

# Peace of Mind: Making DBCC CHECKDB Go Faster

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Along with backups, consistency checks are arguably the two most important tasks that DBAs need to perform regularly. Our databases are getting bigger every day, and CHECKDB run times, along with its performance impact to Production systems, keep increasing. In this session we discuss how to improve your system so that you can reduce the time that it takes to run CHECKDB or the individual DBCC CHECK\* commands. We will cover topics like Transaction log and VLF management, tempdb configuration, trace flags, Resource Governor, and many more. In one of many the demos we will explore a real life example where SurveyMonkey's consistency checks were taken from 7 days down to 6 hours.

**Session Level: 2**

**Room: 2003**

**Session: 1**

**Time: 8:30 AM**

**About the Speaker:**

**Name:** Argenis Fernandez

[http://www.sqlblog.com/blogs/argenis\\_fernandez/](http://www.sqlblog.com/blogs/argenis_fernandez/)

Argenis Fernandez is a Senior Database Engineer for SurveyMonkey based in Redmond, WA. He has worked with SQL Server for over 15 years and enjoys large SQL Server farms, high-end OLTP databases, performance troubleshooting, high availability, disaster recovery, best practices, and PowerShell scripting. Prior to SurveyMonkey, Argenis previously worked at Coinstar/redbox and Microsoft Consulting Services. He holds the MCM: SQL Server 2008 certification, and also founded the Security VC for PASS.

# Unblock yourself -- Optimistic concurrency in Hekaton

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SQL Server 2014's In-Memory OLTP allows truly optimistic locking and no latching! In this session, we see how rows can be inserted, deleted and updated without the need for latches or locks.

**Session Level: 3**

**Room: 2003**

**Session: 2**

**Time: 9:45 AM**

**About the Speaker:**

**Name:** Kalen Delaney

<http://www.SQLServerInternals.com>

Kalen Delaney is a SQL Server MVP who has been working with SQL Server for 25 years. She has provided performance consulting services and taught advanced courses on SQL Server to thousands of professionals and organizations. In addition to her courseware development, Kalen has been writing about SQL Server for years. She is the primary author of "Microsoft SQL Server 2008 Internals" and the "Inside SQL Server" series. Kalen is also one of the primary editors for the Red Gate "SQL Server Stairway

# Automating Execution Plan Analysis

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Many SQL Server performance issues can be solved with the information available from the DMVs, even if it is collected only after the problem occurred. But management might ask why something that was not an issue yesterday became an issue today i.e., who is to blame? On modern server systems with many powerful processors cores and massive memory, problems may be infrequent, but they do still occur. And so we may have neglected to collect and archive data on a routine basis. It is equally important to collect sufficient information to fully diagnose and a resolve a problem. Too many (all?) third party tools seem to stop after identifying a problem on the presumption that the the DBA's responsibility ends with passing this information to someone else. To this end, I have automated the collection and partial analysis of index usage, query execution statistics and executions plans in my own tool ExecStats (<http://www.qdpma.com/ExecStats/SQLExecStats.html>)

**Session Level: 3**

**Room: 2003**

**Session: 3**

**Time: 11:00 AM**

**About the Speaker:**

**Name:** Joe Chang

[http://sqlblog.com/blogs/joe\\_chang/](http://sqlblog.com/blogs/joe_chang/)

Joe has been working with SQL Server since version 4.2 and has been a freelance consultant for 15 years. Joe's specialties include the unusual performance characteristics peculiar to very large (NUMA) server systems and verifying storage system performance for direct-attach and SAN with HDD and SSD/NAND Flash elements. <http://www.qdpma.com/>

# Alice's SQL Server DBA Training Plan

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Congratulations on landing your first SQL Server DBA Job. Do you have a DBA Training Plan? In this presentation we will follow Alice as she steps into her first days as a new DBA. We will travel with Alice as she navigates through SQL Server Land following her DBA Training Plan. We will be watching Alice as she discovers, learns, and actually performs those typical tasks to maintain a SQL Server environment.

