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TRAINING

## Oracle Database Administration

**Duration:** 5 days

### Prerequisites

A grounding in relational database concepts; familiarity with the use of graphical user interfaces

Some expertise with both SQL and PL/SQL in an Oracle environment is expected

This Oracle Database Administration training course will teach you skills that have been growing in demand over recent years, despite the downturn in the global economy. It will build on the SQL\*Plus and PL/SQL skills from the perspective of a technician responsible for creating and administering physical and logical file structures, in this powerful relational database product.

### Objectives

This Oracle Database Administration training course is for technical staff who are becoming responsible for creating and administering Oracle databases. Development staff may also benefit from attending this class to gain an overview of the work of a Database Administrator to aid in developing effective software systems that will be based on Oracle.

### Course Content

#### Database Administration:

- Memory, process and disk structure
- Instances and databases
- Storage structures
- Backup and recovery
- SQL and database tuning
- Network resource management

#### Oracle Architecture:

- Disk structures
- Parameter files
- Control files
- Data files
- Redo log files
- Password files
- Segments, extents and blocks
- Memory areas
- Shared pool
- Buffer cache
- Processes
- Database writer
- Log writer
- System monitor
- Process monitor
- Archiver
- Processing overview

continued...

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**Structured Query**

**Language:** 2 days

**SQL Server:** 2 days

**Unix:** 2 days

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## Oracle Database Administration (continued)

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### Creating a Database:

- Configuring the operating system
- Privileged account authentication
- Creating a parameter file
- Creating a database
- Creation commands
- Post creation actions
- Data dictionary management

### Starting and Stopping Oracle:

- Instance processing overview
- Startup command
- Startup stages
- Command options
- Shutdown commands and options
- Checking instance status
- Using the alert logs
- Trace files

### Tablespaces, Datafiles and Rollback Segments:

- Structure review
- Tablespace types
- System tablespace
- Non-system tablespaces
- Inside a tablespace
- Locally managed and dictionary managed tablespaces
- Datafiles
- Tablespace and datafile management
- Segments, extents and blocks
- Rollback segment operations
- Creating and managing rollback segments

### Tables and Indexes:

- Creating tables
- Data types
- Creation and management commands
- Inside a table
- Table management (alter, drop, move)
- Partitioned tables
- Indexes
- Creating indexes and setting storage criteria
- Index management

continued...

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**Structured Query Language:** 2 days

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### Database Integrity:

- Creating, altering and dropping constraints
- Enabling and disabling constraints
- Constraints and indexes
- More on index types
- Index-organised tables
- Bitmap indexes
- Reverse key indexes

### User and Resource Management:

- User accounts overview
- Resource profiles
- System and password limits
- Profile management
- Authentication choices:
  - Password
  - Operating system
  - Database
- Users and tablespaces
- Privileges and roles
- Creating and managing user account
- Tablespace quotas; data dictionary information

### Privileges:

- User and system privileges
- Assigning privileges to users
- Using roles
- Stored code privileges
- Invoker and definers rights

### Oracle Best Practices:

- User and system privileges
- Assigning privileges to users
- Using roles
- Stored code privileges
- Invoker and definers rights

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