



Oracle Database 11g R2: SQL Fundamentals - Complete Library



ora11g001-ver2

Instructor Resources From The Sideris Training Portal

5 Days

General Description

This Oracle 11g courseware training guide book will prepare students for the Oracle certification exams (OCP). This course book can be used as a user guide tutorial for ongoing reference long after the course is completed.

This training course reference book is a common starting point in the Sideris Oracle database curriculum for administrators, developers and business users.

In addition to receiving the print copy of this course book, all students will receive 30-day unlimited access to the e-Learning modules on The Sideris Training Portal.

Target Audience

The target audience for this training course is as follows:

- All Oracle professionals, both business and systems professionals, who wish to pass the Oracle certification exams and need a "how to" guide to acquire the knowledge of SQL.
- For non-Oracle professionals already experienced in the SQL but who wish to become acquainted with the unique and advanced features of Oracle SQL.
- Among the specific groups for whom this course will be helpful are application developers and database administrators.

Prerequisites

No mandatory prerequisites exist for this course. However, one or more of the following Sideris courses are suggested prerequisites:

- ENTERPRISE ARCHITECTURES FOR EXECUTIVES
- RELATIONAL DATABASE DESIGN & DATA MODELING

Certification

To prepare for the "Exam 1Z0-047: Oracle Database: SQL Certified Expert" certification, one must complete this course as well as the course

- ORACLE DATABASE 11G: NEW & ADVANCED FEATURES FOR DEVELOPERS.

Pages

905

Duration

5 days

Instructor Resources

Instructor resources from the [Sideris Training Portal](#). There is no substitute for a subject matter expert. Sideris custom print courseware combined with our online resources make distance-learning and virtual training more effective than ever. Download the instructor resources for this courseware and see how your instructor presentations improve!

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Objectives

The objective of this course is to provide an introduction to the SQL database language within the context of an Oracle database, based upon the latest features available. This enhanced revision includes many new and expanded conceptual subjects.

- A summation of relational database principles, an introduction to Oracle relational database server.
- Using SQL Developer and other available SQL interfaces.
- Writing simple SQL queries which isolate the exact data desired, format & sort the data as needed.
- Writing moderately complex SQL queries using various join techniques.
- Supplement SQL code with references to pseudo columns and system functions.
- Summarizing, grouping and combining data to obtain more meaningful query results and to allow one to draw conclusions and make business decisions based upon the data processed.
- Advanced query techniques such as set operations, sub-queries and summary functions, allowing one to solve some of the more complex theoretical query challenges.
- Creating and maintaining database tables using the SQL Data Definition Language (DDL).
- Managing data within tables using the SQL Data Manipulation Language (DML).
- Taking advantage of the latest features found within the database such as the use of regular expressions, support for international data, time zones and other topics.
- Learn to use the SQL99 join syntax and learn about the full range of join operations available, such as natural join, inner join, cross join, outer joins and others.
- Perform advanced SQL queries using techniques e.g. CASE structures, rollup and cube operations.
- Moving beyond basic table definitions, learn to define the full range of database objects, such as advanced table definitions and the creation of indexes, sequences, views and others.
- Use the powerful set of built-in SQL functions. These functions provide sophisticated manipulation of character, numeric and date data elements.
- Taking advantage of the latest features found within the Oracle release, such as the handling and tolerating DML errors without application interruption, newly added functions, and other topics.
- Obtain database object metadata from the data dictionary.
- Understand basic database security and object privileges.
- Protect database integrity and extend the conceptual data model using declarative constraints.
- Using SQL Developer and other available SQL interfaces.
- Develop complex SQL*Plus reports, reusable SQL*Plus scripts, control the SQL*Plus environment.

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