In this presentation Alice will discover the following and more:

- Monitoring your server
- Backup / Recovery
- Managing Databases
- Managing and Monitor Resources
- Installation considerations
- Managing Security and Auditing
- SQL Server version management

As Alice travels through SQL Server Land we will be watching Alice as she performs her on the job training exercises. These demos that Alice will be working through should provide those attending with some examples that will walk us through the actual mechanics of what Alice will need to deal with as SQL Server

**Session Level: 1**

**Room: 2003**

**Session: 4**

**Time: 1:30 PM**

**About the Speaker:**

**Name:** Greg Larsen

Greg Larsen has been working with SQL Server since version 6.5. He works for the State of Washington and does part-time consulting for DesignMind, a San Francisco-based consulting company. Greg has written over 175 articles related to SQL Server. He manages the website [www.sqlserverexamples.com](http://www.sqlserverexamples.com). Greg is also an adjunct professor at South Puget Sound Community College. He has been an MVP since 2009. In his spare time, he races and cruises on his sailboat.

# Columnstore Indexes in SQL Server 2014: Flipping the DW Faster Bit

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Columnstore indexes were introduced in SQL Server 2012 & have been wholly re-architected & optimized for SQL Server 2014. Columnstore indexes are optimized for data warehouse workloads & are a hybrid technology leveraging the best of off-disk & in-memory capabilities. Transparent to the app, columnstore has been shown to render queries at sub-second response times which heretofore took many minutes or longer. This presentation includes an overview of SQL Server 2012 & a deep dive into SQL Server 2014 columnstore indexes, including a review of the architecture, as well as the challenges, workarounds, travails, & big wins at customer sites & inside MSIT. The presentation is rich in demos, including leveraging IaaS—Columnstore in The Cloud. Learn whether columnstore can change your users' world & why columnstore may be a compelling reason to upgrade. Learn how columnstore indexes flip the DW faster bit & why columnstore manifests my motto, "Change the world or go home!"

**Session Level: 2**

**Room: 2003**

**Session: 5**

**Time: 2:45 PM**

**About the Speaker:**

**Name:** Jimmy May

Jimmy May is a Principal Architect in Microsoft IT. He's formerly a Senior Program Manager for the SQL Server Customer Advisory Team (SQL CAT) where he managed the Customer Lab which hosts the biggest, fastest, & most interesting SQL Server apps from all over the world. His last day job was Senior Database Architect for one of the world's largest SQL Server high-throughput OLTP DBs..

# SRS Report Builder for Business Intelligence

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Learn how easy it is to utilize the free download from Microsoft that allows users to create maps, charts, dashboard objects and reports against any kind of data easily without having to use Visual Studio. See how SQL Report Builder makes creating executive dashboards easy!

**Session Level: 1**

**Room: 2007**

**Session: 1**

**Time: 8:30 AM**

**About the Speaker:**

**Name:** David Eichner

<http://www.icansoftware.com>

David Eichner is a licensed CPA and is also CEO of ICAN Software Corporation, a Microsoft Dynamics partner software development and technology consulting firm. His career spans more than 20 years in various technical/managerial positions within industries as diverse as military service, engineering/construction, municipal government, consulting and certified public accounting. Additionally, he holds various national certificates in technology (MCDBA, MCSE, CNE, CITP, Dynamics CRM and ERP)

# "I've got the Power" with PowerBI and the PASS Community!

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Power Query

Power Pivot

Power Query

Power Map

Let's use public SQL Server community data to highlight capabilities of the Latest Microsoft BI Toolset

**Session Level: 1**

**Room: 2007**

**Session: 2**

**Time: 9:45 AM**

**About the Speaker:**

**Name:** Scott Stauffer

<http://ScottStauffer.ca>

Scott's an independent consultant working out of the Metro Vancouver Area of British Columbia assisting clients with data system solutions to their business challenges. He has worked in IT for over 15 years, and although Scott has managed systems with early version SQL Server on OS/2, he really started digging deep into SQL Server with the release of SQL Server 6.5. With a keen interest in continuous learning, sharing knowledge, and building community, Scott founded 2 PASS Chapters in Vancouver.

