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# SQL Advanced for SQL Server

**Duration: 2 Days**

## Overview:

Aspect Training's two-day course provides students with product knowledge and skills needed to implement advanced T-SQL strategies on Microsoft SQL Server 2005/2008. The course focuses on teaching individuals how to use additional Transact SQL Server features and tools related to developing and querying a database.

After completing this course, students will be able to:

- Write and execute Transact-SQL scripts utilizing procedural language statements .
- Turn relational data into well-formed XML. Shred XML data into a relational tables.
- Search Full-Text Indexes using the different Full-Text search functions.
- Add, Edit and Update records in the database
- Design and Create Views.
- Design and Create Stored Procedures in both Transact-SQL and .NET CLR
- Design and Create User-Defined Functions in both TransactSQL and .NET CLR.
- Use query optimization techniques and read query execution plans

## Prerequisites:

Before attending this course, students must have:

- Basic to Intermediate knowledge of the Microsoft SQL Server database management system and its core functionality
- Can write SQL SELECT statements using Joins, Subqueries and Grouping.
- Working knowledge of relational databases

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## **Course Topics:**

### **Inserting, Updating and Deleting Records with SQL Server**

INSERT  
UPDATE  
DELETE

### **Creating and Modifying Tables with SQL Server**

Creating Tables  
Datatypes  
Altering Tables  
Adding a Column  
Dropping a Column  
Renaming Tables  
Dropping Tables

### **Views and Stored Procedures in SQL Server**

Creating Views  
Dropping Views  
Creating Stored Procedures  
Designing a stored procedure  
Specifying input parameters  
Returning a recordset  
Returning output parameters  
Testing stored procedures

### **Getting Started with Databases and Transact-SQL in SQL Server 2005/2008**

Overview of SQL Server 2005/2008

Overview of SQL Server Databases  
Overview and Syntax Elements of T-SQL  
Working with T-SQL Scripts  
Using T-SQL Querying Tools

### **Querying Metadata, XML, and Full-Text Indexes**

Querying Metadata Overview of XML  
Querying XML Data  
Overview of Full-Text Indexes  
Querying Full-Text Indexes

### **Creating Using Programming Objects for Data Retrieval**

Overview of Views  
Overview of User-Defined Functions  
Overview of Stored Procedures  
Overview of Triggers  
Overview of SQL CLR Writing Distributed Queries

### **Using Advanced Techniques**

Considerations for Querying Complex Data  
Querying Complex Table Structures  
Writing Efficient Queries  
Using Different Techniques for Complex Queries  
Maintaining Query Files