Oracle Business Intelligence: Integrated OLAP
Developing and Using Oracle9i OLAP

Oracle9i Warehouse Builder (9.2) is a tool used to design and deploy business intelligence applications, data warehouses and data marts. The tool enables users to design their own business intelligence application from start to finish. Dimensional design, Extraction, Transformation and Load (ETL) process design, extraction from disparate source systems, extensive metadata reporting and integration with Oracle Discoverer, Oracle Workflow and Oracle Enterprise Manager enable an integrated business intelligence solution with Oracle9i Warehouse Builder at the core.

Oracle9i Warehouse Builder is tightly integrated with the Oracle database, the main supported target system. Designers have a wizard driven process to easily create various relational and dimensional models for their target schema.

This Hands on lab is intended to give new users an overview of Warehouse Builder functionality. Please visit the Warehouse Builder demo station or Oracle’s Technology Network website for additional information and to view a complete list of Warehouse Builder features.

1.1 Login Information
1.2 Overview of Warehouse Builder main console
1.3 Importing source metadata
1.4 Defining a target module
1.5 Dimensional design
1.6 ETL Design: Data Flows (Mappings)
1.7 Deployment Manager
1.8 ETL Design: Process Flow Editor
1.9 External tables
1.10 Data Quality
1.11 Mapping Debugger
Oracle Business Intelligence: Integrated OLAP
Developing and Using Oracle10g OLAP

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Oracle Business Intelligence: Analytics Workspace Primer

Analytic Workspace Manager 10g is a new tool for creating, developing, and managing multidimensional analytic workspaces in an Oracle OLAP data warehouse. With this easy-to-use GUI tool, you will create an analytic workspace with logical dimension and cube objects. Afterwards, you will map these objects with existing star, snowflake, and normalized relational sources and then load the data. In addition, throughout the lesson you will use templates, and make data storage decisions.

Workspace Manager is a feature of the Oracle Database for application developers and DBA’s. It manages current, proposed and historical values for data in the same database. It saves money by reducing the amount of hardware and corresponding software licensing needed to manage this data, as compared to scenarios where data is copied and synchronized across multiple database instances.

It saves time by allowing concurrent access to current, proposed and historical data without the latency associated with making copies of the data. It saves labour by allowing a single point of update and management for this data while freeing the application developer from writing custom code and creating application specific metadata to keep track of multiple data versions.

Potential uses for Workspace Manager include isolating a collection of changes to production data, keeping a history of changes to data and creating multiple data scenarios for “what if” analysis.
Oracle Business Intelligence: Oracle Discoverer End-User Primer

In lesson you will learn how to build Ad-Hoc Reports based on OLAP (On-Line Analytical Processing) data using Oracle Discoverer Plus.

Oracle Discoverer is a powerful Enterprise Ad-Hoc Reporting tool to build and publish high quality, dynamically generated Paper and Web reports. It enables businesses to give immediate access to information to all levels within and outside of the organisation in an unrivalled scalable and secure environment. Oracle Discoverer consists of Oracle Discoverer Plus (a component of the Oracle Developer Suite) and Oracle Discoverer Viewer. (a component of the Oracle Discoverer). Oracle Discoverer uses a declarative, document-centric development model to help Analysts and end-Users rapidly create high-fidelity Web and paper reports against any data source (including Oracle Database, JDBC, XML, text files, and Oracle OLAP).

In this lesson you will use Discoverer Viewer to create and view worksheets in a workbook called Sales & Profits. The lessons will be created from an OLAP multi-dimensional data source.

Topics

- Viewing Sales History Information Using OracleBI Discoverer Viewer
- Analyzing Sales History Information Using OracleBI Discoverer Plus Relational
- Creating Business Intelligence Reports Using OracleBI Discoverer Plus OLAP
- Developing Sales History Business Area by Using OracleBI Discoverer Administrator
- Exploring the New Features of OracleBI Discoverer
- Creating a Business Intelligence Dashboard Using OracleBI Discoverer Portlets
Oracle Business Intelligence: Oracle Analytics
Spreadsheet Add-In Primer

The Oracle BI Spreadsheet Add-In enables end-users to display and navigate Oracle OLAP data from within Excel.

