

1Z0-071: Oracle Database SQL

Write accurate, efficient SQL on Oracle Database and prepare thoroughly for the 1Z0-071 exam.

DURATION

5 days · 40 hours

LEVEL

Beginner

CURRICULUM

15 modules · 10 labs

DELIVERY

Live online, Onsite,
Corporate

Course overview

SQL is the most durable skill in data work, and Oracle Database remains central to banking, telecom, government and ERP systems across India and the Gulf. This five-day course teaches SQL thoroughly on Oracle, with the precision the 1Z0-071 exam demands.

Days one and two cover retrieving data: the SELECT statement, filtering and sorting, substitution variables, single-row functions for characters, numbers and dates, conversion functions and conditional expressions, followed by group functions, GROUP BY and HAVING. Every topic is practised immediately on a sample schema.

Day three focuses on combining data with joins of every type, subqueries — single-row, multi-row and correlated — and set operators. Day four turns to changing data and structures: INSERT, UPDATE, DELETE and MERGE, transaction control, creating and altering tables, constraints, views, sequences, synonyms and indexes, and the data dictionary.

Day five covers user access and privileges, managing data across time zones, an introduction to analytic functions, and an exam readiness session with timed practice and a review of the question styles that catch candidates out.

This course is aligned to the Oracle Database SQL exam, 1Z0-071. Ace Skills is not an Oracle partner and does not use official courseware. Please confirm the current exam details on Oracle University before booking.

Highlights

- 40 hours of live, trainer-led sessions
- Hands-on practice in a live Oracle Database
- Joins, subqueries, set operators and analytic basics
- DDL, DML, transactions and schema objects
- Practice questions with explained answers

What's included

- Live Oracle Database environment
- Hundreds of graded practice queries
- Clear coverage of NULL handling and implicit conversion
- Joins, subqueries and set operators in depth
- Schema objects and data dictionary labs
- Timed practice questions with explanations
- Course completion certificate from Ace Skills Consulting
- Post-training doubt support

Who this course is for

Who should attend

- Aspiring database developers and administrators
- Data and business analysts
- Application developers working with Oracle
- ERP and reporting professionals
- Graduates starting a career in data

Prerequisites

- Basic computer literacy
- Familiarity with tables and spreadsheets
- No prior SQL experience required

Detailed curriculum — 5 days, 40 hours, 15 modules, 10 hands-on labs

Day 1 Relational Concepts and Retrieving Data

8 hours

1.1 Relational database concepts

- Tables, rows and keys
- SQL statement categories
- Entity relationships
- Tools: SQL Developer and SQL*Plus

1.2 SELECT basics

- Selecting columns and expressions
- DISTINCT
- Column aliases and concatenation
- NULL handling

LAB Query the sample HR schema · 40 min

1.3 Restricting and sorting

- WHERE conditions
- LIKE, IN, BETWEEN
- Row limiting with FETCH
- Comparison and logical operators
- ORDER BY
- Substitution variables

LAB Filter and sort employee data · 45 min

Day 2 Functions and Aggregation

8 hours

2.1 Single-row functions

- Character functions
- Date functions and arithmetic
- Number functions
- Nesting functions

LAB Format and calculate with single-row functions · 40 min

2.2 Conversion and conditional expressions

- Implicit and explicit conversion
- NVL, NVL2, NULLIF, COALESCE
- TO_CHAR, TO_DATE, TO_NUMBER
- CASE and DECODE

2.3 Aggregating data

- Group functions
- HAVING
- GROUP BY
- Nesting group functions

LAB Departmental summary report with GROUP BY and HAVING · 45 min

Day 3 Joins, Subqueries and Set Operators

8 hours

3.1 Joins

- Equijoins and non-equijoins
- Outer joins
- Cartesian products
- Self-joins
- Natural joins and USING

LAB Combine data from four tables · 50 min

3.2 Subqueries

- Single-row subqueries
- Correlated subqueries
- NULLs in subqueries
- Multi-row subqueries
- EXISTS and NOT EXISTS

LAB Answer business questions with subqueries · 50 min

3.3 Set operators

- UNION and UNION ALL
- Matching columns and ordering results
- INTERSECT and MINUS

Day 4 Changing Data and Schema Objects

8 hours

4.1 Data manipulation

- INSERT, UPDATE and DELETE
- Multi-table inserts
- Read consistency
- MERGE
- Transactions: COMMIT, ROLLBACK, SAVEPOINT

LAB Apply and roll back data changes · 40 min

4.2 Tables and constraints

- Data types
- Constraints
- CREATE and ALTER TABLE
- Dropping, truncating and flashback basics

LAB Build a schema with constraints · 45 min

4.3 Other schema objects

- Views
- Synonyms
- Data dictionary views
- Sequences
- Indexes

LAB Create views, sequences and indexes · 35 min

Day 5 Security, Advanced Topics and Exam Readiness

8 hours

5.1 Controlling access

- System and object privileges
- GRANT and REVOKE
- Roles

5.2 Advanced topics

- Time zones and TIMESTAMP types
- Introduction to analytic functions
- Interval data types
- Hierarchical query overview

5.3 Exam readiness

- Exam topic review
- Timed practice questions with review
- Common traps

LAB Timed practice set with explanations · 90 min

Skills and tools

Skills you will build

SQL

Oracle Database

SELECT queries

Single-row functions

Aggregation

Joins

Subqueries

Set operators

DML

DDL

Constraints

Views & indexes

Privileges

Tools used in class

Oracle Database

Oracle SQL Developer

SQL*Plus

Oracle Live SQL

Certification exam

This course is aligned to the exam below and prepares you for it. The exam itself is booked and taken with the vendor.

Exam	Oracle Database SQL Certified Associate
Exam code	1Z0-071
Official page	https://education.oracle.com/certification

Exam skill areas covered

Relational database concepts
Data manipulation language and conditional expressions

Exam details are pending verification. Confirm the current exam code, format and fee on the official vendor page before booking.

Frequently asked questions

Do I need any SQL experience?

No. The course starts from relational basics, but the pace increases quickly, so daily practice helps.

Is the exam only about Oracle?

It uses Oracle Database syntax and behaviour, but most of what you learn applies to other SQL databases.

Will I have a database to practise on?

Yes. You get access to a live Oracle Database during the course and guidance for free practice options afterwards.

Is this an official Oracle course?

No. It is an independent Ace Skills course aligned to the 1Z0-071 exam topics.

Book a batch or talk to an advisor

Course page: aceskillsconsulting.com/course/1z0-071-oracle-database-sql · Email: info@aceskillsconsulting.com

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