

uCertify

Course Outline

Oracle Database SQL Expert



Lesson



Practice test

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1. **Course Objective**

Gain hands-on expertise in Oracle Database SQL Expert: 1Z0-047 certification exam by 1Z0-047 - Oracle Database SQL Expert course. Oracle Database SQL Expert: 1Z0-047 exam is designed to certify the competency of database professionals to manage, develop, or implement enterprise-wide databases, middleware, or applications. It covers following domains: Retrieving, Restricting, and Sorting Data Using SQL; Reporting Aggregated Data; Using the Group Functions; Managing Tables Using DML Statements; and much more.

2. **Pre-Assessment**

Pre-Assessment lets you identify the areas for improvement before you start your prep. It determines what students know about a topic before it is taught and identifies areas for improvement with question assessment before beginning the course.

3. **Exercises, Quizzes, Flashcards & Glossary**

Each lesson comes with Exercises, Flashcards & Quizzes. There is no limit to the number of times

learners can attempt these. Exercises come with detailed remediation, which ensures that learners are confident on the topic before proceeding. Flashcards help master the key concepts while Glossary defines the key terms.

Number of Questions

800

Over 800 unique questions including pre-assessment, quizzes, exercises, and post assessment.

4. Expert Instructor-Led Training

uCertify uses the content from the finest publishers and only the IT industry's finest instructors. They have a minimum of 15 years real-world experience and are subject matter experts in their fields. Unlike a live class, you can study at your own pace. This creates a personal learning experience and gives you all the benefit of hands-on training with the flexibility of doing it around your schedule 24/7.

5. ADA Compliant & JAWS Compatible Platform

uCertify course and labs are ADA (Americans with Disability Act) compliant. It is now more accessible to students with features such as:

- Change the font, size, and color of the content of the course
- Text-to-speech, reads the text into spoken words
- Interactive videos, how-tos videos come with transcripts and voice-over
- Interactive transcripts, each word is clickable. Students can clip a specific part of the video by clicking on a word or a portion of the text.

JAWS (Job Access with Speech) is a computer screen reader program for Microsoft Windows that reads the screen either with a text-to-speech output or by a Refreshable Braille display. Student can easily navigate uCertify course using JAWS shortcut keys.

6. State of the Art Educator Tools

uCertify knows the importance of instructors and provide tools to help them do their job effectively. Instructors are able to clone and customize course. Do ability grouping. Create sections. Design grade scale and grade formula. Create and schedule assignments. Educators can also move a student from self-paced to mentor-guided to instructor-led mode in three clicks.

7. Award Winning Learning Platform (LMS)

uCertify has developed an award winning, highly interactive yet simple to use platform. The SIIA CODiE Awards is the only peer-reviewed program to showcase business and education technology's finest products and services. Since 1986, thousands of products, services and solutions have been recognized for achieving excellence. uCertify has won CODiE awards consecutively for last 3 years:

- **2014**
 1. Best Postsecondary Learning Solution

- **2015**
 1. Best Education Solution
 2. Best Virtual Learning Solution
 3. Best Student Assessment Solution
 4. Best Postsecondary Learning Solution
 5. Best Career and Workforce Readiness Solution
 6. Best Instructional Solution in Other Curriculum Areas
 7. Best Corporate Learning/Workforce Development Solution

- **2016**
 1. Best Virtual Learning Solution
 2. Best Education Cloud-based Solution
 3. Best College and Career Readiness Solution
 4. Best Corporate / Workforce Learning Solution
 5. Best Postsecondary Learning Content Solution
 6. Best Postsecondary LMS or Learning Platform
 7. Best Learning Relationship Management Solution

8. Chapter & Lessons

uCertify brings these textbooks to life. It is full of interactive activities that keeps the learner engaged. uCertify brings all available learning resources for a topic in one place so that the learner can efficiently learn without going to multiple places. Challenge questions are also embedded in the chapters so learners can attempt those while they are learning about that particular topic. This helps them grasp the concepts better because they can go over it again right away which improves learning.

Learners can do Flashcards, Exercises, Quizzes and Labs related to each chapter. At the end of every lesson, uCertify courses guide the learners on the path they should follow.

Syllabus

Chapter 1: Retrieving Data Using the SQL SELECT Statement

- List the capabilities of SQL SELECT statements
- Execute a basic SELECT statement
- Describe how schema objects work

Chapter 2: Restricting and Sorting Data

- Limit the rows that are retrieved by a query

- Sort the rows that are retrieved by a query

Chapter 3: 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

Chapter 4: 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

Chapter 5: Displaying Data from Multiple Tables

- View data that generally does not meet a join condition by using outer joins
- 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
- Generate a Cartesian product of all rows from two or more tables

Chapter 6: 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

Chapter 7: Using the Set Operators

- Describe set operators
- Use a set operator to combine multiple queries into a single query
- Control the order of rows returned

Chapter 8: 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

Chapter 9: 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

Chapter 10: Creating Other Schema Objects

- Create simple and complex views
- Retrieve data from views
- Create, maintain, and use sequences
- Create and maintain indexes
- Create private and public synonyms

Chapter 11: Managing Objects with Data Dictionary Views

- Use data dictionary views to research data on your objects
- Query various data dictionary views

Chapter 12: 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

Chapter 13: 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

Chapter 14: Manipulating Large Data Sets

- Track the changes to data over a period of time
- Manipulate data using subqueries
- Describe the features of multitable INSERTs
- Use the following types of multitable INSERTs (Unconditional, Conditional, and Pivot)
- Merge rows in a table

Chapter 15: Generating Reports by Grouping Related Data

- Use the ROLLUP operation to produce subtotal values
- Use the CUBE operation to produce cross tabulation values
- Use the GROUPING function to identify the row values created by ROLLUP or CUBE
- Use GROUPING SETS to produce a single result set

Chapter 16: Managing Data in Different Time Zones

- Use various datetime functions

Chapter 17: 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

Chapter 18: Hierarchical Retrieval

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

Chapter 19: Regular Expression Support

- Using Metacharacters
- Regular Expression Functions
- Replacing Patterns
- Regular Expressions and Check Constraints

Videos and How To

uCertify course includes videos to help understand concepts. It also includes How Tos that help learners in accomplishing certain tasks.

6

VIDEOS

59

MINUTES

9. Practice Test

uCertify provides full length practice tests. These tests closely follow the exam objectives and are designed to simulate real exam conditions. Each course has a number of test sets consisting of hundreds of items to ensure that learners are prepared for the certification exam.

Here's what you get

15

PRE-ASSESSMENTS
QUESTIONS

6

FULL LENGTH TESTS

70

POST-ASSESSMENTS
QUESTIONS

Features

Full Remediation

Each question comes with detailed remediation explaining not only why an answer option is correct but also why it is incorrect.

Unlimited Practice

Each test can be taken unlimited number of times until the learner feels they are prepared. Learner can review the test and read detailed remediation. Detailed test history is also available.

Learn, Test and Review Mode

Each test set comes with learn, test and review modes. In learn mode, learners will attempt a question and will get immediate feedback and complete remediation as they move on to the next question. In test mode, learners can take a timed test simulating the actual exam conditions. In review mode, learners can read through one item at a time without attempting it.

10. Post-Assessment

After completion of the uCertify course Post-Assessments are given to students and often used in conjunction with a Pre-Assessment to measure their achievement and the effectiveness of the exam.

Have Any Query? We Are Happy To Help!

GET IN TOUCH:

■ Call: +1-415-763-6300

■ Email: sales@ucertify.com

■ www.ucertify.com