Users can treat Oracle OLAP data as regular Excel data, for example by creating formulas and graphs, thus enabling them to combine the powerful analytic capabilities of Oracle OLAP with standard Excel functionality.

Using a wizard driven interface, users can select data from Oracle OLAP by choosing from a simple list of values, or by creating advanced selections, such as exceptions, top/ bottom, or hierarchy-based. Users can also create Oracle OLAP based calculations.

In this course, you will learn how to use Spreadsheet Add-In to quickly and easily create OLAP focused worksheets directly within Excel and extend the power of worksheets using existing Excel capabilities.

Topics
Connect to an Oracle OLAP Data Source
Create OLAP Queries
Use Excel Features on OLAP Data
Create OLAP Calculations
Add an Excel Conditional Format
Summary
Using OWB9i to Design, Build and Manage OLAP

Oracle9i Warehouse Builder fully supports OLAP integration by providing end-to-end metadata integration with the Oracle9i release 2 database (9.2) OLAP structures.

Using Warehouse Builder you can design, deploy, and load OLAP objects that provide complex analytical power to your data warehouse. Warehouse Builder enables you to perform all the activities required to create an OLAP environment from a relational star schema.

First you can use the Warehouse Builder design environment to create your OLAP metadata. You can define multidimensional objects, such as dimensions and cubes, necessary to create the Analytical Workspace (AW) in your database and enable analytical processing.

Using the Warehouse Builder Transfer Bridge, you can deploy this metadata to your database to create the AW.

This course covers the integration of Warehouse Builder with Oracle9i OLAP server.
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Oracle Business Intelligence: Business Intelligence Beans 10g

This Course is divided into two sections. This first, explains the process of creating business intelligence (OLAP) objects, which can be used in either HTML-client or Java-client applications. The second section explains how to build and deploy BI Beans reports using the application and deployment wizards.
Oracle Business Intelligence: Building Reports based on OLAP data

In lesson you will learn how to build Reports based on OLAP (On-Line Analytical Processing) data using Oracle Reports.

Oracle Reports is a powerful Enterprise Reporting tool to build and publish high quality, dynamically generated Paper and Web reports. It enables businesses to give immediate access to information to all levels within and outside of the organization in an unrivalled scalable and secure environment.

Oracle Reports consists of Oracle Reports Developer (a component of the Oracle Developer Suite) and Oracle Application Server Reports Services (a component of the Oracle Application Server).

Oracle Reports Developer uses a declarative, document-centric development model to help the J2EE developer rapidly create high-fidelity Web and paper reports against any data source (including Oracle Database, JDBC, XML, text files, and Oracle OLAP).

While allowing developers to leverage the latest J2EE technologies such as JSP and XML, OracleAS Reports Services securely publishes these reports in any format (including HTML, XML, PDF, delimited text, Postscript, PCL, and RTF) to any destination (including e-mail, Web browser, Oracle Portal, and file system).
Oracle10g Data Mining Workshop

In today's fast paced business environment, identifying and capitalizing on the right information before a competitor is critical to success. Recognising the next competitive battlefield, discovering ways to expand order sizes, or increasing customer profitability are just a few areas of opportunity that become obvious with the right information.

Most organisations possess a wealth of corporate data, but still cannot identify those key nuggets of information that allow them to achieve a significant competitive advantage. Few organizations ever realize the true potential of their corporate data and this failure allows their competitors to dominate the more lucrative and profitable segments of the market.

In the past, to achieve insight into corporate data, an organisation required a specialized staff of research analysts working in a dedicated environment - not any more. Today, even the smallest organisations can dominate segments of the market with the right information - information that can only be achieved through the data mining process.

The Data Mining Workshop should be considered:

- When an understanding of data mining process, methodology and capabilities are needed
- When organizations are searching for new opportunities to leverage their corporate data to gain a competitive advantage
- When results to complex business problems cannot be met with standard analysis or research methods
- When considering the technical architecture and infrastructure necessary to support enterprise knowledge discovery
- When there is a question of how to perform advanced analytical analysis and knowledge discovery in the shortest time frame

LET WEBLEARNING HELP with the Data Mining Workshop

The Data Mining Workshop educates organisations on how to leverage one of their most valuable assets to provide insight into the operations of their business, the behavioural patterns of their customers and the hidden relationships found deep within corporate data that may have a direct impact to the bottom line. By focusing on the knowledge discovery process, organizations will understand the techniques of collecting and exploring data, the construction of predictive models, and the empirical verification to validate the solution.

