

# Advanced SQL Programming (TTSQL005)

**Price:** 1895

**Duration:** 2 days

**Delivery Methods:** Virtual

## Overview

This **Advanced SQL Programming** course is designed to strengthen your expertise in managing and analyzing relational databases. You will begin with a focus on relational database concepts, including the Entity-Relationship Model and key modeling conventions. Understanding these fundamentals will prepare you for applying more complex techniques in real-world scenarios, using practical examples from the tables provided throughout the course.

**From there**, the course will explore essential SQL functions for grouping and aggregating data, such as the MIN and MAX functions. You'll learn how to use the GROUP BY and HAVING clauses effectively, work with nested functions, and handle null values in your queries. The course also covers various join types, allowing you to retrieve data from multiple tables, manage ambiguous column names, and create efficient queries with inner, outer, and cross joins.

**In the final sections**, the focus shifts to more advanced SQL topics like subqueries and set operators, as well as data manipulation and table management techniques. You'll gain hands-on experience executing subqueries, using set operators like UNION and MINUS, and managing data through DML and DDL statements. By the end, you will be fully prepared to implement advanced SQL solutions, manage database objects, and perform complex data manipulation tasks with confidence.

## Objectives

- Understand the relational database model and apply entity-relationship modeling conventions
- Utilize group functions to aggregate data, handle null values, and nest functions
- Implement advanced queries with joins, including natural, outer, and cross joins

- Execute subqueries, including single-row, multiple-row, and multiple-column subqueries
- Use set operators like UNION, INTERSECT, and MINUS to combine queries
- Perform DML operations like inserting, updating, and deleting rows, with real-world applications
- Understand DDL statements for creating and managing database schema objects
- Implement and enforce constraints such as NOT NULL, PRIMARY KEY, and FOREIGN KEY

### **Audience**

This intermediate-to-advanced course is ideal for SQL developers, database professionals, data analysts, and IT professionals who work with databases and seek to advance their skills in complex data manipulation, analysis, and management.

### **Pre-Reqs**

To ensure a smooth learning experience and maximize the benefits of attending this course, you should have the following prerequisite skills:

- Basic SQL Programming experience is required. This course is not intended for beginners.

**Take Before:** Students should have incoming practical skills aligned with those in the course(s) below, or should have attended the following course(s) as a pre-requisite:

Introduction to SQL Programming Basics

Introduction to Writing SQL Queries

### **Course Schedule**

<b>Date</b>	<b>Time</b>	<b>Price</b>	<b>Options</b>
<b>10/01/2026</b>	<b>09:00 AM - 05:00 PM CT</b>	<b>1,895.00</b>	<a href="#"><u>Buy Now</u></a> <a href="#"><u>Enroll</u></a>

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## **FAQ**

### **What if I have to reschedule my class due to conflict?**

Ten (10) business days' notice is required to reschedule a class with no additional fees. Notify TOPTALENT LEARNING as soon as possible at 469-721-6100 or by written notification to [info@toptalentlearning.com](mailto:info@toptalentlearning.com) to avoid rescheduling penalties.

### **How do I enroll for this class?**

Please contact our team at 469-721-6100; we will gladly guide you through the online purchasing process.

### **What happens once I purchase a class?**

You will receive a receipt and an enrollment confirmation sent to the email you submitted at purchase. Your enrollment email will have instructions on how to access the class. Any additional questions our team is here to support you. Please call us at 469-721-6100.

### **What is your late policy?**

If a student is 15 minutes late, they risk losing their seat to a standby student. If a student is 30 minutes late or more, they will need to reschedule. A no-show fee will apply. Retakes are enrolled on a stand-by basis. The student must supply previously issued courseware. Additional fees may apply.

### **What happens when I finish my class?**

You will receive a 'Certificate of Completion' once you complete the class. If you purchased an exam voucher for the class, a team member from TOPTALENT LEARNING will reach out to discuss your readiness for the voucher and make arrangements to send it.