

Oracle Database 11g: Administration - Part 2

Description: The overall objective of this course is to bring database administrators beyond a basic understanding of their environment and to focus attention on more advanced skills needed to effectively configure, administer, monitor and tune the database within a large-scale enterprise.

Days: 5

Prerequisites: Many students taking this course have familiarity with system administration and administration of other non-Oracle databases, and this is helpful though not mandatory. Specific course prerequisites for this course are these courses:

- ORACLE DATABASE 11g: SQL FUNDAMENTALS – COMPLETE LIBRARY
- ORACLE DATABASE 11g: PL/SQL FUNDAMENTALS – COMPLETE LIBRARY
- ORACLE DATABASE 11g: ADMINISTRATION I

Audience: The primary target audience for this course is Oracle database administrators. Oracle web server and application server administrators, as well as others who must manage an embedded repository database using Oracle database technology will also find this information useful. This course is also recommended for technical consultants, support engineers, project managers and other technical management and support personnel.

MANAGING MEMORY

- ABOUT MANUAL MEMORY MANAGEMENT
- AUTOMATIC MEMORY MANAGEMENT
- MEMORY_TARGET
- MEMORY_MAX_TARGET
- SGA_TARGET
- SGA_MAX_SIZE

- WORKAREA_SIZE_POLICY & PGA_AGGREGATE_TARGET
- USING EM & THE MEMORY ADVISORS
- MONITOR IN MEMORY ACCESS MODE

MANAGING STORAGE & THE SEGMENT ADVISOR

- MONITOR TABLESPACES
- ABOUT RESUMABLE SPACE ALLOCATION
- TABLE STORAGE MANAGEMENT
- PCTFREE Illustrated
- USE THE SEGMENT ADVISOR
- Using The SHRINK SPACE Option
- CASCADE To Dependent Objects
- Optionally Call DELETE_TASK()
- MANAGING RESOURCES
- DATABASE RESOURCE MANAGER ARCHITECTURE
- CONSUMER GROUPS
- RESOURCE PLANS
- AUTOMATIC & ADAPTIVE CONSUMER GROUP MAPPING
- ACTIVATING PLANS
- MONITORING RESOURCE ALLOCATION
- EXPLICIT CONSUMER GROUP SWITCHING

AUTOMATING TASKS WITH THE SCHEDULER (BASIC)

- SCHEDULER ARCHITECTURE
- RAC Environment
- MANAGE PROGRAMS
- MANAGE SCHEDULES
- MANAGE JOBS

AUTOMATING TASKS WITH THE SCHEDULER (ADVANCED)

- MANAGE JOB CLASSES

- MANAGE WINDOWS & WINDOW GROUPS
- MANAGE CHAINS
- ABOUT EVENTS & THE SCHEDULER
- GLOBALIZATION
- GLOBALIZATION SETTINGS
- NLS_LANG
- NLS_LANGUAGE & NLS_TERRITORY
- DATE & TIME LOCALIZATION
- LINGUISTIC INDEXES
- ABOUT LOCALE BUILDER

DIAGNOSING DATABASE PROBLEMS

- ABOUT THE FAULT DIAGNOSABILITY INFRASTRUCTURE
- ADR Highlights From EM
- USING THE ALERT LOG
- ABOUT THE TRACE FILES
- DATABASE INSTANCE HEALTH SNAPSHOT
- USING THE SUPPORT WORKBENCH
- ENABLE ORACLE CONFIGURATION MANAGER

AUTOMATIC STORAGE MANAGEMENT

- ASM & THE BROADER DATABASE ARCHITECTURE
- CREATING THE ASM INSTANCE
- ADMINISTERING THE ASM INSTANCE
- SYSASM Super Administrator
- ASM Storage Parameters
- Using DBCA
- Using ASMCMD
- CONFIGURING DATABASES FOR ASM STORAGE
- DBCA

- DBUA
- ASM Migration Using EM
- RECOVERY CONCEPTS
- ABOUT THE BACKUP & RECOVERY STRUCTURES
- MANAGING REDO DATA
- Is LOG_BUFFER Large Enough?
- What V\$LOG Reveals
- What V\$LOG_HISTORY Reveals
- What V\$LOGFILE Reveals
- What V\$ARCHIVED_LOG Reveals
- MANAGING ARCHIVED REDO DATA
- ARCHIVELOG Status
- CREATING A FOUNDATION FOR SOUND RECOVERY

ORACLE FLASHBACK TECHNOLOGY

- ABOUT FLASHBACK TECHNOLOGY
- FLASHBACK QUERY
- SELECT...AS OF TIMESTAMP
- SELECT...AS OF SCN
- Using DBMS_FLASHBACK()
- CONFIGURING UNDO MANAGEMENT FOR FLASHBACK
- UNDO_RETENTION
- FLASHBACK TABLE
- FLASHBACK DROP
- FLASHBACK VERSIONS QUERY
- FLASHBACK TRANSACTION QUERY
- FLASHBACK TRANSACTION BACKOUT

FLASHBACK DATABASE

- ABOUT FLASHBACK DATABASE

- CONFIGURING THE FLASH RECOVERY AREA
- More About DB_RECOVERY_FILE_DEST
- PERFORMING DATABASE FLASHBACK
- MONITORING FLASHBACK PERFORMANCE
- FLASHBACK DATABASE CONSIDERATIONS
- CONFIGURE FLASHBACK DATA ARCHIVE

INSTANCE RECOVERY

- ABOUT INSTANCE RECOVERY
- SMON Process & Instance Recovery
- PMON Process & Process Recovery
- INSTANCE RECOVERY PARALLELISM
- Changing RECOVERY_PARALLELISM
- MTTR ADVISOR & TUNING CHECKPOINTS
- LOG_CHECKPOINTS_TO_ALERT
- REDO LOGFILE SIZE ADVISOR
- FAST-START ON-DEMAND PARALLELISM

CONFIGURING RMAN

- RMAN ARCHITECTURE
- RMAN Sample Backup Session
- LAUNCH & USE RMAN
- CONFIGURE RMAN SETTINGS
- ALLOCATE RMAN CHANNELS

BACKUP WITH RMAN

- ABOUT BACKUP FILE TYPES
- PERFORMING FULL BACKUPS
- PERFORMING INCREMENTAL BACKUPS
- ESTABLISHING A BACKUP RETENTION POLICY
- GENERATE REPORTS

- REPORT UNRECOVERABLE
- REPORT NEED BACKUP
- LIST INCARNATION
- VALIDATE BACKUP DATA INTEGRITY

RMAN MANAGEMENT WITH EM

- MONITORING THE FLASH RECOVERY AREA
- THE EM INTERFACE TO RMAN
- SCHEDULING RMAN BACKUPS
- USING THE ORACLE-SUGGESTED BACKUP STRATEGY
- MANAGE CURRENT BACKUPS
- BACKUP REPORTS
- MANAGE RESTORE POINTS

USER-MANAGED RECOVERY OPERATIONS

- RECOVERY CONCEPTS
- RECOVER TEMPORARY TABLESPACES
- RECOVER READ-ONLY TABLESPACES
- RECOVER INDEX TABLESPACES
- RECOVER REDO LOG GROUP MEMBER
- RECREATE THE PASSWORD FILE

RECOVERY WITH RMAN

- COMPLETE MEDIA RECOVERY
- INCOMPLETE MEDIA RECOVERY
- TSPITR
- DBPITR
- RECOVERY USING EM

Upcoming Classes

Sorry, there are no upcoming classes. Feel free to contact us if you're interested in us putting a class together.