The workshop design is based on the following initiatives:

- A discussion session emphasizing the opportunities and value provided by the knowledge discovery process
An understanding of the data mining process, methodology and how it can be used to solve business problems within your industry
An understanding of the architecture, infrastructure and environment necessary to support data mining
Examples highlighting how data mining has provided strategic impact to organisations
A classification of business approaches and proven solutions aligned to your organization's requirements

In a marketplace where speed & industry knowledge is the ultimate competitive advantage, the WebLearning Data Mining Workshop is simply the best investment an organisation can make to help expand revenues and reduce costs.

FEATURES AND BENEFITS

WebLearning offers this workshop to educate your organization about the benefits of the data mining discovery process. These capabilities will benefit your organization by enabling:

• Strategic Business Information -- Enables your organisation to understand how to maximize the return on one of your most valuable assets -- its data
• Architectural Foundation -- Provides the foundation and integrated platform optimized for your knowledge discovery activities
• Reduce Costs -- Identifies business insight and opportunities to expand revenue and reduce costs
• Expertise -- Delivered by highly trained and experienced consultants. WebLearning Consulting has a portfolio of data mining solutions that can be delivered in increments to allow your organisation to achieve the highest value in the shortest possible time frame
Oracle10g Best Practice CD

Oracle10g Database Complete OCP Hands-On Course Workbook. Covers everything you need to become an Oracle Certified Professional - DBA (Database Administrator). Also included are Self-running Flash rich-media demonstrations of how each Task in each Lesson is done.

This is a unique new approach to learning, which combines a hands-on practice workbook with rich media demos to provide a combination of read, practice and watch how it is done.

Audience:
Technical Support Professionals
Database Administrators
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Prerequisites:
Required Prerequisites: Working with iSQL*Plus

Course Objectives:
Manage Content in the Database(Oracle DBA OCP)
Develop a Highly-Available Database Environment
Deploy and Administer Oracle10gAS J2EE, Web Services and Web Cache (Web Administration Master)
Manage the Oracle10g Environment
Build an Information Portal
Build and Deploy Enterprise Portals with Oracle10g Application Server
Developing SQL and PL/SQL with Oracle10g JDeveloper
Modelling, Developing, Discovering, and Accessing Web Services
Build and Manage a Data warehouse
Gain hands-on experience of Building and Designing Oracle Business Intelligence Applications
Manage and Administer Oracle10gAS

Lesson 1- Manage Content in the Database
In this Oracle10g course, you will learn how to manage content in the database utilizing a variety of Oracle tools and technologies. After taking the modules in this course, you should be able to:

Perform SQL queries using Oracle Spatial and Workspace Manager
Perform SQL queries that search product documents
Load an XML Schema and XML documents into the database
Build and deploy an XML Application
Utilize some new PL/SQL capabilities
Build an application that displays and updates multimedia information

Lesson 2 - Extend The Database for Globalization
In this Oracle10g by Example course, you will learn how to facilitate the task of developing, deploying and hosting multiple languages in a single central database. After taking the modules in this course, you should be able to:

Understand the basic concepts of building multilanguage Internet Application
Use the Character Set Scanner in Migrating a Database to support Unicode
Deploy Unicode with SQL NCHAR datatypes
Sort multilingual data
Create your own locale definitions using the Oracle Locale Builder
Use datetime and interval datatypes in a global environment.

Lesson 3 - Integrate your eBusiness
In this Oracle10g course, you will learn how to integrate your data together using messaging and queuing technology. After taking the modules in this course, your should be able to:

Integrate your data using Oracle Streams
Use Advanced Queuing (AQ) on the Internet.

Lesson 4 - Build a Secure Data Centre
In this Oracle10g by Example unit, you will utilize the Oracle10g security capabilities, such as the virtual private database, Oracle Label Security and data encryption. After completing the modules in this course, you should be able to:

Build an Application Context
Build a Security Policy and attach the policy to a user
Assign a user with a label authorization to view confidential information
Encrypt Credit Card information in the database.

