

Course overview:

Oracle10g Database Introduction to SQL (Part II)

(D129eng, 3 days)



www.courseware.co.uk
sales@courseware.co.uk

Overview and objectives

The primary objective of this 3-day course is to consider advanced subjects and techniques pertaining to the SQL database language. Even professionals experienced in other implementations of the industry-standard SQL language will benefit from the advanced and Oracle-specific features of SQL discussed in this course. Major subject areas to be explored are:

Moving beyond basic table definitions, consideration of defining the full range of database objects, such as advanced table definitions, indexes, sequences, views and others.

Understanding basic database security and object privileges.

Using the powerful set of built-in SQL functions.

Protecting the database and extending the basic data model using declarative constraints.

Performing advanced SQL queries such as grouping and cube operations and SQL99 join syntax.

Developing complex SQL*Plus reports and using SQL*Plus scripts

Who should attend?

The target audience for this course is all Oracle professionals. Further, this course is well suited 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. The course will help students to prepare for Exam 1Z1-042: Oracle Database 10g: Administration I in conjunction with the Oracle 10g Introduction to SQL Part I course.

Students should have attended the Oracle 10g Introduction to SQL Part I course prior to attending this course.

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SQL99 JOIN TECHNIQUES

- ABOUT ANSI/ISO SQL99 • CROSS JOINS • NATURAL JOINS • INNER JOINS • OUTER JOINS • ANTIJOINS • USING NAMED SUBQUERIES

ENHANCING GROUPS WITH ROLLUP & CUBE

- ABOUT ENHANCED GROUP PROCESSING • USING ROLLUP • USING CUBE

USING THE CASE EXPRESSION

SQL FUNCTIONS (CHARACTER)

- WHAT ARE THE SQL FUNCTIONS? • CHARACTER FUNCTIONS

SQL FUNCTIONS (NON-CHARACTER)

- NUMERIC FUNCTIONS • DATE FORMAT FUNCTIONS • DATE ARITHMETIC FUNCTIONS • NULL VALUE FUNCTIONS

DATABASE OBJECTS: RELATIONAL VIEWS

- ABOUT DATABASE OBJECTS • ABOUT RELATIONAL VIEWS • UPDATING VIEW DATA • MAINTAINING VIEW DEFINITIONS

DATABASE OBJECTS: DATA DICTIONARY STORAGE

- ABOUT THE DATA DICTIONARY • OBJECT-SPECIFIC DICTIONARY VIEWS • UNDERSTANDING THE DATA DICTIONARY STRUCTURE

DATABASE OBJECTS: INDEXES

DATABASE OBJECTS: OTHER OBJECTS

- CREATING AN APPLICATION SCHEMA • MORE ABOUT CREATING TABLES • DEFINING SEQUENCES • ABOUT SYNONYMS • CREATE SCHEMA AUTHORIZATION

DATABASE SECURITY

- ABOUT DATABASE SECURITY • USER ID PASSWORDS • OBJECT SECURITY

DATA INTEGRITY USING CONSTRAINTS

- ABOUT CONSTRAINTS • NOT NULL CONSTRAINT • CHECK CONSTRAINT • UNIQUE CONSTRAINT • PRIMARY KEY CONSTRAINT • REFERENCES CONSTRAINT • DEFINING CONSTRAINTS ON EXISTING TABLES

MAINTAINING CONSTRAINT DEFINITIONS

- MAINTAINING CONSTRAINTS • RENAMING & DROPPING CONSTRAINTS • ENABLING & DISABLING CONSTRAINTS • VALIDATE NEW TRANSACTIONS ONLY • DEFERRED ENFORCEMENT • MANAGING CONSTRAINT EXCEPTIONS • CONSTRAINTS AND VIEWS • DATA DICTIONARY STORAGE

ADVANCED SQL*PLUS REPORTS

- ABOUT THE REPORT COMMANDS • BREAK • COMPUTE • COLUMN • TTITLE & BTITLE

BUILDING SQL*PLUS SCRIPTS

- ABOUT SCRIPT FILES • USING SQL*PLUS VARIABLES • ACCEPT • PROMPT • PAUSE

ADVANCED SQL & SQL*PLUS FEATURES

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