

Michigan Db2 Users Group

Quarterly Newsletter, December 2018

Website: www.mdug.org
Email: admin@mdug.org

DECEMBER 5TH MEETING AGENDA

- 8:15** Check In and Breakfast
- 9:00** Opening Comments
- 9:15** Roberts Session 1
- 10:30** Break
- 10:45** Roberts Session 2
- 12:00** Lunch (Provided)
- 1:00** Rasmussen Session 1
- 2:15** Break
- 2:30** Rasmussen Session 2
- 3:45** Closing Comments

Registration Contact:
reservations@mdug.org

Please Include:
*Your membership type
and the full name of all
attendees*

Registration Deadline:
November 28th

Attendee Fees:
See Page 4

The December 5th MDUG session will feature the following speakers:

Haakon Roberts (IBM)

Haakon Roberts has over 30 years' experience working with Db2 on the mainframe platform covering various aspects of systems programming, database administration, software development and support. He is a Distinguished Engineer in Db2 for z/OS development at the IBM Silicon Valley Laboratory in San Jose, California and the chief technical architect and strategist for Db2 for z/OS Utilities and Tools. He holds several patents and is a leading expert in data integrity, availability, serialization techniques and problem resolution. He is a regular speaker on these and other topics.

Haakon will be presenting the following topics:

- Online Schema and Availability Enhancements
- Db2 Utilities: The Very Latest Developments

Abstracts on page 2

Steen Rasmussen (CA Technologies)

Steen Rasmussen is a Sr. Engineering Services Architect currently instrumental in the ongoing development and support of the CA Technologies Db2 tools. In 1985, Steen started as an IMS/Db2 DBA at a major insurance company in Denmark working with all aspects of DB2-tuning, application design and implementation, education of developers, backup and recovery planning and automation of housekeeping processes Steen has been working with Db2 for z/OS since 1985 and is always looking for new opportunities in the CA Db2 solutions which can help customers manage Db2 more efficiently. Besides providing support to the teams in the field as well as internal groups at CA Technologies working with Db2, Steen is also a frequent speaker at IDUG in North America, EMEA and Australia as well as local Db2 user groups around the world.

Steen will be presenting on the following topic:

- What's New in the Temporal World of Db2
- Proactive Performance Management Using Analytics

Abstract on page 2

Presentation Abstracts

Haakon Roberts

Online Schema and Availability Enhancements

Db2 for z/OS utilities is an area of intense and continuous development delivering many significant functional, performance and availability enhancements outside of V12. This session will focus on the very latest improvements that you can take advantage of today, even in V11.

Db2 Utilities: The Very Latest Developments

You've probably heard of PBR RPN in Db2 12 and how it's now possible to store 4 petabytes of data in a single Db2 table. But the real benefit of RPN is how it improves availability and creates a foundation for future improvements in Db2. This session will explain why we delivered RPN in 12, how it works, what the benefit is and how to get there. We'll also look at other significant availability improvements delivered in V12 and after.

Steen Rasmussen

What's New in the Temporal World of Db2

The Temporal Table design was introduced in Db2 10 and there were quite a few restrictions. Some of these were lifted in Db2 11 and Db2 12 has lifted more - but the temporal design has really started to be adopted by Db2 itself, so we will cover the restrictions removed using live examples as well as a detailed walkthrough of how the Db2 engine itself is starting to offer this functionality and predictions for the future.

- Basics before news
- Include / Exclude / Include
- Referential Integrity - how does it all work
- RTS autonomics - No more need to offload RTS on a periodic basis
- Catalog prep for autonomic auditing

Proactive Performance Management Using Analytics

Understanding “the normal behavior” of the Db2 applications (static as well as dynamic SQL) can be a challenge, but using existing performance metrics and baseline these could put you in a situation where you can take action before the SLA's are violated and even save you a lot of headaches in the “war room” finger pointing.