Lesson 5 - Manage the Oracle10g Environment
In this Oracle10g course, you will learn how to use Enterprise Manager to administer, manage and tune the database for optimum performance. After completing the modules in this course, you should be able to:

Create and manage administrators
Create events, jobs and reports using the EM Console
Manage the instance, schema, storage and security of the database using the EM Console
Evaluate the performance of a SQL Statement using the Virtual Index Wizard
Evaluate and synchronize changes made to the Development and Production databases using Change Manager
Change Resource Plans during a long-running query using the Enterprise Manager Console
Manage the Oracle10g Real Application Clusters environment using Enterprise Management.
Lesson 6 - Develop a Highly-Available Database Environment
In this Oracle10g course, you will learn how to use some of the Oracle10g capabilities which ensure maximum database availability. After completing the modules in this course, you should be able to:

Enable Archiving.
Use LogMiner to Perform Logical Recovery.
Use Data Guard Manager to Manage a Physical and Logical Standby Database Environment.
Improve Availability through online Operations.
Support Self-Service Error Correction using Oracle Flashback Query.
Perform backups and Recovery of your Database using Oracle10g Recovery Manager.
Use Oracle10g Recovery Manager in Enterprise Manager.

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Oracle Hands-on - Oracle10g Integrated Business Intelligence & Data Warehousing

What you will learn:
Gain hands-on experience using Oracle10g Business Intelligence and Data warehousing with WebLearning BI CD-ROM. This unique self-paced learning experience will provide practical experience and help you sharpen your Oracle skill sets, leading to certification.

This CD leads to Oracle Business Intelligence OCP Certification Exams. Also included are Self-running Flash rich-media demonstrations of how each Task in each Lesson is done.

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Required Prerequisites:

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Modeling, Developing, Discovering, and Accessing Web Services
Build and Manage a Data Warehouse
Gain hands-on experience of Building and Designing Oracle Business Intelligence
Course Topics:

Lesson 1 - Develop and Deploy a Business Intelligence System
This session you will walk through the entire process of creating a business intelligence system for a fictional company. The session will begin with using Oracle10g Warehouse Builder to extract, transport and load data from multiple source systems into a consolidated data mart. Next, Oracle 9iAS Discoverer will be used to perform ad-hoc queries and analysis on the extracted data, and post your findings to Oracle10gAS Portal. More advanced reports will be developed with Oracle10g Reports, and an advanced analytical application will be developed using Oracle10g Business Intelligence Beans. Finally, you will use Oracle 9iAS Clickstream Intelligence to analyze the logs from the company's web site, and Oracle 9iAS Personalization will create recommendations.

Lesson 2 - Consolidated Information For Optimized Analysis
Oracle10g Warehouse Builder (OWB) is a tool for extraction, transformation, and loading (ETL). It is used to consolidate fragmented data culled from custom and legacy data sources and packaged applications, such as Oracle E-Business Suite. The hands-on session is designed to give you highlights of OWB's key functionality.

The powerful graphical user interface, wizard-driven processes, and library of pre-defined transformations provided in OWB lets you design and implement your target database fast and efficiently.

Among the features that will be available for testing are the integration with the Oracle 9i ETL features such as table functions, merge and multi table insert. These will be shown in the ETL framework adding a user interface to these powerful features.

Lesson 3 - Intuitive Ad Hoc Query, Analysis, and Web-Publishing
Oracle10gAS Discoverer is an intuitive ad hoc query, analysis, and web-publishing tool. A key component of Oracle10g Application Server (Oracle10gAS) Business Intelligence, Discoverer empowers business users at all levels of the organization to gain immediate access to information from data marts, data warehouses, and online transaction processing (OLTP) systems.

In this session, participants will learn how to rapidly create, modify, and execute ad hoc queries and reports. Participants will learn how to leverage Oracle10g Analytics, for advanced business reporting, and distribute information on the web via Portals and HTML.

Lesson 4 - Build an Information Portal
Oracle10g Application Server (Oracle10gAS) Business Intelligence includes integrated components for reporting, ad hoc query and analysis, as well as integrated web analytics and business intelligence functions.
In this laboratory, participants will build a new page using Oracle Portal to provide customized Business Intelligence using content provided by Oracle Portal, Oracle Reports, and Oracle Discoverer. Learn how easy it is to centralize information and create and deploy interactive, customized web pages.

