PROFESSIONAL TRAINING COURSE



5 Days Course on Oracle Database 11g: Administration Workshop I Release 2

ORACLE®



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About the Course

This Oracle Database 11g: Administration Workshop I Release 2 course explores the fundamentals of basic database administration. Expert Oracle University instructors will reinforce topics with structured hands-on practices that will prepare you for the corresponding Oracle Certified Associate exam.

Prerequisites

Taken Oracle PL/SQL course or equivalent experience

Course Objectives

- Install Oracle Grid Infrastructure
- Install and configure Oracle Database 11g
- Configure Oracle Net services
- Monitor and administer undo data
- Manage the database storage structures
- Create and administer user accounts
- Perform basic backup and recovery of a database
- Manage data concurrency
- Monitor performance
- Describe Oracle Database Architecture

Course Settings

Venue/Date	Refer to Training Calendar
Timings	0900-1700
Inclusive	Certificates and notes
Course Fee	Contact Us at sales@2-sigma.com
Audience	IT Officer, Web Developer and Programmer

Oracle Admin - Schedule

Day 1		
9.00am – 10.00am	Exploring the Oracle Database Architecture	
	Oracle Database Architecture Overview	
	Oracle ASM Architecture Overview	
	Process Architecture	
	Memory structrues	
	 Logical and physical storage structures 	
	ASM storage components	
10.00am - 10.30am	Breakfast	
10.30am – 1.00pm	Installing your Oracle Software	
	Tasks of an Oracle Database Administrator	
	Tools Used to Administer an Oracle Database	
	Installation: System Requirements	
	Oracle Universal Installer (OUI)	
	Installing Oracle Grid Infrastructure	
	Installing Oracle Database Software	
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1.00pm – 2.00pm 2.00pm – 5.00pm	Lunch Creating an Oracle Database	
2.00pm = 5.00pm	Planning the Database	
	Using the DBCA to Create a Database	
	Password Management	
	Creating a Database Design Template	
	Using the DBCA to Delete a Database	
	Managing the Oracle Database Instance	
	Start and stop the Oracle database and components	
	Use Oracle Enterprise Manager	
	Access a database with SQLPlus	
	Modify database installation parameters	
	Describe the stages of database startup	
	 Describe database shutdown options 	
	View the alert log	
	Access dynamic performance views	
	Day 2	
9.00am – 10.00am	Manage the ASM Instance	
	Set up initialization parameter files for ASM instance Start and add that the set of the s	
	Start up and shut down ASM instances Administer ASM diels groups	
10.00am – 10.30am	Administer ASM disk groups Breakfast	
10.30am – 1.00pm	Configuring the Oracle Network Environment	
10.00am 1.00pm	Use Enterprise Manager to create and configure the Listener	
	Enable Oracle Restart to monitor the listener	
	Use tnsping to test Oracle Net connectivity	
	Identify when to use shared servers and when to use dedicated	
	servers	
1.00pm – 2.00pm	Lunch	
2.00pm – 5.00pm	Managing Database Storage Structures	
	Storage Structures	
	How Table Data Is Stored	
	Anatomy of a Database Block	
	Space Management in Tablespaces	

Actions with Tablespaces Oracle Managed Files (OMF) Validating Credit Cards Administering User Security Database User Accounts Predefined Administrative Accounts Predefined Administrative Accounts Predefined Administrative Accounts Predefined Roles Predefined Roles Predefined Roles Implementing Profiles Day 3 9.00am – 10.00am Managing Data Concurrency Data Manajing Undo Data Undo Data Undo Data Undo Data Versus Redo Data Undo Data Versus Redo Data Undo Data Versus Redo Data Describe DBA responsibilities for security Enable standard database auditing Describe DBA responsibilities for security Enable standard database auditing Specify audit options Review audit information Manitain the audit trail Dupm – 2.00pm Database Maintenance Manage optimizer statistics Manage optimizer statistics Manage the Automatic Workload Repository (AWR) Use the Automatic Database Diagnostic Monitor (ADDM) Describe and use the advisory framework Set alert thresholds Use server-generated alerts Use automated tasks Use automated tasks Day 4 Performance Management Performance Management Performance Monitoring Managing Memory Components Enabling Automatic Memory Management (AMM) Automatic Shared Memory Advisor Using Memory Advisors		
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	10.30am – 1.00pm	Using Memory Advisors
		Dynamic Performance Statistics
Troubleshooting and Tuning Views		Troubleshooting and Tuning Views
Invalid and Unusable Objects		Invalid and Unusable Objects
Backup and Recovery Concepts		Backup and Recovery Concepts
Part of Your Job		
Statement Failure		Statement Failure
User Error		User Error
Understanding Instance Recovery		Understanding Instance Recovery

	Phases of Instance Recovery
	Using the MTTR Advisor
	Media Failure
	Archive Log Files
1.00pm - 2.00pm	Lunch
2.00pm - 5.00pm	Performing Database Backups
	Backup Solutions: Overview
	Oracle Secure Backup
	User-Managed Backup
	Terminology
	Recovery Manager (RMAN)
	Configuring Backup Settings
	Backing Up the Control File to a Trace File
	Monitoring the Flash Recovery Area
	Day 5
9.00am – 10.00am	Performing Database Recovery
	Opening a Database
	Data Recovery Advisor
	Loss of a Control File
10.00am - 10.30am	Breakfast
10.30am - 1.00pm	Loss of a Redo Log File
	Data Recovery Advisor
	Data Failures
	Listing Data Failures
	Data Recovery Advisor Views
	Moving Data
	Describe ways to move data
	 Create and use directory objects
	 Use SQL*Loader to move data
	 Use external tables to move data
	General architecture of Oracle Data Pump
	 Use Data Pump export and import to move data
1.00pm – 2.00pm	Lunch
2.00pm – 5.00pm	Working with Support
	Use the Enterprise Manager Support Workbench
	Work with Oracle Support
	Log service requests (SR)
	Manage patches

More Information

Two Sigma Technologies

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To register, please email to sales@2-sigma.com or fax the registration form to 03-61880602, we will contact you for further action.