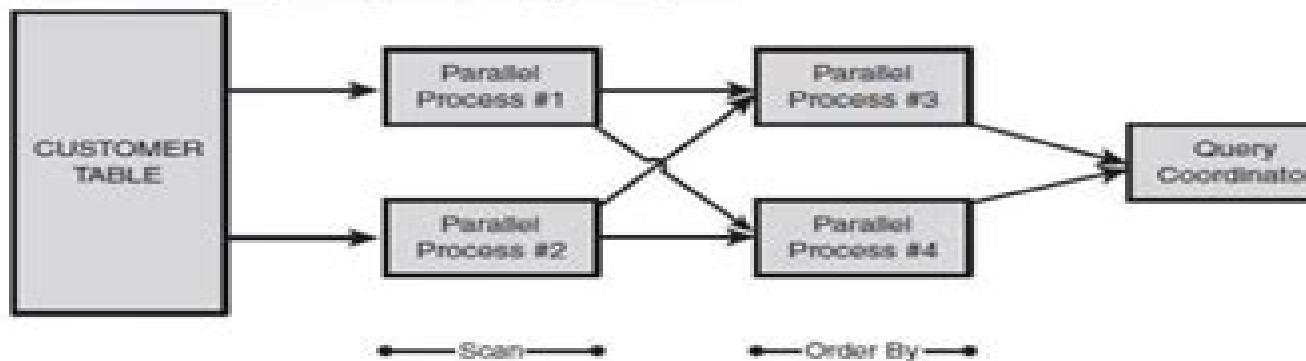


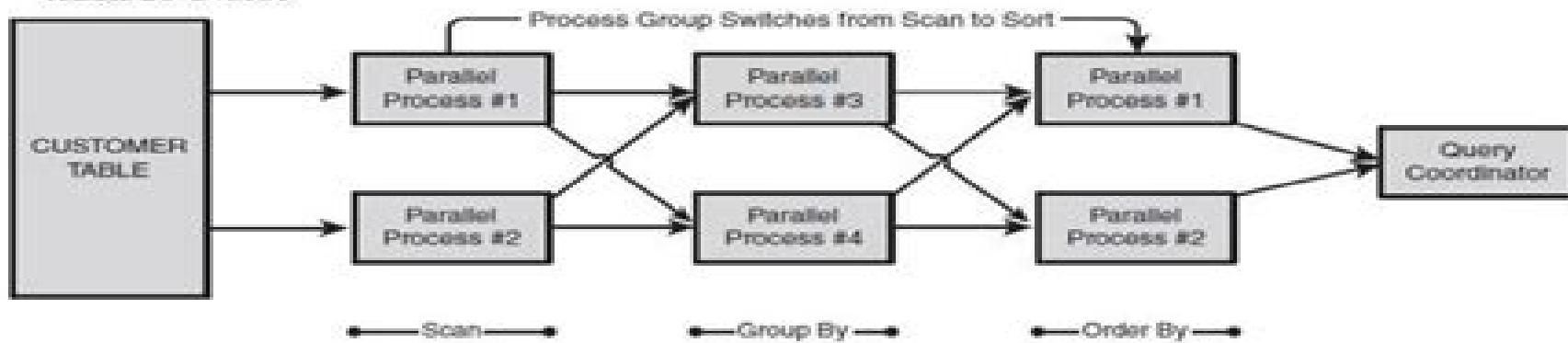
```
SELECT /*+ parallel(c,2) */ *
  FROM customers c
```



```
SELECT /*+ parallel(c,2) */ *
  FROM customers c
  ORDER BY cust_last_name, cust_first_name
```



```
SELECT /*+ parallel(c,2) */ cust_last_name, count(*)
  FROM customers c
 GROUP BY cust_last_name
 ORDER BY 2 desc
```



