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Michigan DB2 Users Group (MDUG)
Quarterly Newsletter

September 2017

"Keeping members up to date on changes in the Db2 Environment"

MDUG seminars primarily feature topics about Db2 for z/OS. These topics are intended for technical staff, including application developers, system administrators, and database administrators. Occasionally, non-Db2 topics are included to provide members awareness of key issues and developments in information management. Members can submit suggestions for future topics on the meeting evaluation, or by email to admin@mdug.org.

The upcoming all day seminar on Wednesday September 13ᵗʰ at the Crowne Plaza in Novi, MI features four sessions from two outstanding speakers. Our first presenter of the day will be David Baldon of BMC. David's first session will be on Inline LOBs and how to use them to maximize storage savings and processing efficiency. In his second presentation of the morning David will discuss Db2 transaction logs and consider some unique ways you can take advantage of the data these provide. Our second speaker of the day will be Kai Stroh of UBS Hainer. Kai will be presenting on data movement. In his first session Kai will detail how to automate large scale Db2 copy processes. Copying one table is a simple task but copying thousands requires detailed planning and automation. We will see what it takes in Kai's first session. After lunch kai will be presenting a second topic about cross platform data movement. When different types of file systems with different encoding schemes are involved, cross platform movement can get tricky. Learn how to navigate the pitfalls in Kai's second session.

TO REGISTER: Send an email to **reservations@mdug.org** with your name, your membership type (Corp, Vendor or Ind.), and if appropriate the number and name of additional attendees. **Reservation deadline is on Wednesday September 6ˢᵗ, but if there are still seats available reservations will be taken up until noon on Friday September 8ᵗʰ.**

ATTENDANCE FEES: For MDUG members, the cost for attendance at the seminar is covered by the yearly membership fee, so make sure to renew before or at the seminar. For Non-members the cost for 2017 is $40 at the seminar, payment in either cash or check. Credit cards are not accepted at the door. Please see the Membership section below for payment options. All membership fees for the year are payable before or at the first seminar.

FUTURE TRAINING: Details can be found under the **News for Members** section about the potential for future training.

CURRENT EVENTS: Check out the **Current Events** section for a list of recent Db2 and z/OS related sessions and events.

MOST REQUESTED TOPICS: "Db2 Performance and Tuning" was the most requested future topic based on the 24 evaluation results submitted from the May 2017 seminar.

SOCIAL MEDIA: Keep up with the latest from the local Db2 community by liking the "Michigan Db2 User Group" Facebook page. Watch for us on LinkedIn in the near future and as always on our web site at www.mdug.org.

CROWNE PLAZA CONSTRUCTION\NAME CHANGE: We will again be holding our sessions at the Crowne Plaza in Novi, however the site is under construction and the name is at this time being called "Novi Oaks". We are unaware how much of the signage has been switched so if you've been to our meetings before, please go to the normal location and just be aware that there might be mixed signage and that this is in fact the same site as usual.

MDUG is an affiliate of IDUG (international Db2 User Group), and is chartered under the State of Michigan. It promotes the awareness of Db2 in solving business problems by providing a non-profit forum for presenting new functionality, features, ideas, and usage of Db2. This forum is used for communications among Db2 users in the Southeastern Michigan area, as well as bringing together others throughout the state.

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September 13th - Seminar Agenda

8:15 am – 9:00 am   **Check In / Continental Breakfast**

9:00 am – 10:00 am   **"Inline LOBs – Dare We Go There?"**
                           Speaker: David Baldon (BMC)

10:00 am – 10:15 am   **Break**

10:15 am – 11:00 am   **"What's Log Got To Do, Got To Do With It?"**
                           Speaker: David Baldon (BMC)

11:00 am – 11:15 am   **Break**

11:15 am – 12:15 pm   **"Set up a Copy Process in Less Time Than it Takes to Make a Cup of Coffee"**
                           Speaker: Kai Stroh (UBS Hainer)

12:15 pm – 1:15 pm   **Lunch – included as part of the seminar**

1:15 pm – 2:15 pm   **"Navigating the Pitfalls of Cross Platform Copying"**
                           Speaker: Kai Stroh (UBS Hainer)

2:15 pm – 2:45 pm   **"MDUG Update: 2018 Plans and Financial Report"**

<u>**Presentation Handouts:**</u>
Seminar presentations will be made be available in soft copy format, as available, prior to the seminar and will be posted on the MDUG web site as they are made available. If posted, the presentations **should** be downloaded and printed from the MDUG web site www.mdug.org and brought to the seminar as these speakers will not be bringing hard copies to the seminar. Please check the web site for the presentations prior to the seminar.

