

## ORACLE8i BACKUP and RECOVERY

Duration: 3 days

### Develop the advanced skills of backup and recovery to effectively administer an Oracle Server Database

#### Course Description:

This course provides students with the knowledge and hands-on experience to plan and execute Oracle database backup and recovery.

#### Participants will learn...

- DBMS Backup and Restore
- ARCHIVELOG
- Export and Import
- Recovery Manager

#### Who Needs to Attend:

Application Developers and Designers, Managers, Database Administrators, Systems Administrators, Network Managers and Technical Support Personnel

#### Prerequisites:

Oracle Foundation Classes, Oracle DBA I or equivalent experience

#### Course Content:

##### INTRODUCTION TO BACKUP and RECOVERY

- Duties of the DBA
- Developing a Backup Strategy
- The Backup Plan

##### PHYSICAL NOARCHIVELOG BACKUPS

- Oracle Database Backups
- Writing to the Database
- LGWR Write Process
- Automatic Recovery Architecture
- Noarchivelog Mode
- Archivelog Mode
- Physical Backups

##### PHYSICAL ARCHIVELOG BACKUPS

- Configuration of the Database for Archiving
- Setting the Archivelog Mode
- Cold Backups in Archivelog Mode
- Hot Backups in Archivelog Mode

##### COMPLETE RECOVERY

- Types of Failure
- Recovery Structures and Processes
- Recovery When in Noarchivelog Mode
- Recovery When in Archivelog Mode
- Case Studies in Complete Recovery

##### INCOMPLETE RECOVERY

- What is Incomplete Recovery?
- Reasons for Incomplete Recovery
- Types of Incomplete Recovery
- The RECOVER Command for Incomplete Recovery
- Case Studies in Incomplete Recovery
- Risk and problems with incomplete recovery
- Incomplete recovery
- Incomplete Tablespace
- Incomplete Datafile

##### TSPITR AND STANDBY DATABASES

- What is Tablespace Point in Time Recovery (TSPITR)?
- TSPITR Using a Clone Database
- TSPITR Using Transportable Tablespaces
- Standby Database
- High Availability Options
- Standby Database Configuration Options
- Creating a Standby Database

##### EXPORT & IMPORT

- Logical Backups Using Export and Import
- Exporting Data
- Direct Path Exports
- Importing Data
- Other Uses of Export/Import

##### ORACLE UTILITIES AND PACKAGES

- Methods for Detecting Block Corruption
- DBVerify
- DB\_BLOCK\_CHECKING
- DB\_BLOCK\_CHECKSUM
- DBMS\_REPAIR Packages
- LogMiner Utility

##### RECOVERY MANAGER OVERVIEW

- What is Recovery Manager?
- RMAN Tools and Features
- Recovery Catalog
- Backup, Restore and Recover Package
- RMAN Maintenance Commands
- Supported Backup Types

##### BACKUP USING RMAN

- Recovery Catalog Commands
- Steps to set up a Recovery Database
- Reports and the Recovery Catalog
- Lists and the Recovery Catalog
- Backups Using RMAN

##### RECOVERY USING RMAN

- Restore Operations Using RMAN
- Recovery Using RMAN
- Types of Recovery
- Performing a Recovery

##### BACKUP AND RECOVERY WORKSHOP

#### Course Labs:

1. NOARCHIVELOG Physical Backups
2. ARCHIVELOG Physical Backups
3. ARCHIVELOG Complete Recovery
4. ARCHIVELOG Incomplete Recovery
5. Incomplete recovery
6. Logical Backup and Recovery
7. Oracle Utilities
8. Backup Using RMAN
9. Recovery Using RMAN
10. Backup and Recovery Workshop