

Oracle Database 11g: Administration Workshop-II

Duration: 40 hrs

Audience:

- Database Administrators
- Sales Consultants
- Support Engineer
- Project Manager
- Database Designers
- Technical Consultant

Required Prerequisites:

- Oracle Database 11g: Administration Workshop I

Suggested Prerequisites:

- Oracle Database 11g: SQL Fundamentals I
- Oracle Database 11g: SQL and PL/SQL Fundamentals

Course Objectives:

- Use RMAN to create and manage backup sets and image copies
- Recover the database to a previous point in time
- Use Oracle's Flashback technology to recover your database
- Detect block corruptions and take appropriate measures to correct them
- Use the various Database advisors and views to monitor and improve database performance
- Control database resource usage with the Resource Manager
- Simplify management tasks by using the Scheduler
- Improve the security of the listener
- Review database log files for diagnostic purposes
- Customize language-dependent behavior for the database and individual sessions

TOPIC NAME	TOPIC NAME
1. Using Globalization Support	10. Dealing with Database Corruption
➤ Datetimes with Timezones	➤ What is block corruption?
➤ Specifying Language-Dependent Behavior	➤ Interpreting DBVERIFY
➤ Locale Variants	➤ The ANALYZE command
➤ Linguistic Sorting	➤ How to Handle Corruptions
➤ Case and Accent Insensitive Sorts	➤ The DBMS_REPAIR Package
➤ Linguistic Comparisons	➤ Block Media Recovery (BMR)
➤ Obtaining Information about the Current NLS Configuration	➤ Detecting Database Corruptions Using DBVERIFY
	➤ Using RMAN to Repair Corrupt Blocks
2. Securing the Oracle Listener	11. Automatic Database Management
➤ Listener Password Authentication	➤ Automatic Optimizer Statistics Collection
➤ Controlling Database Access	➤ Workload Repository
➤ Securing the EXTPROC Service Entry	➤ Database Control and Advisors
	➤ Using the SQL Tuning Advisor
3. Configuring Recovery Manager	➤ Using the SQL Access Advisor
➤ Using a Flash Recovery Area with RMAN	➤ Automatic Undo Retention Tuning
➤ Setting Parameters for RMAN	
➤ Starting RMAN	12. Monitoring and Managing Storage
➤ Configuring Persistent Settings for RMAN	➤ Redo Logfile Size Advisor
➤ Control File Autobackups	➤ Resumable Statements
➤ Retention Policies	➤ Tablespace Space Usage Monitoring
	➤ Accessing the Segment Advisor
4. Using Recovery Manager	➤ Shrinking Segments Using SQL
➤ Issuing Recovery Manager Commands	➤ Segment Resource Estimation
➤ Parallelization of Backup Sets	

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TOPIC NAME	TOPIC NAME
➤ Compressed Backups	➤ Monitoring Index Space
➤ Copying the Whole Database	➤ Identifying Unused Indexes
➤ Making Incremental Backups	
➤ Block Change Tracking	13. Automatic Storage Management
➤ Incrementally Updating Backups	➤ ASM Concepts
➤ Monitoring RMAN Backups	➤ ASM General Architecture
5. Diagnostic Sources	➤ Creating an ASM instance
➤ The Alert Log	➤ Creating tablespaces that use ASM storage
➤ Viewing Alerts with EM	➤ Viewing ASM information
➤ Alerts Notification	➤ Migrating a tablespace to use ASM storage
➤ Editing Thresholds	
➤ Trace Files	14. Monitoring and Managing Memory
	➤ Oracle Memory Structures
6. Recovering from non-critical losses	➤ Automatic PGA Memory Management
➤ Creating New Temporary Tablespace	➤ Using the Memory Advisor
	➤ Using Automatic Shared Memory Management to avoid long running query issues
➤ Recreating Redo Log Files	
➤ Recovering an Index Tablespace	15. Managing Resources
➤ Read-Only Tablespace Recovery	➤ Creating a New Resource Plan
➤ Loss of Password Authentication File	➤ Creating Resource Consumer Groups
	➤ Assigning Users to Resource Consumer Groups
7. Database Recovery	➤ Adaptive Consumer Group Mapping
➤ Recovery Steps	➤ Using Sub-Plans to limit CPU Utilization
➤ User-Managed Recovery Procedures: RECOVER Command	➤ Administering the Resource Manager
➤ Types of incomplete recovery	
➤ Incomplete Recovery Best Practices	➤ Resource Plan Directives
➤ Recovery Using EM	
➤ Simple Recovery Through RESETLOGS	16. Automating Tasks with the Scheduler
➤ Point-in-time recovery using RMAN	➤ Creating a Scheduler Job
	➤ Using Scheduler Programs
8. Flashback database	➤ Creating and Using Schedules
➤ When to Use Flashback Technology	➤ Creating a Job Class
➤ Configuring Flashback Database	➤ Prioritizing Jobs within a Window
➤ Monitoring Flashback Database	➤ Viewing Job Execution Details
	➤ Creating a job that runs a program outside of the database
➤ Best Practices for the Database and Flash Recovery Area	
➤ Flash Recovery Area Space Usage	
➤ Flashback Database Examples	
9. Recovering from User Errors	
➤ Recycle Bin	
➤ Flashback Dropped Tables Using EM	
➤ Querying Dropped Tables	
➤ Flashback Versions Query	
➤ Flashback Transaction Query	
➤ Using Flashback Versions Query and Flashback Transaction Query	
➤ Flashback Table	
➤ Using EM To Flashback Tables	