# Oracle Parallel Processing

**Edward Whalen, Steve Adrien DeLuca**

## **Oracle Parallel Processing:**

Oracle Parallel Processing Tushar Mahapatra,Sanjay Mishra,2000 Parallel processing is becoming increasingly important to database computing Databases often grow to enormous sizes and are accessed by huge numbers of users This growth strains the ability of single processor and single computer systems to handle the load More and more organizations are turning to parallel processing technologies to give them the performance scalability and reliability they need Anyone managing a large database a database with a large number of concurrent users or a database with high availability requirements such as a heavily trafficked e commerce site needs to know how to get the most out of Oracle s parallel processing technologies Oracle Parallel Processing is the first book to describe the full range of parallel processing capabilities in the Oracle environment including those new to Oracle8i It covers What is parallel processing features benefits and pitfalls Who needs it and who doesn t What features does Oracle provide and what are their requirements and overhead implications The book answers these questions and presents the various parallel architectures SMP or Symmetric Multiprocessing MPP or Massively Parallel Processing clustered systems and NUMA or Non Uniform Memory Access Oracle parallel execution Oracle supports a variety of parallel execution features in the database The book covers the use administration and tuning of these features parallel query parallel data loading parallel DML Data Manipulation Language parallel object creation through DDL or Data Definition Language and parallel replication propagation Oracle Parallel Server Oracle also provides the OPS option which work to be spread over both multiple CPUs and multiple nodes This book covers OPS architecture requirements administration tuning storage management recovery and application failover issues Oracle Parallel Processing also contains several case studies showing how to use Oracle s parallel features in a variety of real world situations

**Performance Evaluation of Oracle Parallel Execution** Pramukh Narayan Rao Jadhav,California State University, Sacramento,2011 To utilize the vast number of resources like multi processors and large amount of memory that are available with the new age computers Oracle has come out with Oracle Parallel Execution that enables to enhance the performance of queries by reducing the execution time and cost of execution In this project we will explain the types of queries that are eligible to be executed in a parallel order and analyze the enhancement in the performance of running these queries as compared to running them in a serial order We will be using Oracle 11g RDBMS and associated tools to gather and analyze data We will be using Oracle s Explain Plan utility to gather data about the execution plan used during the execution of the query and TKPROF to calculate the execution time count the reads and writes paging and the other resources used during the execution In this project we will also see how tuning certain system parameters can further enhance the performance of parallel query execution To estimate the performance of Oracle s Parallel Execution feature we will compare the performance of executing certain SQL statements using parallel execution versus the same statements run in serial order By optimizing query construction and by tuning the oracle database to facilitate for maximum utilization of the

available resources we can achieve a high degree performance enhancement both in execution time and in cost of execution

**Mining Very Large Databases with Parallel Processing** Alex A. Freitas,Simon H. Lavington,2012-12-06 Mining Very Large Databases with Parallel Processing addresses the problem of large scale data mining It is an interdisciplinary text describing advances in the integration of three computer science areas namely intelligent machine learning based data mining techniques relational databases and parallel processing The basic idea is to use concepts and techniques of the latter two areas particularly parallel processing to speed up and scale up data mining algorithms The book is divided into three parts The first part presents a comprehensive review of intelligent data mining techniques such as rule induction instance based learning neural networks and genetic algorithms Likewise the second part presents a comprehensive review of parallel processing and parallel databases Each of these parts includes an overview of commercially available state of the art tools The third part deals with the application of parallel processing to data mining The emphasis is on finding generic cost effective solutions for realistic data volumes Two parallel computational environments are discussed the first excluding the use of commercial strength DBMS and the second using parallel DBMS servers It is assumed that the reader has a knowledge roughly equivalent to a first degree BSc in accurate sciences so that s he is reasonably familiar with basic concepts of statistics and computer science The primary audience for Mining Very Large Databases with Parallel Processing is industry data miners and practitioners in general who would like to apply intelligent data mining techniques to large amounts of data The book will also be of interest to academic researchers and postgraduate students particularly database researchers interested in advanced intelligent database applications and artificial intelligence researchers interested in industrial real world applications of machine learning

Principles & Implementation of Datawarehousing Rajiv

Parida,2008-02 **Mastering Oracle SQL** Sanjay Mishra,Alan Beaulieu,2004 This title has a strong focus on practical expert best practices and on Oracle specific SQL technique It covers Oracle s vast library of built in functions and the full range of Oracle SQL query writing features **Network World** ,1995-07-03 For more than 20 years Network World has been the premier provider of information intelligence and insight for network and IT executives responsible for the digital nervous systems of large organizations Readers are responsible for designing implementing and managing the voice data and video systems their companies use to support everything from business critical applications to employee collaboration and electronic commerce **Oracle SQL\*Loader** Jonathan Gennick,Sanjay Mishra,2001 A step by step guide of all the tasks that Oracle developers and DBAs need to perform with SQL Loader Readable and informative this reference is a task oriented learning tool for those already using this utility **InfoWorld** ,1995-04-03 InfoWorld is targeted to Senior IT professionals Content is segmented into Channels and Topic Centers InfoWorld also celebrates people companies and projects Oracle9i UNIX Administration Handbook Donald K. Burleson,2002 The definitive book covering Oracle databases in UNIX environments the fastest growing segment of the Oracle database market This guide contains proven techniques and UNIX

