

Advanced T-SQL Querying, Programming, and Tuning for SQL Server 2005, 2008, and 2012

May 13-17, 2013 • 9:00 AM – 5:00 PM 1000 Abernathy Rd. NE, Bldg. 400, Suite 194 • Atlanta, GA 30328



COURSE DESCRIPTION

SQL Server 2012 is finally here! Prepare for what's just around your professional corner and tune your own T-SQL querying and tuning skills with world-renowned author and trainer Itzik Ben-Gan and his updated powerhouse course Advanced T-SQL Querying, Programming, and Tuning for SQL Server 2005, 2008, and 2012.

During this hands-on course, students will learn logical query processing, window ranking and offset functions, programmable objects, working with data and time, missing and existing values (gaps and island), and so much more.

Isn't it about time you mastered the ins and outs of T-SQL? Learn how to efficiently and effectively implement T-SQL this five-day, intensive course with SQL Server MVP and SolidQ co-founder Itzik Ben-Gan.

Lunch, snacks/coffee, and courseware booklets are included.

WHO SHOULD ATTEND?

SQL Server professionals interested in knowing how to bring their queries to the next level will benefit from this course. Material will focus on advanced T-SQL techniques intended to promote better query creation and tuning, data maintenance, and developing efficient user-defined functions and stored procedures. It is recommended that attendees are SQL Server DBAs or developers with at least one year of T-SQL querying and programming experience.



Instructor: Itzik Ben-Gan

Internationally renowned trainer Itzik Ben-Gan is the author of numerous SQL Server books, including *Microsoft SQL Server 2012 T-SQL Fundamentals* and *Microsoft SQL Server 2012 High-Performance T-SQL Using Window Functions*.

VIEW THE FULL COURSE OUTLINE ON THE FOLLOWING PAGE

REGISTRATION

\$3995.00*

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AREA HOTELS

Embassy Suites Atlanta -Perimeter Center 1030 Crown Pointe Parkway

Courtyard Perimeter Center 6250 Peachtree Dunwoody Rd.

Comfort Suites Perimeter Center 6110 Peachtree Dunwoody Rd.

AREA RESTAURANTS

Tilted Kilt Pub & Eatery 1155-B Mt. Vernon Hwy.

Trattoria 141 9810 Medlock Bridge Rd., Suite A

Happy Sumo 1155-A Mount Vernon Hwy.



COURSE OUTLINE

Advanced T-SQL Querying, Programming, and Tuning for SQL Server 2005, 2008, and 2012

Module 01: Logical Query Processing

- Logical Query Processing Order
- Logical Query Processing Example
- Phase Details
- Set Operations

Module 02: Query Tuning

- Internals and Index Tuning
- Temporary Tables
- Sets vs. Cursors
- Query Tuning with Query Revisions

Module 03: Multi-Table Queries, Ranking, and Offset Functions

- Subqueries and Table Expressions
- Window Ranking and Offset Functions
- Joins
- Set Operators
- ► LAB 03A

Module 04: Aggregating and Pivoting Data

- Window Aggregate Functions
- Pivoting and Unpivoting Data
- Custom Aggregations
- Grouping Sets
- ► LAB 04A

Module 05: TOP, OFFSET-FETCH, APPLY

- TOP and OFFSET-FETCH
- APPLY
- ► LAB 05A

Module 06: Data Modification

- Inserting Data
- Sequences
- Deleting Data
- Updating Data
- Merging Data
- The OUTPUT Clause
- ► LAB 06A

Module 07: Working with Date and Time

- Date and Time Datatypes
- Data and Time Functions
- Data and Time Challenges
- Data and Time Querying Problems
- ► LAB 07A

Module 08: Programmable Objects

- Dynamic SQL
- Views and Inline Table Functions
- User Defined Functions
- Stored Procedures
- Triggers
- Transactions and Concurrency
- Exception Handling
- ► LAB 08A

Module 09: Graphs, Trees and Hierarchies

- Graphs, Described
- Materialized Paths
 - o Custom
 - Using the HIERARCHYID datatype
- Nested Sets
 - Nested Iterations Loops
 - o Recursive Queries
- ► LAB 09A