Certification Exam Preparation Seminar: Oracle Database SQL

Duration: 1 Day

What you will learn

This video seminar – Certification Exam Preparation Seminar: Oracle Database SQL will help you prepare to take any of the following Oracle Database certification exams:

Oracle Database SQL Expert (exam number 1Z0-047)
Oracle Database 11g: SQL Fundamentals I (exam number 1Z0-051)

Learn To:

Follow strategies that will help you be successful on the exam.
Perform a skills & knowledge gap analysis that will help guide the balance of your study (included in the bonus materials).
Manipulate data in the Oracle Database (by review).
Solve queries using subqueries.
Restrict and sort data (by review).
Create a customized study plan (included in bonus materials).

OCA Level Certification

Become ready to take and pass one of the required exams for Oracle Database OCA level certification (see the Oracle Certification website for more information). Led by one of our Oracle Database expert instructors, this fast-paced video-based seminar will increase your confidence by giving you exclusive tips and strategies to prepare you for the certification exam.

Develop an Oracle SQL Foundation

This Exam Preparation Seminar is intended to help those with a solid foundation in Oracle SQL. It provides a thorough review of the exam objectives, while helping you understand the breadth of topics and skills required to pass the exams listed above.

Exam Preparation Seminar Format

Exam Preparation Seminars are fast-paced video-based reviews that include slides, lecture and in some cases, simple demos. Exam Prep Seminars do not include: an Oracle University eKit, expert video, labs, student environment, simulations or student Q&A. This seminar does not meet the hands-on course requirement (if applicable to your certification track).

Available for Repeated Review

This seminar may be accessed for repeated review as needed during subscription term.

Related Training

Suggested Prerequisites
Foundational knowledge of SQL

Course Objectives
Review key technology and certification concepts related to Oracle's SQL certification exams

Prepare for your SQL certiifcation exam

Learn from one of Oracle University's top instructors

Get information that will help you complete your preparation and study

Get information and tips that will help you prepare

Understand the breadth of the SQL certication exams

Course Topics

SQL SELECT Statement
Retrieving Data
List the capabilities
Execute a basic SELECT statement
Differentiate between SQL statements and iSQL*Plus commands

Restricting and Sorting Data
Limit the rows that are retrieved by a query
Sort the rows that are retrieved by a query
Use ampersand substitution in iSQL*Plus to restrict and sort output at run time

Using Single-Row Functions to Customize Output
Describe various types of functions that are available in SQL
Use character, number, and date functions in SELECT statements

Describe the use of conversion functions

Reporting Aggregated Data Using the Group Functions
Identify the available group functions
Describe the use of group functions
Group data by using the GROUP BY clause
Include or exclude grouped rows by using the HAVING clause

Displaying Data from Multiple Tables
Write SELECT statements to access data from more than one table using equijoins and nonequijoins
Join a table to itself by using a self-join
View data that generally does not meet a join condition by using outer joins
Generate a Cartesian product of all rows from two or more tables

Using Subqueries to Solve Queries
Define subqueries
Describe the types of problems that subqueries can solve
List the types of subqueries
Write single-row and multiple-row subqueries

Using the Set Operators
Describe set operators
Use a set operator to combine multiple a single query
Control the order of rows returned

Manipulating Data
Describe each data manipulation language (DML) statement
Insert rows into a table
Update rows in a table
Delete rows from a table
Control transactions

Using DDL Statements to Create and Manage Tables
Categorize the main database objects
Review the table structure
List the data types that are available for columns
Create a simple table
Explain how constraints are created at the time of table creation
Describe how schema objects work
Drop, rename and truncate tables

Creating Other Schema Objects
Create simple and complex views
Retrieve data from views
Insert, update and delete data through a view
Alter the definition, and drop a view
Create, maintain, and use sequences
Create and maintain indexes
Create private and public synonyms

Managing Objects with Data Dictionary Views
Use the data dictionary views to research data on your objects

Query various data dictionary views

Controlling User Access
Differentiate system privileges from object privileges
Grant privileges on tables
View privileges in the data dictionary
Grant roles
Distinguish between privileges and roles

Managing Schema Objects
Add constraints
Create indexes
Create indexes using the CREATE TABLE statement
Creating function-based indexes
Drop columns and set column UNUSED
Perform FLASHBACK operations
Create and use external tables

Manipulating Large Data Sets
Manipulate data using subqueries
Describe the features of multitable INSERTs
Use multiple types of INSERTs
Merge rows in a table

Generating Reports by Grouping Related Data
Use the ROLLUP operation to produce subtotal values
Use the CUBE operation to produce crosstabulation values
Use the GROUPING function to identify the row values created by ROLLUP or CUBE
Use GROUPING SETS to produce a single result set

Managing Data in Different Time Zones
Use Various datetime functions

Retrieving Data Using Subqueries
Write a multiple-column subquery
Use scalar subqueries in SQL
Solve problems with correlated subqueries
Update and delete rows using correlated subqueries
Use the EXISTS and NOT EXISTS operators
Use the WITH clause

Hierarchical Retrieval
Interpret the concept of a hierarchical query
Create a tree-structured report
Format hierarchical data
Exclude branches from the tree structure

Regular Expression Support
Using Meta Characters
Regular Expression Functions
Replacing Patterns
Regular Expressions and Check Constraints

Producing Readable Output with iSQL*Plus

Produce queries that require a substitution variable

Produce more readable output

Create and execute script files