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Syllabus

INTRODUCTION TO ORACLE 9i SQL

- 1. Writing Basic SQL SELECT Statements
- 2. Restricting and Sorting Data
- 3. Single-Row Functions
- 4. Displaying data from multiple tables
- 5. Aggregating Data Using Group Functions
- 6. Subqueries
- 7. Producing Readable Output with iSQL*Plus
- 8. Manipulating Data(DML)
- 9. Creating and Managing tables(DDL)
- 10. Constraints
- 11. Views
- 12. Sequence, synonyms, indexes
- 13. Controlling User Access(DCL)
- 14. Set operators
- 15. Oracle9i Datetime Functions
- 16. Advanced grouping
- 17. Advanced Subqueries
- 18. Hierarchical Retrieval
- 19. Oracle9i Extensions to DML and DDL Statements

ORACLE 10g RELEASE 2(10.2.0.1.0) DATABASE ADMINISTRATION

Administration I: (120-042)

1 Oracle Database 10g Components and Architecture

- 1.1 The oracle product family
- 1.2 relational database concepts
- 1.3 The oracle architecture
- 1.4 Installing oracle 10g

2 Creating and Controlling a Database

- 2.1 The oracle enterprise manager frame work
- 2.2 using database configuration assistant(dbca)
- 2.3 managing parameter initialization file
- 2.4 starting up and shutting down an oracle database

3 Database Storage and Schema Objects

- 3.1 Identifying segments, extents, and data blocks
- 3.2 managing tablespaces
- 3.3 managing datafiles
- 3.4 working with schema objects

4 Oracle Net Services

- 4.1 Network design consideration
- 4.2 Network configuration
- 4.3 An overview of oracle net features
- 4.4 Configuring oracle net on the server
- 4.5 Configuring oracle net on client

5 Oracle Shared Server

- 5.1 An overview of oracle shared server
- 5.2 Oracle shared server infrastructure
- 5.3 Configuring oracle shared server
- 5.4 Managing shared server
- 5.5 Tuning the shared server option

6 User Administration and Security

- 6.1 Creating and managing user accounts, profiles
- 6.2 Granting and revoking privileges
- 6.3 Authenticating users
- 6.4 Controlling resource usage by user
- 6.5 Applying principles of least privilege
- 6.6 Implementing standard password security features
- 6.7 Auditing database activity

7 Managing Data With SQL, PL/SQL, and Utilities

- 7.1 Manipulating data through SQL
- 7.2 Identifying PL/SQL objects
- 7.3 Indexes, views, sequence, synonyms
- 7.4 Creating directory Objects
- 7.5 Creating temporary tables

8 Exporting and importing

- 8.1 Using data pump to export, import data
- 8.2 table level, schema level, tablespace level exporting, importing
- 8.3 Migrating objects from one schema to another
- 8.4 Migrating contents of one tablespace to another
- 8.5 Loading data with SQL*Loader

9 Managing Consistency and Concurrency

- 9.1 Understanding Undo segment
- 9.2 Using undo data
- 9.3 Monitoring, configuring, administering Undo

9.4 Monitoring locking and resolving lock conflicts

10 Proactive Database Maintenance and Performance Monitoring

- 10.1 Automatic workload repasitory(AWR)
- 10.2 Automatic database diagnostic monitor(ADDM)
- 10.3 ADDM Advisor
- 10.4 ADDM alerts
- 10.5 Performance monitoring

11 Implementing Database Backups

- 11.1 Understanding and configuring recovery components
- 11.2 performing backups
- 11.3 User managed backup, server managed backup (RMAN)
- 11.4 Backing up control files
- 11.5 Managing backups

12 Implementing Database Recovery

- 12.1 understanding database failure types
- 12.2 Keeping an instance from failing
- 12.3 Recovering from Instance failure
- 12.4 Tuning instance recovery
- 12.5 Recovering from user errors
- 12.6 Recovering from loss of control files
- 12.7 Recovering from loss of redo log files
- 12.8 Recovering from loss of a system critical datafiles
- 12.9 Recovering from loss of a non-system-critical datafile

13 Understanding the Flashback Database

- 13.1 An Overview of Flashback Technologies
- 13.2 An Overview of the Flashback Database
- 13.3 Managing the Flash Recovery Area with Recovery Manager
- 13.4 Configuring the Flash Recovery Area
- 13.5 Backing Up the Flash Recovery Area
- 13.6 Configuring the Flashback Database

