Oracle Database Administration I (1Z0-082) Certification Training Course

4 – 8 January 2027
Berlin

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Overview

The Oracle Database Administration I 1Z0-082 Certification Training Course is a one-week technical course designed for database administrators, systems engineers, and technical specialists seeking systematic skills in relational database administration and Structured Query Language management. Enterprise operations often encounter performance degradation, data access vulnerabilities, and storage allocation bottlenecks caused by incomplete baseline architectures and unaligned administration procedures. Participants examine core database engine operations, storage allocations, structured querying, network resolution, and access security controls. Agile Leaders Training Center delivers this foundational database administration syllabus.

Who Should Attend

- Database administrators responsible for operational uptime, storage provisioning, and database instance integrity
- Systems engineers maintaining infrastructure hosting, network listeners, and instance startup parameters
- Technical support specialists handling data manipulation, schema object updates, and user session monitoring
- Security analysts evaluating technical access baselines, database privilege allocations, and audit trails
- Data administrators managing relational schemas, table spaces, and bulk movement operations

The course assumes that participants have basic exposure to operating system command-line interfaces and elementary data concepts, leaving out advanced multi-node cluster configuration.

Departments and Industries

The course serves technical teams across core commercial and utility sectors.

- Information technology and database administration departments
- Commercial retail and electronic inventory management divisions
- Telecommunications network operations and subscriber billing units
- Hospitality reservation systems and guest data management units
- Enterprise systems architecture and hosting operations

Learning Objectives

By the end of this course, participants will be able to:

- Apply relational SQL queries using join operations, aggregation methods, and subqueries.
- Build schema structures utilizing standard data definition and data manipulation statements.
- Configure database instance memory segments, control parameters, and initialization files.
- Manage physical storage components including tablespaces, datafiles, and undo segments.
- Diagnose client connectivity issues through listener configurations and local naming files.
- Prioritize user security profiles, operational roles, and granular privilege assignments.

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Course Agenda

Day 1: SQL Fundamentals and Relational Data Manipulation

- Relational Database Concepts and Structured Query Language Standards
- Data Retrieval Techniques with Selective WHERE Filtering and Sorting
- Single-Row Function Operations and Grouping Aggregation Routines
- Subquery Execution Patterns and Set Operator Implementations
- Data Definition Language and Data Manipulation Language Transaction Boundaries

Day 2: Database Architecture and Instance Management

- System Global Area and Program Global Area Memory Allocations
- Initialization Parameter Management via SPFILE and PFILE Configurations
- Database Instance Startup Stages and Controlled Shutdown Routines
- Data Dictionary Architecture and Dynamic Performance Views Inspection
- Alert Log Monitoring and Diagnostic Background Process Analysis

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Day 3: Storage Structures and Data Movement

- Tablespace Provisioning, Extent Allocation, and Datafile Management
- Automated Segment Space Management and Segment Shrink Procedures
- Undo Tablespace Retention Sizing and Transaction Rollback Behavior
- Oracle Data Pump Export and Import Utility Execution
- SQL*Loader Utility Operations and External Table Data Integration

Day 4: Network Connectivity and Access Administration

- Oracle Net Services Architecture and Listener Process Configuration
- Client Connection Resolution using tnsnames.ora Configuration Files
- User Account Provisioning and PROFILE Password Policy Baselines
- System and Object Privilege Delegation across Organizational Roles
- Auditing Implementations and Session Monitoring Techniques

Day 5: Practical Administration and Operational Consolidation

- Database Instance Maintenance Exercise across Memory and Storage Allocations
- Network Configuration Exercise for Listener and Local Naming Resolution
- Role-Based Security Exercise Implementing Profile Thresholds and Access Limits
- Data Movement Exercise utilizing Data Pump Command Routines
- Capstone Administration Project Integrating Instance Setup, Security, and Storage Maintenance

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Practical Exercises

The course incorporates structured hands-on sessions to reinforce administrative and querying skills.

- SQL Scripting Exercise: Build schemas, write data aggregation queries, and enforce transaction control blocks as a suggested activity.
- Instance Provisioning Exercise: Modify initialization parameter settings, monitor memory allocations, and inspect operational views as a suggested activity.
- Access Governance Exercise: Establish user profiles, assign operational privileges, and tune connection listener configurations as a suggested activity.
- Consolidated Administration Case: Implement storage structures and perform export operations to validate operational baselines as a suggested activity.

FAQs

Who suits the Oracle Database Administration I 1Z0-082 Certification Training Course?

The course suits IT specialists, systems engineers, and technical operators handling data operations. It assumes working familiarity with computing terminal interfaces, but does not assume prior relational database administration experience.

How does this course differ from general database querying training?

This course combines foundational query design with physical storage architecture, server parameter files, background instance structures, network listeners, and administrative user controls rather than focusing strictly on SQL syntax.

What administrative tools are practiced in the Oracle Database Administration I 1Z0-082 Certification Training Course?

Participants practice with SQL*Plus, Oracle SQL Developer, and command-line utilities such as Data Pump to configure storage, manage parameters, and maintain database services.

How does the course address database network connectivity?

The course analyzes Oracle Net Services mechanisms, configuring listener processes and local naming resolution files to establish dependable client-server communication.

What user security methods are applied in the training?

Participants apply role-based access control, create custom user profiles with resource restrictions, enforce password management criteria, and assign granular object privileges.

Conclusion

Participants complete the course with an operational database configuration runbook covering storage allocation, network resolution, and access governance settings. This artifact establishes standardized baseline parameters and consistent administration workflows across database infrastructure. The resulting implementation minimizes system downtime and strengthens operational reliability across database operations.