# SSIS project deployments with multiple developers

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Before SQL Server 2012, it was easy to develop several SSIS packages in a project and deploy each package as you complete it. However SQL Server 2012 introduces the project deployment model. With its awesome features comes the limitation that you can no longer deploy a single package. You must deploy the whole project every time! How do you deploy a project that contains a mix of deployed packages, ready to deploy packages and packages in development?

In this session I demonstrate common problems that arise in the package development lifecycle that affect project deployment. I will then demonstrate how to use Team Foundation Server to address these problems. I will develop the story for handling packages at various stages of development using TFS.

**Session Level: 3**

**Room: 2007**

**Session: 3**

**Time: 11:00 AM**

**About the Speaker:**

**Name:** Russ Loski

<http://www.sqlmovers.com>

Russ Loski is an independent software developer and trainer based in Dallas, TX. He has worked with SQL Server since 6.5. He also develops .Net applications. He has worked with clients such as the Dallas Cowboys, T-Mobile, Coca Cola Enterprises, and Bank of America. His specialty is developing ETL applications using SSIS, DTS and custom code. Currently he is consulting at Clarity Solution Group as an SSIS Developer.

# SSIS - manage concurrent processing using SQL Server Broker

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In this session we will do a case study for a typical situation in industries like telecommunication or healthcare. We have a stream of multiple relatively small files incoming from external system and we need to load them to SQL Server database in near-real-time. Typical examples are CDR billing files, HL7 diagnostic results or medical claims.

In this session we will cover how we can use WMI event watchers to monitor for incoming files and we examine option for managing worker threads loading the files. We will look into SQL Server broker queues, conversations between threads and activation to achieve robust solution.

**Session Level: 2**

**Room: 2007**

**Session: 4**

**Time: 1:30 PM**

**About the Speaker:**

**Name:** Piotr Palka

Piotr Palka is a Senior Business Intelligence Architect with more than fifteen years of experience in Information Technology and Telecommunication industries.

# Data Mining in the Microsoft Stack

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If you want to be a successful business intelligence analyst in today's market, you need to bring more to the table than fancy dashboards and drill through pivot tables. Now, you need sophisticated cluster analysis, decision-trees and bona fide product recommendations. In this session I'll show you where to find the free Microsoft tools that allow you to tap into these features of SQL Server Analysis Services 2008 R2 and beyond. After this session you will be able to create everything above without learning R, or stepping out of the Microsoft BI stack. You'll see how you can create fantastic data visualizations that are better than you could accomplish in the same time with years of experience in expensive statistical packages like SAS or SPSS. More importantly than the how's, you'll leave knowing the when's to use these powerful data science tools.

**Session Level: 2**

**Room: 2007**

**Session: 5**

**Time: 2:45 PM**

### About the Speaker:

**Name:** David Lydston

Over the past decade I have blended equal parts data(base) engineer, business analyst, and quantitative psychologist to solve data puzzles and provide insights into why people do what they do. I have published my work in peer-reviewed journals, presented at international conferences, and provided my professional services for cancer & HIV submissions to the FDA and marketing intelligence at Microsoft. Along the way I have taught and used: SPSS, SAS, and SSAS.

# SQL Server Waits reveal which of your statements most need tuning

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Abstract for 60 min session: In this session, I will show you how SQL Server Waits reveal which of your statements most need tuning. SQL Waits expose the specific workload generated by each statement running against your SQL Server. Methods for capturing this information will be shown, and ideas for aggregating and viewing the data over various time ranges will be discussed.

**Session Level: 1**

**Room: 2011**

**Session: 1**

**Time: 8:30 AM**

### About the Speaker:

**Name:** Trent Mera

Trent Mera has been a Database Performance Systems Consultant with Quest and Dell Software for 8 years. He specializes in showing customers how to identify and resolve performance bottlenecks in their SQL Server systems. His experience prior to Quest and Dell includes 7 years as a Database Developer and Administrator in the Real Estate, Finance and Defense Industries.

# Common TSQL Mistakes

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We are going to examine a variety of oopsies MANY developers fall prey too - some obvious, some pretty subtle and some down right sneaky! Lots of code examples with the bad AND good code presented. I GUARANTEE that you will find things here that will either prevent you from getting bad data, throwing unwanted errors or vastly improving your database application's performance. I have given this talk over FIFTY times now and it is always very highly rated!

