



## **Oracle Database 11g: New Features for Oracle 9i DBAs**

Код курса: 11g9iNFA

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<b>Длительность</b>	40 ак. часов
<b>Формат</b>	Очно; Дистанционно
<b>Разработчик курса</b>	Oracle
<b>Тип</b>	Учебный курс
<b>Способ обучения</b>	Под руководством тренера

### О курсе

This course introduces students to the new features of Oracle Database 10g and Oracle Database 11g.

### Подробная информация

#### Профиль аудитории:

- Data Warehouse Administrator
- Database Administrators
- Support Engineer
- Technical Administrator

#### Предварительные требования:

- Oracle9i Database: New Features for Administrators

#### По окончании курса слушатели смогут:

- Upgrade to Oracle Database 11g
- Perform typical DBA tasks tailored to an 11g database

### Программа курса

#### Module 1. Planning Your Upgrade to Oracle Database 11g

- Steps to Upgrade to Oracle Database 11g
- Choosing an Upgrade Method
- Performing Character Conversion

#### Module 2. Upgrading the Oracle Database 11g

- Installing Oracle Database 11g Software
- Applying Oracle Software Patches

- Creating a Database

### Module 3. Real Application Testing

- Why Use Database Replay?
- Pre-Change Production System
- Capture / Replay Considerations
- Performing Workload Capture
- Performing Workload Replay
- Using SQL Performance Analyzer
- Using Database Replay to test system changes
- Using SQL Performance Replay to test SQL changes

### Module 4. Upgrading Your Database Using other Methods

- Using DBUA to Upgrade the Database
- Oracle Database 11g: Upgrade Enhancements
- Backing Up the Database Before Upgrade
- Using the Preupgrade Information Tool
- Using New Postupgrade Status Utility

### Module 5. Performing Post-Upgrade Steps

- Upgrading Server Manager scripts
- Performing Additional Upgrade Tasks
- Using New Features in Your Upgraded Database
- Executing the Postupgrade Script
- Upgrading the National Character Set toAL16UTF16
- Checking for Unusable Function-based Indexes
- Upgrading the Recovery Catalog

### Module 6. Using EM: Database Control and Grid Control

- Administering the Database Using Enterprise Manager: Overview
- Using Database Control
- Granting Database Control Administrative Privileges
- Using Grid Control to Manage Your Environment
- Setting Preferred Credentials

### Module 7. Proactively Maintaining the Database

- Oracle Database 11g: Self-Managing Database
- Automatic Workload Repository
- Job Scheduler Concepts
- Server-Generated Alerts
- Advisor Framework
- Automatic Database Diagnostic Monitor
- Configuring Alerts

### Module 8. Managing System Resources

- Database Resource Manager: Concepts (auto enabled)
- Using New Features of Database Resource Manager
- Exploring Allocation methods
- Maximum Estimated Execution Time
- Automatic Consumer Group Switching
- Using Resource Manager Statistics

#### Module 9. Automating Tasks with the Scheduler

- Scheduler Concepts
- Using Scheduler Programs
- Windows and Resources
- Administering the Scheduler

#### Module 10. Managing Memory Structures

- Enabling Automatic Memory Management
- Modifying Parameters for Automatically Managed Components
- Modifying Parameters for Manually Sized Components
- Monitoring Automatic Memory Management

#### Module 11. Managing Database Storage Structures

- Using the SYSAUX Tablespace
- Specifying a Default User Tablespace
- Using Oracle Managed Files (OMF)
- Creating Bigfile Tablespaces
- Using Nonstandard Block Sizes
- Proactively Monitoring Tablespaces
- Using the Redo Logfile Sizing Advisor

#### Module 12. Implementing Automatic Storage Management (ASM)

- ASM: Key Features and Benefits
- ASM: General Architecture
- Accessing an ASM Instance
- ASM Administration
- Database Instance Parameter Changes
- Migrating Your Database to ASM

#### Module 13. Managing Database Space

- Understanding Automatic Undo Management
- Specifying the Undo Management Mode
- Setting the Undo Management Initialization Parameters
- Using the Undo Advisor

#### Module 14. Administering Users and Database Security

- Unlocking Default User Accounts

- Specifying a Common Password for System
- Securing access by user
- Using Fine-Grained Auditing
- Auditing the SYS User
- Understanding Changes to the Audit Trail

#### Module 15. Managing Schema Objects

- Using Automatic Segment-space Management
- Estimating Table and Index Size Before Creation
- Granting Object Privileges on Behalf of the Object Owner
- Performing Online Redefinition of Tables
- Enabling Data Segment Compression
- Automatically Collecting Statistics
- Using the Segment Advisor

#### Module 16. Accessing and Loading Data

- Using Data Pump to Import and Export Data
- Managing External Tables
- Cross-Platform Transportable Tablespaces

#### Module 17. Performing Backup and Recovery Operations

- Using RMAN to Back up the SPFILE
- Creating Change-aware Incremental Backups
- Encrypting backups
- Using backup compression
- Using RMAN to Perform Recovery: Automatic File Creation During Recovery
- Performing Trial Recovery
- Enabling and Performing Flashback Database

#### Module 18. Recovering From User Errors

- Using Flashback Query
- Auditing and Recovering Transactions Using the Flashback Transaction Query Feature
- Retrieving Row History Information Using the Flashback Version Query Feature
- Recovering Table Data Using the Flashback Table Feature
- Recovering Dropped Tables using Flashback Drop Feature
- Flashing back a transaction
- Using LogMiner Enhancements

#### Module 19. Managing Performance

- Using the SQL Tuning Advisor
- Using the SQL Access Advisor
- Using the trcsess Utility to Consolidate Output from Trace Files
- Using DBMS\_MONITOR

#### Module 20. Diagnosability Enhancements

- Oracle Database 11g Fault Management
- Ease Diagnosis: Automatic Diagnostic Workflow
- Automatic Diagnostic Repository
- Incident Packaging Configuration
- Running Health Checks
- Using the SQL Repair Advisor
- Viewing, Disabling, or Removing a SQL Patch

#### Module 21. Miscellaneous New Features

- Managing & Using SQL Query Result Cache
- Adaptive Cursor Sharing: Architecture
- Temporary tablespace shrinkage
- Using the client result cache

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**Разработка курсов и тестов под заказ**, внедрение корпоративных систем обучения.

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