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SQL Immersion Dublin 2010 – 4 day deep-dive into the complex world of SQL Server

With Paul S Randal and Kimberly L Tripp

Grants are available to Software Skillnet members to attend this unique event

“I can’t express just how huge a benefit this class has been. After this week, I have a whole list of things that I have learned that I will be able to implement and make some incredible gains in my system! You cannot imagine how much time, effort and MONEY this will save. GREAT CLASS!!” – Michaelene Johnson, Senior Program Manager, Microsoft and Delegate at SQL Immersion: Dublin 2009

Training at this level is not commonly available in Ireland or indeed Europe, and it provides a unique opportunity for developers and DBAs who wish to focus on achieving excellence in SQL Server to learn directly from the experts.

Immersion Events are unique and individually planned seminars and workshops, with content specifically created by database-related industry experts. The training materials are customized to provide deep coverage enabling attendees to master the content. These RARE, small and intense events are the place to be for high quality SQL Server training.

Two of the world’s foremost authorities on SQL Server – Paul S. Randal & Kimberly L. Tripp will deliver this fantastic 4 day training course in Dublin this June.

Sponsored by Microsoft and supported by the Software Skillnet, this event will be hosted by local Microsoft Gold Partner – Prodata SQL Centre of Excellence in conjunction with SQLSkills.com.

Delegates who attend will acquire

- ✓ essential knowledge that can quickly be applied in production to improve performance, reliability, availability and scalability.
- ✓ With Paul and Kimberly’s famously interactive and down-to-earth presenting style, delegates will be soaking up knowledge as well as having fun

The Software Skillnet is supporting the event by making

grant funding available to 15 lucky people:

To see if you qualify and to book one of a limited number of places available at a special grant aided rate

contact Susan@isa-skillnet.com or
go to the Software Skillnet website
www.isa-skillnet.com

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The goal of an Immersion Event is to provide you with many ways of learning. In the course of an intense and focused week, we'll ensure that nothing gets in your way. Our goal is to challenge you and offer you many different possible opportunities to explore and reinforce what you are learning – these are not limited solely to the classroom. We strive to enhance your learning experience through networking and mixed training formats:

- ✓ Classroom lectures with printed course materials
- ✓ Detailed and realistic demos
- ✓ Free-form individual troubleshooting

No Ordinary Training Here – Our events are intense, technical and focused. Plan on finally having the time to focus on the areas of SQL Server that you have always wanted to explore, and bringing back detailed knowledge to enhance your company's deployment – make it more reliable, more secure, more scalable and easier to support. Our SQL Server content is always current and relevant for the latest version, right to the latest Service Pack

Course Agenda

Day 1: SQL Internals

On-disk structures: how the data is stored

- ✓ Records, pages, allocation bitmaps

Index internals: how the data is organized

- ✓ Logging and recovery: how the data is protected.
- ✓ What is logging?
- ✓ How recovery works
- ✓ How the transaction log is structured
- ✓ Recovery models

Day 2: Designing for Performance

Choosing the RIGHT data type

- ✓ Understanding data types
- ✓ Character data, overflow and LOB
- ✓ LOB considerations
- ✓ Date and time data types
- ✓ Heterogeneous data types
- ✓ Sparse columns
- ✓ Application inconsistencies in types

Table and index partitioning strategies

- ✓ Concepts / motivating factors in partitioning
- ✓ SQL Server 2000+ partitioned views
- ✓ SQL Server 2005+ partitioned views
- ✓ Partitioning design techniques combined
- ✓ Partitioned and non-partitioned indexes
- ✓ Implementing the sliding window scenario

Day 3: Indexing for Performance

Data access

- ✓ Data access patterns
- ✓ Covering
- ✓ Using INCLUDE (SQL Server 2005+)
- ✓ Using filters (SQL Server 2008+)

Indexing strategies

- ✓ Indexing for AND
- ✓ Indexing for OR
- ✓ Indexing for joins
- ✓ Indexing for aggregates
- ✓ Indexing views (overview, detailed if time permits)

Day 4: Essential Database Maintenance

- ✓ Data & log file provisioning & management
 - Database layout considerations
 - Growing & Shrinking
 - Instant Initialization
- ✓ Tempdb
- ✓ Index & Statistics maintenance
- ✓ Using backup and restore
- ✓ Consistency checking

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