**Session Level: 2**

**Room: 2011**

**Session: 2**

**Time: 9:45 AM**

### About the Speaker:

**Name:** Kevin Boles

Kevin is a SQL Server expert, working exclusively with the product since version 6.5. With almost 20 years of database experience, he holds many SQL Server related certifications and is also an MCT and was a SQL Server MVP from 2007 to 2012. Kevin teaches occasionally and has been a very successful independent consultant for almost 15 years. His passion is the relational engine, especially scalability, performance analysis and tuning.

# Practical Fundamentals of Query Performance Tuning

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Do you need to write some queries and not sure how to make sure they will perform well? Do you already have some poorly performing queries and don't know where to start to improve them? In this session I'll start with a little bit of optimizer basics, then show you how to avoid some query writing pitfalls that result in poor performance. I'll then show you how to read the execution plan and use other tools to help identify why a query is performing poorly, and how to fix it. I'll have several examples of how seemingly insignificant changes to a query can have drastic effect on performance.

**Session Level: 1**

**Room: 2011**

**Session: 3**

**Time: 11:00 AM**

### About the Speaker:

**Name:** Vern Rabe

Vern Rabe is an independent SQL Server consultant and contract trainer in Portland, OR. He has attained MCSE, MCITP (both Administration and Development), and MCT certifications, among others. Vern has been working with databases for over 20 years, and has worked with SQL Server since version 4.21a. He provides broad technical SQL Server skills gained from the mixture of academic and practical experiences acquired from his classroom instructing and consulting contracts.

# SQL Aggregation Queries Tips and Tricks

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In your OLTP database you often need to find category or yearly totals. Most people are familiar with getting totals by using GROUP BY with an aggregate function. What if you want get market share reports like how each product is selling as it's percentage of the total category. You can combine aggregate functions with individual records without even using GROUP BY or nesting your queries.

- Learn about aggregation queries that combine totals in the same records set as your row data.
- Learn to write aggregation queries that don't use the GROUP BY keywords
- See how aggregate table data by groups or partitions using all types of aggregate keywords

**Session Level: 2**

**Room: 2011**

**Session: 4**

**Time: 1:30 PM**

**About the Speaker:**

**Name:** Rick Morelan

<http://Joes2Pros.com>

Rick Morelan is the founder of Joes 2 Pros. Rick has previously worked at Microsoft for more than 10 year and hold over 35 Microsoft certifications. Rick has presented at SQL Saturdays in the USA, Canada, and India. Currently Ricks Joes2Pros YouTube channel has 1,800 subscribers, gets about 1000 views per day, with over 900,000 total video views since 2010.

# T-SQL - Temporary Objects

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When to use what when it comes to temp tables, table variables, CTEs and more! Developers have a lot of options but they are quite different. In this session we will go through the different types and look at the significant differences with the different options, you may think twice about what you choose!

**Session Level: 2**

**Room: 2011**

**Session: 5**

**Time: 2:45 PM**

### About the Speaker:

**Name:** Richard Baumet

Richard Baumet has been working for Phillips, Hager & North Investment Management ( now under RBC Global Asset Management Inc.) for the last 13 years as a SQL Server DBA. He has also been the local PASS (Professional Association for SQL Server) Chapter leader for the last 7 years and a member since 2002. Has presented at Local PASS Chapter, DevTeach, TechDays, Prairie Dev Con, and SQL Saturdays.

# SQL Server Upgrade Strategies

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Upgrading your SQL Servers requires planning and decision making. In this session you'll learn about the parameters for deciding the type of upgrade strategy to choose based on your system constraints. In addition, you'll learn about how to put together an upgrade checklist that includes workflow and inter-team handoffs that can guide the upgrade process.

**Session Level: 2**

**Room: 2015**

**Session: 1**

**Time: 8:30 AM**

### About the Speaker:

**Name:** Ron Talmage

Ron Talmage is a mentor and co-founder of SolidQ. He is a SQL Server MVP and current Chapter Leader of the Pacific Northwest SQL Server Users Group based in Seattle. He has been involved with SQL Server since the 90's, and has contributed to numerous SQL Server white papers and articles. He currently focuses on database administration for SQL Server-based relational databases and data warehouses.

