SETC Training Corporate Logo

Oracle Training: Database Administration A to Z (DBCOMP2, 4 jours)

Description

The course Database Administration A to Z (Oracle Training) targets database management systems such as MySQL, Oracle, SQL Server, PostgreSQL. This course is designed to be a practical study into the management of a multi-platform database work environment. Though the focus will be on the Oracle platform, the content will be discussed in a platform generic way to allow practical application to SQL Server, MySQL and PostgreSQL environments. Part II of the course focusses on the components of a production environment that allow database professionals to excel in their mission critical responsibilities.

Tarifs

- Tarification: $3,750/person
- Rabais de 10% lorsque vous inscrivez 3 personnes.

Plan de cours

Installation

- Planning an Installation
- Preparing the Environment
- Performing and Verifying a MySQL Installation
- Tuning a MySQL Server
- Performing and Verifying an Oracle Installation
- Tuning an Oracle Server
- Performing and Verifying a SQL Server Installation
- Tuning a SQL Server
- Performing and Verifying a PostgreSQL Server Installation
- Tuning a PostgreSQL Server
- Putting It All Together

Relational Database Storage

- The Principles of Data Storage
- About Data Blocks and Their Impact on Performance and Design
- Creating and Managing Database Files with MySQL
- Creating and Managing Tablespaces with Oracle
- Creating and Managing Tablespaces with PostgreSQL
- Creating and Managing Database Files in SQL Server
- Retrieving Space Allocation and Usage with the Various Platforms

Performance Optimization

- Optimization Overview
- Analyzing Queries for Oracle, MySQL, PostgreSQL and SQL Server
- Gathering Practical and Strategic Data
- Understanding the Importance of the Execution Plan: Actual vs Estimated
- Optimizing for Data Retrieval
- Optimizing for Insert, Update and Delete
- Optimizing for Stored Procedures
- Analyzing and Performing Bulk Operations
- Analyzing and Optimizing Multi-Table Join Operations
- Understanding Server Transactions and Locks

Dealing with Deadlocks and Livelocks
Backup and Recovery
Fault Tolerance vs Backup
Planning a Backup Strategy
Implementing a Backup Strategy for Oracle
Implementing a Backup Strategy for MySQL
Automating Backups
Recovering From Failure
Recovering System Databases
Implementing Fault Tolerance and High Availability
Essentials of High Availability and Fault Tolerance
About Clustering and Mirroring
MySQL Fault Tolerance Options
Oracle Fault Tolerance Options
SQL Server Fault Tolerance Options
PostgreSQL Server Fault Tolerance Options
Implementing a Fault Tolerance Strategy
Implementing Security
Security Management Overview
Planning and Implementing Security Management
Configuring the Server
Creating Logins
Creating Users
Granting Permissions: Grant, Deny and Revoke
Other Security Considerations
Monitoring Databases
Overview of Monitoring Tools
Planning to Monitor your Server
Implementing Alerts and Notifications
Using Performance Counters - Establishing a Baseline
Using Performance Counters - Analyzing Data
Profiling and Analyzing Queries
A Complete Lab for Database Administrators