- Is the Green Highway really green and what is it?
- Why baselining?
- Static versus dynamic baselines pros and cons
- Moving average and electric rules - what's happening with DB2
- Avoiding War Room meetings and finger pointing

Seminar Logistics

Day of the Seminar:

Seminar will be held at the Four Points by Sheraton Hotel in Novi. Onsite check in begins at 8:15 am with a continental breakfast provided and sessions will begin at 9:00 am. Continental breakfast and lunch at the conference are included and covered by your membership fees.

Presentation Handouts:

Seminar presentations will be made be available in soft copy format prior to the seminar and will be posted on the MDUG web site at www.mdug.org as they are received by the MDUG Board. Speakers will not be bringing hard copies to the seminar. Please check the web site for the presentations prior to the seminar.

Presentations for past seminars are available online at: www.mdug.org under the “Past Seminars” section.

Registration:

You can register yourself and/or your site/Company attendees by sending an email with your full name, company name, and registration count (if making reservations for more than yourself) to reservations@mdug.org. Please include the name of all attendees in the email message and the type of membership (corporate, individual, shared, or vendor) that you will be attending under. Confirmation is available upon request only. Early registration for the seminar will be taken until the end of the day on November 28th (Wednesday before the seminar). Late registrations may be taken until noon on Friday, November 30th, if seating is still available. Please respond as early as possible to guarantee yourself a spot.

MDUG Membership:

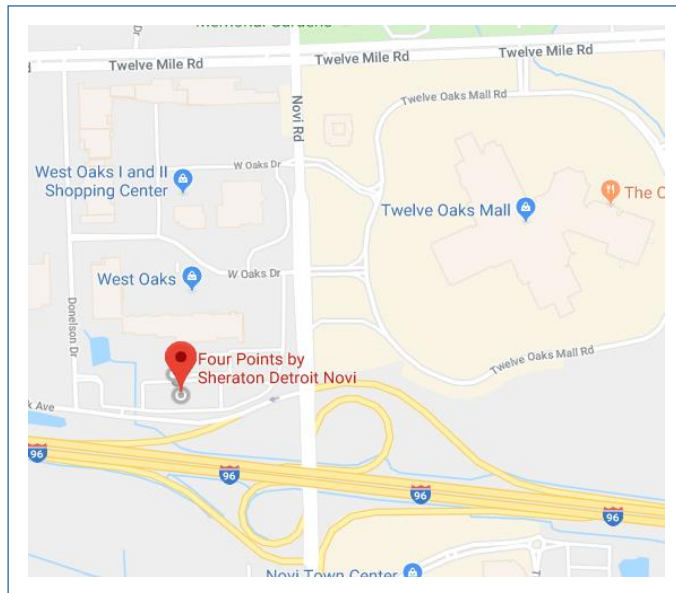
There are four types of memberships; Individual, shared, corporate, and vendor. Membership details are posted on the web site: www.mdug.org.

Memberships are annual and run from the first seminar of the year through December and allow for attendance at all seminars for the year. MDUG accepts payment directly in cash or check on site at a seminar. Checks should be made payable to Michigan Db2 User Group (MDUG). Credit cards are accepted only through PayPal. All memberships are contingent on payment of the annual membership fee.

Membership forms along with membership details and instructions on paying via Paypal can be downloaded from the MDUG web site www.mdug.org by clicking on the Membership and Fees. Inquiries on the status of corporate/company memberships should be sent to the MDUG email box at finances@mdug.org.

2019 Session Dates:

We are working on our 2019 schedule, stay tuned!