# Inside and out of Transactional Replication

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Replication in SQL Server is great tool for scaling out your master database(s) onto other servers for reporting and remote site access with near real-time data propagation. In this session, I will cover LAN and WAN data replication tricks-of-the-trade to offload work from your master servers. Using these techniques, you can improve your performance and monitoring of your existing installations or gain knowledge and confidence to implement new solution for your company.

**Session Level: 1**

**Room: 2015**

**Session: 2**

**Time: 9:45 AM**

### **About the Speaker:**

**Name:** Chuck Lathrope

<http://www.sqlwebpedia.com>

Chuck Lathrope is a Sr. DBA/Engineer with experience supporting 150+ instances of SQL Server, many of which were using replication across datacenters in the U.S. He has spoken at many SQL Saturday events on replication and was well received. He was also a top five candidate for Exceptional DBA award from Red-Gate software and published author of a chapter on replication in TribalSQL from Redgate press.

# Backup and Recovery Basics

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As a DBA, two of your most important responsibilities are backing up data and knowing how to recover it. In this presentation, we'll talk about backup types, recovery models and recovery point objectives. I'll demonstrate backing up data and recovering it to a point in time. By the end of the session, you'll know what a copy-only backup is, when to take a tail-log backup and what it means to restore a database with no recovery.

**Session Level: 1**

**Room: 2015**

**Session: 3**

**Time: 11:00 AM**

### About the Speaker:

**Name:** Theresa Iserman

Theresa is a database administrator based in Hood River, Oregon. She has over 15 years of experience in the IT industry and has held roles in Business Intelligence, Web Application Development and Technical Project Management. Theresa is passionate about SQL Server and enjoys participating in the PASS community. When she's not experimenting with the latest SQL Server technologies, Theresa enjoys windsurfing and riding her road bike around the Columbia Gorge.

# DBA Code Reviews Done Dirt Cheap

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Do you know what code is going onto your production systems? How can you support something you haven't seen?

Whether you currently do code reviews or think it might be a good practice to start doing, this session will help you make the most of the code review process. For DBAs, we'll cover key things to look for such as looking for potential problems. For developers, this will be insight for you into how DBAs think when reviewing your code so you have a better idea what to expect.

**Session Level: 2**

**Room: 2015**

**Session: 4**

**Time: 1:30 PM**

**About the Speaker:**

**Name:** Robert Davis

<http://www.sqlsoldier.com>

Robert is a SQL Server 2008 Certified Master, an experienced DBA, evangelist, speaker, writer, trainer, and consultant. He is the Principal DBA with Outerwall, Inc. and consults part-time via SQL DBA Master. He has worked with SQL Server for more than 13 years, including recent stints as a Sr. Product Consultant and Chief SQL Server Evangelist for Idera Software, Program Manager for the SQL Server Certified Master Program at Microsoft Learning, and as a production DBA at Microsoft.

# Master Data Management - Getting Started with SQL Server MDS

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This session will provide an introduction to Master Data Management (MDM). We explore the basic concepts, types of MDM solution, and the basics for a successful MDM Implementation. With a working definition in hand, we'll discuss strategies for beginning a successful MDM pilot in your organization and look at some of the pitfalls to avoid. We'll wrap the business discussion up with some tips for selecting the right domains to solve and some tips for managing the politics of MDM.

After we've set the stage for what, how and why you need MDM, we'll take a brief look at SQL Server MDS through the Excel add-in and talk about the Architecture of MDS.

**Session Level: 1**

**Room: 2015**

**Session: 5**

**Time: 2:45 PM**

## About the Speaker:

**Name:** John McAllister

<http://www.profisee.com>

John McAllister co-founded Stratature, an Independent MDM software vendor, in 2001. Following Microsoft's acquisition of Stratature in 2007 John served as Group Program Manager for MDS and oversaw the incorporation of MDM into SQL Server. John now serves as the Regional Sales Director for Profisee, Inc. which provides enterprise-class MDM Solutions built on top of Microsoft's MDS offering. John has worked with 100's of organizations around the world in all phases of MDM projects.