

SQL Queries for Analysts

Price: 1795

Duration: 4 days

Delivery Methods: Virtual

Overview

Welcome to the SQL Queries for Analysts course, a comprehensive journey designed to empower you with the expertise in SQL for effective data analysis. As you embark on this educational adventure, you'll gain a deep understanding of how SQL query writing can transform raw data into actionable insights.

This course is meticulously crafted to cater to both experienced professionals and newcomers in the field of data analysis. Regardless of your programming background, you will find the content both accessible and challenging. The curriculum starts with the fundamentals of SQL, using Microsoft SQL as the platform for practical learning.

You'll be guided through a series of progressively complex scenarios, where you'll learn to construct and refine SQL queries to extract meaningful information from databases. By the conclusion of this course, you will have developed a robust skill set in SQL query writing, equipping you to tackle real-world data analysis challenges with confidence and proficiency.

Whether your goal is to enhance your existing database skills or to start a new journey in data analysis, this course will be a pivotal step in your professional development.

Audience Profile

This course is intended for information workers and database professionals who have a general familiarity with databases prior to the class.

Working knowledge of Microsoft SQL Server or Microsoft Office applications is beneficial.

At Course Completion

Course Highlights

Introduction to SQL and database design concepts.

Mastering SQL Server Management Studio (SSMS) for query writing.

Building basic SELECT statements and gradually advancing to complex queries.

Working with data types, expressions, and logical operators.

Effective handling of NULL data.

Aggregating and grouping data using aggregate functions.

Joining multiple tables for comprehensive data analysis.

Exploring built-in SQL functions for mathematical, string, and date-time operations.

Harnessing the power of subqueries for in-depth data analysis.

Outline

Introduction

Course Overview

Data Manipulation Verbs

Courseware Overview

Datasets Overview

Overview of SSMS and Query Writing

Working with SSMS

Using the SQL Editor

Creating SSMS Script Projects

Tips and Tricks with SSMS

Adding Comments to Queries

Understanding Batches and Scripts

Database Design Concepts

What is SQL

Database Diagrams

Database Terminology Overview

Lab

Solution to the Exercise

Basic SELECT Statements

The SELECT Statement

Execution Order of SELECT Statements

Ordering Results

Additional SELECT Options

Lab

Answers to Exercises

Working with Data Types

Data Type Precedence

String Related Data Types

Numeric Data Types

Date and Time Data Types

Converting Between Data Types

How to Find Help on Functions

Understanding Data Type Conversion

Lab

Answers to Exercises

Enhanced SELECT Statements

Expressions

Filtering Rows

Comparison Operators

Logical Operators

Lab

Answers to Exercises

Handling NULL Data

NULL vs Blank

= vs IS NULL

ISNULL function

COALESCE

Concatenating NULL Data

Lab

Answers to Exercises

Aggregating and Grouping Data

Aggregate Functions

GROUP BY

HAVING

HAVING vs WHERE

Lab

Answers to Exercises

Joining Multiple Tables

JOINS

INNER JOIN

OUTER JOIN

CROSS JOIN

Joining Three or More Tables

Self-join

Alternate Syntax, Implicit Joins

Set Operations

Working with Multiple Set Operators

Viewing Graphical Execution Plans

Lab

Answers to Exercises

Built-in Functions Overview

Working with Functions

Mathematical Function Overview

String Function Overview

Date Time Function Overview

Nesting Functions

Lab

Answers to Exercises

Subqueries

Subqueries

Nested vs Correlated Subqueries

Subqueries in the SELECT Clause

Subqueries in the WHERE Clause

EXISTS

Subqueries in FROM Clause

Alternatives to Subqueries

Lab

Answers to Exercises

Final Lab

Final Lab Goals

Final Lab Resources

Prerequisites

General familiarity with database concepts. Working knowledge of Microsoft SQL Server or Microsoft Office applications is beneficial.

Course Schedule

Date	Time	Price	Options
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FAQ

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