While there are no prerequisites for this laboratory, this will supplement the Oracle10gAS Discoverer, Oracle10g Reports Services and Oracle10gAS Portal workshops.

**Lesson 5 - Enterprise Data Publishing with Oracle10g Reports**
A successful Business Intelligence (BI) solution must support a wide range of users and requirements, from enterprise level reporting to ad hoc query and analysis. With Oracle10g Application Server (Oracle10gAS), integrated components smooth the way, enabling developers to move ad hoc queries and analysis to production without losing fidelity.

The provided exercises are split in two tracks, which allow experienced reports users as well as reports beginners to learn what Oracle10g Reports can do for your enterprise data publishing needs.

**Lesson 6 - Exploring BI Application Development**
Oracle10g Business IntelligenceBeans (BI Beans) are a set of standards-based JavaBeans™ that enables developers to build custom business intelligence applications. In this session, users will explore the development of custom business intelligence applications, using Oracle10g JDeveloper and Business Intelligence Beans.

Users will tour an Executive Information System dashboard application that was built using BI Beans and that leverages the analytic power of 9i OLAP. Users will then create this Java application in JDeveloper, without writing a single line of code. Users will see how easy and fast it is to create custom BI applications and will walk away with a better understanding of the capabilities of BI Beans.

**Lesson 7 - Winning on the Web with Oracle10gAS Clickstream Intelligence**
Oracle10g Clickstream Intelligence is a comprehensive Web-based analysis tool for Web site and traffic analysis. This hands-on session introduces you to Clickstream Intelligence, a new component of the Oracle10g Application Server. Clickstream Intelligence is a Web analytics application that provides insight into what is happening on your Web site. This session will take you through all the steps that are necessary to get Clickstream Intelligence up and running. You will begin with a raw Web server log file, and will use the Web-based Runtime Administrator tool to configure your system, e.g. define log file data formats, define data filters, define site-specific assumptions, etc. Thereafter you will use a subset of the more than 150 predefined reports that come with Clickstream Intelligence to inspect the log file data that you loaded. For example, you will examine what content visitors viewed, what they searched for, where they came from (referrers), what browsers they used, and much more.
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Oracle10g™ Certification Boot Camp

Overview
This course is designed to fully certify an individual in Oracle10g™. Students will learn about the new features in PL/SQL, the Oracle® features that support SQL99, and all features of the Oracle10g™ database. The students will be provided with course materials, sample tests, and be able to take all tests associated with Oracle10g™ certification. The tests include:

- 1Z0-007 -- Oracle10g™ PL/SQL
- 1Z0-031 -- Oracle10g™ Fundamentals I
- 1Z0-032 -- Oracle10g™ Fundamentals II
- 1Z0-033 -- Oracle10g™ Tuning

Course Outline

I: Oracle10g™ PL/SQL (1Z0-007)
- Writing basic SQL SELECT statements
- Restricting and sorting data
- Displaying data from multiple tables
- Outer Joins
- Single Row Functions
- Aggregating data using group functions
- Producing readable output with iSQL*Plus
- Subqueries
- Creating and managing tables
- Altering Table
- Creating Database Objects
- Manipulating Data
- Creating Views
- Controlling user access

II: Oracle10g™ Database Fundamentals I (1Z0-031)
- Basics of the Oracle® Database Architecture
- Oracle® Server Architecture
- Shared Memory Areas
- Universal Installer
- Managing an Oracle® Instance
- Oracle® Managed Files
- Server Side Parameter File
- Oracle® Data Dictionary
- Control Files
- Redo Log Files
- Managing the Physical Database Structure
- Managing Tablespaces and Datafiles
- Temporary Segments
- Storage Structures and Undo Data
- Block Utilization
• Undo Space Management
• Managing Database Objects
• Indexes
• Integrity Constraints
• Managing Database Users
• System Privileges
• Object Privileges
• Roles
• National Language Support

