

55352A Introduction to SQL Database

Duration: 3 Days

Course Description:

The Introduction to SQL course offers a comprehensive exploration of the fundamentals of SQL, a powerful query language used to interact with relational databases. Students will learn about the history of SQL, relational databases, popular database systems, and basic SQL statements.

The course guides learners through simple SELECT statements, advanced SELECT queries, and the use of subqueries, joins, and unions. Additionally, students will explore conditional processing with CASE and learn how to insert, update, and delete records. Throughout the course, practical examples and hands-on exercises are used to reinforce learning and help students apply their knowledge to real-world scenarios.

Target Audience:

This course is designed for beginners in database management, IT professionals, data analysts, students, business analysts, and software developers who want to learn SQL. Whether you're looking to enhance your career, analyze data, or integrate databases into applications, this course provides a solid foundation in SQL and relational databases through practical examples and hands-on exercises.

Course Objectives:

- Comprehensive coverage: The course covers all essential aspects of SQL, from basic concepts to advanced techniques, ensuring students gain a strong foundation in SQL and relational databases.
- Practical examples: The course uses real-world examples and scenarios to help students understand how to apply SQL concepts in practice.
- Hands-on learning: Students will engage in hands-on exercises and activities to reinforce their learning and gain practical experience in working with SQL.
- Engaging content: The course is designed to be engaging and easy to follow, ensuring that students remain interested and focused throughout their learning experience.
- Experienced authors: This courseware is authored by experts in the field of SQL, ensuring that the content is both accurate and up to date.

Course Outlines:

Module 01: Relational Database Basics

- History of SQL
- Relational Databases
- Popular Databases
- SQL Statements

Module 02: Simple SELECTs

- Introduction to the Northwind Database
- Some Basics
- SELECTing All Columns in All Rows
- Exploring the Tables (Exercise)
- SELECTing Specific Columns
- SELECTing Specific Columns (Exercise)
- Sorting Records
- Sorting Results (Exercise)
- The WHERE Clause and Operator Symbols
- Using the WHERE Clause to Check for Equality or Inequality (Exercise)
- Checking for Greater or Less Than
- Using the WHERE Clause to Check for Greater or Less Than (Exercise)
- Checking for NULL
- Checking for NULL (Exercise)
- WHERE and ORDER BY
- Using WHERE and ORDER BY Together (Exercise)
- Checking Multiple Conditions with Boolean Operators
- Writing SELECTs with Multiple Conditions (Exercise)
- The WHERE Clause and Logical Operator Keywords
- More SELECTs with WHERE (Exercise)

Module 03: Advanced SELECTs

- Calculated Fields
- Calculating Fields (Exercise)
- Aggregate Functions and Grouping
- Working with Aggregate Functions (Exercise)
- Selecting Distinct Records
- Built-in Data Manipulation Functions
- Data Manipulation Functions (Exercise)

Module 04: Subqueries, Joins and Unions

- Subqueries
- Subqueries (Exercise)
- Joins
- Using Joins (Exercise)
- Outer Joins
- Unions
- Working with Unions (Exercise)

Module 05: Conditional Processing with CASE

- Using CASE
- Working with CASE (Exercise)

Module 06: Inserting, Updating and Deleting Records

- INSERT
- Inserting Records (Exercise)
- UPDATE
- DELETE
- Updating and Deleting Records (Exercise)

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