

Oracle Database 11g: Administration I

Oracle Certification Exam # 1Z0-052

Exam Topics

The following information from Oracle provides general guidelines for the content likely to be included on the Oracle Database 11g: Administration I exam.

Exploring the Oracle Database Architecture

- Explain the Memory Structures
- Describe the Process Structures
- Overview of Storage Structures

Preparing the Database Environment

- Identify the tools for Administering an Oracle Database
- Plan an Oracle Database installation
- Install the Oracle software by using Oracle Universal Installer (OUI)

Creating an Oracle Database

- Create a database by using the Database Configuration Assistant (DBCA)

Managing the Oracle Instance

- Setting database initialization parameters
- Describe the stages of database startup and shutdown
- Using alert log and trace files
- Using data dictionary and dynamic performance views

Configuring the Oracle Network Environment

- Configure and Manage the Oracle Network
- Using the Oracle Shared Server architecture

Managing Database Storage Structures

- Overview of tablespace and datafiles
- Create and manage tablespaces
- Space management in tablespaces

Administering User Security

- Create and manage database user accounts
- Grant and revoke privileges
- Create and manage roles

- Create and manage profiles

Managing Data and Concurrency

- Monitor and resolve locking conflicts

Managing Undo Data

- Overview of Undo
- Transactions and undo data
- Managing undo

Implementing Oracle Database Security

- Database Security and Principle of Least Privilege
- Work with Standard Database Auditing

Database Maintenance

- Use and manage optimizer statistics
- Use and manage Automatic Workload Repository (AWR)
- Use advisory framework
- Manage Alerts and Thresholds

Performance Management

- Use Automatic Memory Management
- Use Memory Advisors
- Troubleshoot invalid and unusable objects

Intelligent Infrastructure Enhancements

- Use the Enterprise Manager Support Workbench
- Managing Patches

Backup and Recovery Concepts

- Identify the types of failure that can occur in an Oracle database
- Describe ways to tune instance recovery
- Identify the importance of checkpoints, redo log files, and archived log files
- Overview of flash recovery area
- Configure ARCHIVELOG mode

Performing Database Backups

- Create consistent database backups
- Back up your database without shutting it down
- Create incremental backups
- Automate database backups
- Manage backups, view backup reports and monitor the flash recovery area

Performing Database Recovery

- Overview of Data Recovery Advisor

- Use Data Recovery Advisor to Perform recovery (Control file, Redo log file and Data file)

Moving Data

- Describe and use methods to move data (Directory objects, SQL*Loader, External Tables)
- Explain the general architecture of Oracle Data Pump
- Use Data Pump Export and Import to move data between Oracle databases