

Accelerated Fundamentals of SQL Using Oracle

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What You Will Learn

This course covers the fundamentals of SQL in an Oracle environment for users who already have intermediate SQL experience using another database system, such as Microsoft SQL Server. Specifically, this course assumes prior knowledge and experience with a variety of introductory and intermediate SQL commands, such as `select`, `insert`, `delete`, and `create table` statements. In addition, you should have experience selecting data from multiple tables, using subqueries and joins.

During this class, you will practice running some familiar SQL commands in an Oracle environment, while learning about extensions to standard SQL that are specific to Oracle or vary between database management systems. In the latter part of the class, you also will learn about several advanced uses of SQL in Oracle, such as working with users and writing SQL scripts. Specifically, the topics covered in this course include the following:

- Using Oracle's SQL*Plus environment to run standard SQL commands, such as `select` statements to view table data.
- Understanding SQL*Plus commands that can be useful in editing SQL statements, customizing the Oracle environment, and more.
- Using single-row and group functions that may not be available in all database systems.
- Creating new tables, including understanding the datatypes available in Oracle and applying constraints.
- Modifying existing tables, including renaming tables, adding and removing columns, and adding and dropping constraints.
- Understanding how to control access to your database by creating users and assigning roles and privileges.
- Writing scripts to run frequently used SQL commands.

While some review is necessary to practice running SQL commands in Oracle, this review will be conducted at an accelerated pace, and not all standard SQL commands and techniques will be discussed. For example, in the interest of time, some fundamental techniques, such as specifying multiple criteria in a `select` statement, creating joins and subqueries, and running data manipulation commands to update and delete records, are not reviewed in this course.