- 13.7 Using the Flashback Database with RMAN
- 13.8 Using the Flashback Database with Enterprise Manager

Administration II:(1z0-043)

1 Configuring Recovery Manager

- 1.1 Exploring the features and components of RMAN
- 1.2 RMAN usage consideration
- 1.3 RMAN repository and control files
- 1.4 Starting and connecting to RMAN
- 1.5 Describing Channel allocation
- 1.6 Configuring RMAN settings with EM
- 1.7 Describing retension policies
- 1.8 Configuring the Control File Autobackup

2 Using Recovery Manager

- 2.1 RMAN Commands 38
- 2.2 Backup Sets and Image Copies
- 2.3 Enabling and Disabling Block Change Tracking
- 2.4 Managing Backups with Enterprise Manager
- 2.5 Monitoring RMAN Backups

3 Recovering From Non-Critical Losses

- 3.1 An Overview of Non-Critical Files
- 3.2 Creating a New Temporary Tablespace
- 3.3 Re-creating Redo Log Files
- 3.4 Recovering an Index Tablespace
- 3.5 Re-creating the Password File

4 Database Recovery

- 4.1 Understanding the Restore and Recovery Process
- 4.2 Server-Managed Recovery
- 4.3 User-Managed Recovery

- 4.4 Recovering Control Files
- 4.5 Performing an Incomplete Recovery
- 4.6 Database Recovery Using Enterprise Manager
- 4.7 Performing a Recovery after a RESETLOGS Operation

5 Recovering from User Errors

- 5.1 An Overview of Flashback Technologies
- 5.2 Using Flashback Drop
- 5.3 Using EM to Perform Flashback Dropped Tables
- 5.4 Using Flashback Versions Query
- 5.5 Using Flashback Transaction Query
- 5.6 Using Flashback Table

6 Handling Block Corruption

- 6.1 An Overview of Block Corruption
- 6.2 Block Corruption Symptoms
- 6.3 Using Various Methods to Detect and Resolve Corruption
- 6.4 Block Media Recovery

7 Understanding Automatic Database Management

- 7.1 Using the Automatic Workload Repository (AWR)
- 7.2 AWR Statistics Collection Facility
- 7.3 AWR snapshot
- 7.4 Managing Server-Generated Alerts
- 7.5 Using Automatic Routine Administration Tasks
- 7.6 Understanding the Advisory Framework

8 Understanding Automatic Storage Management

- 8.1 Introducing the ASM Architecture
- 8.2 Understanding an ASM Instance
- 8.3 Defining ASM Initialization Parameters
- 8.4 Categorizing ASM Dynamic Performance Views
- 8.5 Understanding ASM File Types and Templates
- 8.6 Administering ASM Disk Groups

8.7 Using RMAN to Perform Database Migration to ASM

9 Understanding Globalization Support

- 9.1 An Overview of Globalization Support
- 9.2 Using NLS Parameters
- 9.3 Using DatetimeDatatypes
- 9.4 Using Linguistic Sorts and Searches

10 Managing Resources

- 10.1 An Overview of the Database Resource Manager
- 10.2 Working with the Pending Area
- 10.3 Resource Consumer Groups
- 10.4 Resource Plans
- 10.5 Resource Plan Directives
- 10.6 Putting the Pieces Together

11 Using the Scheduler to Automate Tasks

- 11.1 Scheduler Overview
- 11.2 Scheduler Architecture
- 11.3 Common Administration Tools
- 11.4 Using Scheduler Jobs
- 11.5 Using Job Classes
- 11.6 Using Scheduler Programs
- 11.7 Using Schedules
- 11.8 Using Scheduler Windows
- 11.9 Using Scheduler Views

12 Monitoring and Managing Storage

- 12.1 Monitoring Tablespace Storage
- 12.2 Using Segment Management Tools
- 12.3 Understanding Special Table Types
- 12.4 Using Miscellaneous Space Management Tools

12.5 Leveraging Resumable Space Allocation

13 Securing the Oracle Listener, Diagnostic Sources and Memory

- 13.1 Securing the Oracle Listener
- 13.2 An Overview of the TNS Listener
- 13.3 Diagnostic Sources
- 13.4 Automatic Memory Management