



DTC – Oracle Database

ORACLE: Level 1

OBJECTIVES

Oracle Database Quality of Service Management allows system administrators to directly manage application service levels hosted of Oracle Real Application Cluster databases. Using a policy-based architecture, QoS Management correlates accurate run-time performance and resource metrics, analyzes this data with its expert system to identify bottlenecks, and produces recommended resource adjustments to meet and maintain performance objectives under dynamic load conditions. Should sufficient resources not be available QoS will preserve the more business critical objectives at the expense of the less critical ones.

TARGET GROUP

Prerequisites:

- Oracle's comprehensive learning library has some courses designed for beginners.
- You can start with the Oracle by Example (OBE) tutorial: Oracle Database Quickstart.
- With the course, you should be able to do these basic operations in the Oracle database.

TRAINING METHOD

The course is spread over 30 hours that consists of lecture and lab work. There will be approximately 10 hours of lectures and 20 hours of hands-on lab work.

- Lab exercises are mandatory, have a fixed deadline, and are graded. The course puts heavy emphasis on lab exercises because software programming can only be learnt well by explicitly putting into practice the principles that have been taught (i.e. in simpler terms – by doing lots and lots of coding). Late submission (past the deadline) of exercises incur some penalty from total points.
- Instructors may provide relevant lecture/lab notes to students as (and when) necessary in the form of printed handouts and or via emails.
- Instructors may provide supplementary code snippets to students via email or in lab class to support the theory and or lab material that is being taught.
- At the end of the course, students may have to give an exam (which will be optional), that will test their knowledge on the material covered during the course. This exam may be practical and/or theoretical and is mandatory for any student wishing to join a higher level.
- Students are graded on the basis of attendance, lab exercises and exam in the increasing order of importance.

COURSE DURATION

- 30 hours
- Classes
 - ✓ Morning/Evening

COURSE BREAKDOWN

Theory:

1. SQL FUNDAMENTAL
 - Introduction to Oracle Database 11g
 - Retrieving Data using the SQL SELECT Statement
 - Restricting and Sorting Data
 - Using Single-Row Functions to Customize Output
 - Using Conversion Functions and Conditional Expressions
 - Reporting Aggregated Data Using the Group Functions
 - Displaying Data From Multiple Tables Using Joins
 - Using Subqueries to Solve Queries
 - Managing Tables using DML statements
 - Introduction to Data Definition Language

2. ORACLE DATABASE
 - Exploring the Oracle Database Architecture
 - Oracle Database Management Tools
 - Oracle Database Instance
 - Configuring the Oracle Network Environment
 - Administering User Security
 - Managing Database Storage Structures
 - Create and manage tablespaces
 - Managing Undo Data
 - Managing Data Concurrency
 - Implementing Oracle Database Auditing

LABS

Lab assignments will focus on the practice and mastery of contents covered in the lectures; and introduce critical and fundamental problem-solving techniques to the students.

DISCLAIMER

Please note that Deerwalk Training Center reserves the right to change the course syllabus of DTC – Oracle Database – Level 1 course at any time without prior notification.

ORACLE: Level 2

OBJECTIVES

Oracle Database Quality of Service Management allows system administrators to directly manage application service levels hosted of Oracle Real Application Cluster databases. Using a policy-based architecture, QoS Management correlates accurate run-time performance and resource metrics, analyzes this data with its expert system to identify bottlenecks, and produces recommended resource adjustments to meet and maintain performance objectives under dynamic load conditions. Should sufficient resources not be available QoS will preserve the more business critical objectives at the expense of the less critical ones.

TARGET GROUP

Prerequisites:

- Oracle's comprehensive learning library has some courses designed for beginners.
- You can start with the Oracle by Example (OBE) tutorial: Oracle Database Quickstart.
- With the course, you should be able to do these basic operations in the Oracle database.

TRAINING METHOD

The course is spread over 40 hours that consists of approximately 15 hours of lecture and 25 hours of hands-on lab work.

- Lab exercises are mandatory, have a fixed deadline, and are graded. The course puts heavy emphasis on lab exercises because software programming can only be learnt well by explicitly putting into practice the principles that have been taught (i.e. in simpler terms – by doing lots and lots of coding). Late submission (past the deadline) of exercises incur some penalty from total points.
- Instructors may provide relevant lecture/lab notes to students as (and when) necessary in the form of printed handouts and or via emails.
- Instructors may provide supplementary code snippets to students via email or in lab class to support the theory and or lab material that is being taught.
- At the end of the course, students may have to give an exam (which will be optional), that will test their knowledge on the material covered during the course. This exam may be practical and/or theoretical and is mandatory for any student wishing to join a higher level.
- Students are graded on the basis of attendance, lab exercises and exam in the increasing order of importance.

COURSE DURATION

- 40 hours
- Classes
 - ✓ Morning/Evening

COURSE DURATION

1. BACKUP AND RECOVERY CONCEPTS
 - Backup and Recovery Configuration
 - Performing Database Backups
 - Performing Database Recovery
 - Moving Data
 - Performing Database Maintenance
 - Managing Performance: SQL Tuning
 - Automating Tasks by Using Oracle Scheduler
 - Creating an Oracle Database Using DBCA
 - Upgrading Oracle Database Software
 - Introduction to DBAAS
2. ORACLE PLS/SQL
 - PL/SQL Fundamentals
 - Develop PL/SQL Program Units
3. ORACLE REAL APPLICATION CLUSTER (RAC)
4. ORACLE DATA INTEGRATOR (ODI)
5. SMALL PROJECT WITH ORACLE

LABS

Lab assignments will focus on the practice and mastery of contents covered in the lectures; and introduce critical and fundamental problem-solving techniques to the students.

DISCLAIMER

Please note that Deerwalk Training Center reserves the right to change the course syllabus of DTC – Oracle Database – Level 2 course at any time without prior notification.