Case Study
Software and Internet Business

SQLMax

Time and cost saved and efficiency improved

Service Type: Advanced SQL Training | Performance Optimization and System Monitoring & Maintenance

Duration: 50 Hours

Summary: A training period including 30 hours over performance optimization and 20 hours over system monitoring and maintenance was requested by a software company. The training topics covered and side effects studied.

Requirements

A software company was an owner of a dispatching web portal with ~6,000 requests per second written by ASP.NET and MS SQL Server.
Although their technical team was good in SQL Server, they

hired us to have on-site training period including 30 hours over tuning and performance optimization and 20 hours over system monitoring and maintenance.

Approaches

We considered 15 training sessions covering these topics

Tuning and Performance Optimization (10 sessions)

- Application Data Layer Analysis
- Optimal Data Modeling
- Optimal Database Design
- Rewriting Queries (Organic Optimization)
- SQL Execution Plan Analysis
- Indexes and Statistics
- Transaction Analysis
- Query and Table Hints
- Retrieved Data Analysis

System Monitoring & Maintenance (5 sessions)

- Performance measurement
- Ultimate performance & major indicators
- 69 most important Windows performance counters
- Indicators acceptable values and thresholds
- Best monitoring tools & pros and cons
- Case study

Situations

The training duration was not that long to cover all details and we needed to review and select the most effective topics regarding the team weak areas.

Results

- Training subjects covered
- Side effects of methods explained
- Team's questions answered
- 11 challenges of their current issues as real samples analyzed and tuned

Benefits

- Time and cost saved and efficiency improved on performance optimization and system monitoring &

maintenance
- End-users experimented an more efficient website
- Great care signal from the management sent to attendees of training sessions

Database Designer & Architect

"Our previous knowledge updated and new techniques added. The training topics were very organized and deep. It increased the expertise level of our team several times more."