scripts that can be used to perform dozens of UNIX related tasks *Teach Yourself Oracle8 in 21 Days* Edward Whalen,Steve Adrien DeLuca,1998 Understanding using and administrating an RDBMS Relational Database Management System can be a daunting task even with Oracle8 Oracle s new object oriented RDBMS This fact filled book provides step by step coverage of Oracle8 architecture managing database storage security backup recovery and tuning and optimization

Computerworld ,1995-07-17 For more than 40 years Computerworld has been the leading source of technology news and information for IT influencers worldwide Computerworld s award winning Web site Computerworld com twice monthly publication focused conference series and custom research form the hub of the world s largest global IT media network

*Oracle9i High-Performance Tuning with STATSPACK* Donald K. Burleson,2002-04-12 Publisher s Note Products purchased from Third Party sellers are not guaranteed by the publisher for quality authenticity or access to any online entitlements included with the product Get complete coverage of STATSPACK Oracle s powerful tuning tool inside this official guide Including ready to use STATSPACK scripts you ll be able to collect and analyze system data and soon have your Oracle database running at peak performance

**Real World SQL and PL/SQL: Advice from the Experts** Arup Nanda,Brendan Tierney,Heli Helskyaho,Martin Widlake,Alex Nuijten,2016-08-22 Master the Underutilized Advanced Features of SQL and PL SQL This hands on guide from Oracle Press shows how to fully exploit lesser known but extremely useful SQL and PL SQL features and how to effectively use both languages together Written by a team of Oracle ACE Directors Real World SQL and PL SQL Advice from the Experts features best practices detailed examples and insider tips that clearly demonstrate how to write troubleshoot and implement code for a wide variety of practical applications The book thoroughly explains underutilized SQL and PL SQL functions and lays out essential development strategies Data modeling advanced analytics database security secure coding and administration are covered in complete detail Learn how to Apply advanced SQL and PL SQL tools and techniques Understand SQL and PL SQL functionality and determine when to use which language Develop accurate data models and implement business logic Run PL SQL in SQL and integrate complex datasets Handle PL SQL instrumenting and profiling Use Oracle Advanced Analytics and Oracle R Enterprise Build and execute predictive queries Secure your data using encryption hashing redaction and masking Defend against SQL injection and other code based attacks Work with Oracle Virtual Private Database Code examples in the book are available for download at [www.MHProfessional.com](http://www.MHProfessional.com) TAG For a complete list of Oracle Press titles visit [www.OraclePressBooks.com](http://www.OraclePressBooks.com)

**Oracle Design: The Definitive Guide** Dave Ensor,Ian Stevenson,1997 This book focuses exclusively on Oracle database design It covers the most up to date Oracle issues and technologies including massively parallel processors very large databases data warehouses client server and distributed database The design advice is detailed and thorough The book delves deeply into design issues and gives advice that will have a major impact on your database and system performance

Datapro Reports on UNIX Systems & Software ,1998 *OCP Oracle9i Database: Fundamentals I Exam Guide* Jason Couchman,Sudheer N.

Marisetti,2002-01-14 Prepare to pass the OCP DBA Fundamentals I exam using this Oracle Press study guide You ll get complete coverage of all exam topics followed by practice questions and chapter summaries The CD ROM contains hundreds of practice exam questions in an adaptive format VLDB 2005 ,2005 Oracle8 Data Warehousing Gary Dodge,Tim Gorman,1998-03-30 A hands on guide to designing building and manageing Oracle data warehouses Very Large Data Bases ,2005 **Backup and Restore Practices for Sun Enterprise Servers** Stan Stringfellow,Miroslav Klivansky,Michael Barto,2000 Annotation Plan and implement scalable backup restore architectures that meet IT service level agreements Includes detailed case studies complete methodology and example runbooks New solutions for backing up live dot com databases Backup Restore Practices for Sun Enterprise Servers is a practical guide for IT organizations tasked with implementing or revamping a backup restore architecture to serve today s high volume distributed application environments

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### **Oracle Parallel Processing Introduction**

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