Four Points by Sheraton 27000 S. Karevich Drive,
Novi, MI 48377

2018 Membership Fees

- Individual - \$140*
- Shared - \$180*
- Corporate - \$540*
- Vendor - \$540*
- Meeting - \$50*

September 2018 Session Feedback

<i>Presenter/Presentation Topic</i>	<i>Topic Value</i>	<i>Session Content</i>	<i>Speaker</i>	<i>Material Covered</i>	<i>Handouts</i>	<i>Visuals</i>
Dave Buelke – Best Performance and Design Practices for Analytic Applications	3.91	3.91	3.73	3.91	4.00	3.82
Dave Buelke – Db2 Security Best Practices	4.18	3.64	3.45	3.73	4.20	3.73
John Casey – Data Server Manager on Db2 for z/OS	4.55	4.82	4.91	4.82	4.80	4.91
John Casey – Data Virtualization Manager	4.75	4.75	4.88	4.75	4.88	4.88

Current Events

Db2 Analytics Accelerator: Trends and Directions

The Db2 Analytics Accelerator complements Db2 for z/OS to deliver a hybrid computing platform where you can directly leverage your high-value, sensitive data that originates on IBM Z. This winning combination transforms the mainframe into a highly-efficient hybrid transaction and analytic processing environment, enabling real-time analytics on transactional data--as it is generated--while driving out cost and complexity.

Join this educational webinar with Daniel Martin from the Db2 Analytics Accelerator development team, as he discusses the latest enhancements to both Version 5.1 and Version 7.1 of the Accelerator. Hear about the Db2 Analytics Accelerator roadmap and the exciting future plans for this product.

Presenter Daniel Martin

Daniel Martin is a senior software engineer and architect in the IBM Db2 Analytics Accelerator development team, located in IBM's Research & Development Lab in Boeblingen, Germany.

He started working on the Accelerator over 7 years ago, at a time when it was named "Smart Analytics Optimizer". He has spoken about it at several conferences and customer briefings, and occasionally blogs about it at <https://idaadev.wordpress.com/>.

[Register here to replay this June 26th webcast](#)

September 2018 Topic Feedback

<i>Votes</i>	<i>Requested Topics</i>
7	DB2 Performance and Tuning
6	DB2 Application Tuning
5	Using Stored Procedures
4	DB2 Experiences
4	DB2 Using CICS/IMS
4	Supporting DB2
4	Integrating Cloud and DB2 Data
3	DB2 Programming/Application Development
3	Db2 Utilities
3	DB2 Web Connectivity/Usage
3	Connecting to DB2 Data from Cloud Applications
2	DB2 Disaster Recovery
2	DB2 Performance Tools
2	New DB2 Releases
1	Data Warehousing
1	DB2 Interconnectivity
1	Db2 Supporting Software
1	Complex SQL - Pivot,Unpivot
1	Database As A Service Support

IBM Db2 AI for z/OS - Boost IBM Db2 application performance with machine learning

IBM recently announced Db2 AI for z/OS that empowers the optimizer in Db2 for z/OS to determine the best-performing query access paths, based on your workload characteristics. This new offering can help:

Improve Db2 SQL access path selection

Enhance Db2 application performance

Enable rapid model learning specific to the data and configuration per Db2 subsystem

Leveraging machine learning technology, Db2 AI for z/OS collects data from the optimizer and execution history for Db2 for z/OS that are derived from workloads in your unique operating environment. It then finds patterns from this data and learns the optimal access paths for queries entering Db2 for z/OS as part of the model training process. Models trained and deployed from Db2 AI for z/OS are managed by the security-rich infrastructure in Machine Learning for z/OS, which gives defined users a window into the models' performance metrics.

[Register and replay this Tuesday, October 2nd webcast](#)

Db2 12 for z/OS: Improving Availability and Resilience

IBM Db2 for z/OS clients need the highest possibility availability to be able to meet their own business requirements and to satisfy the expectations of their customers. This Webcast explores the improvements introduced in Db2 12 for z/OS, to strengthen its position as the premier high-availability relational database. There are two areas of focus, the first being further enhancements to on-line schema migration, making it easier to change database design and attributes non-disruptively. The three topics here are: online ALTER to increase the maximum page-set size (DSSIZE); increasing the partition size limit to 1 TB and massively increasing maximum table size; and the ability to insert a partition anywhere in the partitioning scheme. The second area of focus is removing a potential single point of failure, by the introduction of asynchronous Coupling Facility lock duplexing.

[Click here to Register and replay this September 11th 2018 webcast](#)

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