

# SQL Saturday #203 Pre-Seminar: No More Guessing! With Adam Machanic

April 5, 2013 • 9:00 AM – 4:30 PM  
1 Cambridge Center • Cambridge, MA 02142



## COURSE DESCRIPTION

Figuring out performance problems can sometimes feel like fumbling your way through a dark room. Maybe you'll get lucky and find the right solution—or maybe you'll stub your toe. Either way, it's a slow, potentially painful process. Yet finding the root cause of most performance issues is a simple exercise, once you understand where to look and when.

In this full day seminar, a proven methodology will be illustrated through complete demonstrations that will teach you how to drill from high-level problem detection all the way to a specific spot in a query plan or deeper—pinpointing the exact problem and helping you to quickly solve it. Attend this seminar to take full control of your databases—and never again stumble blindly through the dimly lit world of performance troubleshooting.

## WHO SHOULD ATTEND?

This seminar is intended for database professionals, including both DBAs and developers, who are interested in learning how to attain better SQL Server performance. At least two years of experience is recommended.



### Instructor: Adam Machanic

Adam Machanic is a Boston-based database consultant, writer, and speaker, as well as the founder of Data Education. Adam has contributed to several books on SQL Server, including SQL Server 2008 Internals (Microsoft Press, 2009) and Expert SQL Server 2005 Development (Apress, 2007).

## REGISTRATION

**\$175.00\***

### To Register:

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ON THE FOLLOWING PAGE**



## COURSE OUTLINE

### SQL Saturday #203 Pre-Seminar: No More Guessing! Enlightened Performance Troubleshooting

#### Module 1: Baseline Methodology

- ▶ What is a baseline, and why should you care?
- ▶ How do you create meaningful benchmarks?
- ▶ How should you collect baseline data?
- ▶ What kinds of testing should be done?

#### Module 2: Performance Counters

- ▶ Which counters, specifically, should you look at?
- ▶ What, exactly, do all of these counters actually indicate?
- ▶ How should you analyze counter data?
- ▶ How should you not analyze counter data?

#### Module 3: Waits and Queues

- ▶ What is a wait? What is a queue? Why should you care?
- ▶ How do you collect the waits data that SQL Server exposes?
- ▶ How do you baseline wait stat information?
- ▶ What are the most important wait stats to pay attention to, and what do they actually indicate?

#### Module 4: Real-Time Activity DMVs

- ▶ How do you get more pointed and in-depth information about what's happening in your SQL Server instance?
- ▶ Why are there so many DMVs? Which ones are actually important to understand?
- ▶ How do you baseline some of the data from the DMVs?
- ▶ What information will help you solve real problems, in your real SQL Server instances, when those problems are actually occurring?

#### Module 5: Query Plan Analysis

- ▶ What are the top 5 things that you can quickly look for to identify problems with query plans?
- ▶ How can you understand when and why plan regressions occur?