III: Oracle10g™ Database Fundamentals II (1Z0-032)
• Networking Features
• Simple Network
• Network Configurations
• Server Side Configuration
• Client Side Configuration
• Oracle® Net
• Oracle® Names
• Oracle® Net Features
• Listener Configuration
• External Names
• Connection Manager
• Shared Server
• Network Security
• Trouble Shooting the Network.
• Backup and Recovery Features
• Types of Failures
• Instance and Media Failures
• Database Files
• Redo Log Files
• Archivelog Mode
• Recovery Methods
• Hot Backups
• Cold Backups
• Incomplete Recovery
• Complete Recovery
• Oracle® Data Guard
• RMAN Features
• Recovery Catalog
• Logical Backups
• SQL*LOADER
• Flashback Query
• LogMiner Enhancements
• Skipping Redo Log Corruption
• Fast Start Time Recovery
• Block Media Recovery
IV: Oracle10g™ Database Tuning: (1Z0-033)

- Tuning Methodology
- Tuning Tools
- Cached Executable Plans
- Dynamic Performance Views.
- Statspack
- Analyze Command
- Optimizer Improvements
- SGA Structures
- Sort Operations
- I/O Structures
- Common SQL Parser
- Undo Segments
- Latch Contention
- Application Tuning
- SQL Statement Tuning
- Oracle® Blocks
- Resource Manager
- Bitmap Join Indexes
- Index Skip Scanning
- Cache Fusion Architecture
- HA Features
Oracle9i™ Certification Boot Camp

Overview
This course is designed to fully certify an individual in Oracle9i™. Students will learn about the new features in PL/SQL, the Oracle® features that support SQL99, and all features of the Oracle9i™ database. The students will be provided with course materials, sample tests, and be able to take all tests associated with Oracle9i™ certification. The tests include:

- 1Z0-007 -- Oracle9i™ PL/SQL
- 1Z0-031 -- Oracle9i™ Fundamentals I
- 1Z0-032 -- Oracle9i™ Fundamentals II
- 1Z0-033 -- Oracle9i™ Tuning

Course Outline

I: Oracle9i™ PL/SQL (1Z0-007)
- Writing basic SQL SELECT statements
- Restricting and sorting data
- Displaying data from multiple tables
- Outer Joins
- Single Row Functions
- Aggregating data using group functions
- Producing readable output with iSQL*Plus
- Subqueries
- Creating and managing tables
- Altering Table
- Creating Database Objects
- Manipulating Data
- Creating Views
- Controlling user access

II: Oracle9i™ Database Fundamentals I (1Z0-031)
- Basics of the Oracle® Database Architecture
- Oracle® Server Architecture
- Shared Memory Areas
- Universal Installer
- Managing an Oracle® Instance
- Oracle® Managed Files
- Server Side Parameter File
- Oracle® Data Dictionary
- Control Files
- Redo Log Files
- Managing the Physical Database Structure
- Managing Tablespaces and Datafiles
- Temporary Segments
- Storage Structures and Undo Data
• Block Utilization
• Undo Space Management
• Managing Database Objects
• Indexes
• Integrity Constraints
• Managing Database Users
• System Privileges
• Object Privileges
• Roles
• National Language Support

III: Oracle9i™ Database Fundamentals II (1Z0-032)
• Networking Features
• Simple Network
• Network Configurations
• Server Side Configuration
• Client Side Configuration
• Oracle® Net
• Oracle® Names
• Oracle® Net Features
• Listener Configuration
• External Names
• Connection Manager
• Shared Server
• Network Security
• Trouble Shooting the Network.
• Backup and Recovery Features
• Types of Failures
• Instance and Media Failures
• Database Files
• Redo Log Files
• Archivelog Mode
• Recovery Methods
• Hot Backups
• Cold Backups
• Incomplete Recovery
• Complete Recovery
• Oracle® Data Guard
• RMAN Features
• Recovery Catalog
• Logical Backups
• SQL*LOADER
• Flashback Query
• LogMiner Enhancements
• Skipping Redo Log Corruption
• Fast Start Time Recovery
• Block Media Recovery
IV: Oracle™ Database Tuning: (1Z0-033)

- Tuning Methodology
- Tuning Tools
- Cached Executable Plans
- Dynamic Performance Views.
- Statspack
- Analyze Command
- Optimizer Improvements
- SGA Structures
- Sort Operations
- I/O Structures
- Common SQL Parser
- Undo Segments
- Latch Contention
- Application Tuning
- SQL Statement Tuning
- Oracle® Blocks
- Resource Manager
- Bitmap Join Indexes
- Index Skip Scanning
- Cache Fusion Architecture
- HA Features