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Presentation Abstracts

Presentation #1:

"Inline LOBs – Dare We Go There?"
  Speaker: David Baldon (BMC)

A Db2 large object (LOB) column definition initially stored a pointer in the base table to the value in an auxiliary table space. An inline LOB allows the table designer to store a portion of a LOB column in the base table space. For LOBs that are less than or equal to the size of the specified inline length, Db2 stores the complete LOB data in the base table space. This presentation gives an overview of using INLINE LOBs including how they work, how to create them, and how to configure them to maximize DASD and processing savings.

Presentation #2:

"What's Log Got To Do, Got To Do With It?"
Speaker: David Baldon (BMC)

David will also present is a primer related the Db2 log and how to make use of it in ways you may not have considered. David will be giving this presentation at IDUG's tech conference in Lisbon this October, so you will be privy to the latest research in this area.

Presentation #3:

"Set Up a Copy Process in Less Time Than it Takes to Make a Cup of Coffee"
Speaker: Kai Stroh (UBS Hainer)

When you get tasked with setting up a refresh process for thousands of Db2 z/OS tables you probably have a few thoughts running through your head: How long does it take to create all the required jobs? How long for all the control cards? Do all the target tables exist, or are there any new tables in production? Have tables been changed? Better double check if the tables have grown or if Db2 has added more VSAMs so that you don't run out of space halfway through like last time. Don't forget catalog statistics and RTS. And those identity columns and sequences -they're always trouble. What seems like little bits and pieces at first can really stretch your staff thin, which is why automation is key if you want to save time and energy. This presentation discusses advantages and disadvantages of different utilities that copy Db2 data, but the main focus is automating all the side tasks that DBAs usually need to do in addition to copying the data itself.

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Presentation #4:

"Navigating the pitfalls of cross platform copying"
Speaker: Kai Stroh (UBS Hainer)

Copying tables between a mainframe and a distributed system using an ETL process is not as straightforward as it may seem. Data sets on z/OS and files on a Unix or Windows platform differ considerably with regard to both their file system level attributes and their internal structure and encoding. This presentation explains how to bridge these gaps and exchange data, including LOB and XML data, between both worlds.

Speaker Biographies

David Baldon

David Baldon is a Solution Architect for Db2 backup and recovery at BMC. He has been writing applications for the IBM mainframe since 1985.

Kai Stroh

Kai Stroh earned a Computer Science degree from the University of Darmstadt and is a mainframe software developer specializing in Db2 utilities for z/OS. He designs and builds innovative Db2 applications and utilities often working onsite or remotely with UBS' international clients. He easily navigates his way around Db2 dumps and knows how to move data and definitions across Db2 versions, and this includes the unique in-house Db2 subsystems which each have their own little technical adaptations.

Seminar Logistics:
Seminar onsite check in begins at 8:15 am and the seminar will begin at 9:00am. The cost of the seminar is covered by the yearly membership fee, if you are a member, and includes a continental breakfast and lunch. The 2017 cost for non-members is $40 and covers attendance at the seminar, the continental breakfast and lunch.

Registrations:

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 from more then 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 September 6th (Wednesday before the seminar). Late registrations may be taken until noon on Friday, September 8th, if seating is still available.   Respond early to guarantee yourself a spot.

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News for Members

1. June 2017 Topic Feedback

24 evaluations were returned from the June 2017 sessions. The MDUG board uses this information to assist in planning future seminars.

# of Votes	Potential Topics
6	Db2 Performance and Tuning
5	Db2 Performance Tools
3	Connecting to Db2 Data from Cloud Applications
3	Integrating Cloud and Db2 Data
3	Db2 Application Tuning
3	New Db2 Releases
3	Db2 Utilities
3	Using Stored Procedures
2	Data Warehousing
2	Db2 Web Connectivity/Usage
2	Db2 Interconnectivity
2	Db2 Programming/Application Development
2	Supporting Db2
2	Db2 Experiences
1	Db2 Supporting Software
1	Db2 Using CICS/IMS
0	Db2 Disaster Recovery

2. June 2017 Speaker Feedback

Rating based on a scale of 1 – 5 with 5 as the highest rating.

Presenter/Presentation Topic	Topic Value	Session Content	Speaker	Material Covered	Handouts	Visuals
Mark Rader - Db2 z/OS Concurrent Delivery Model	4.91	5.00	4.91	4.91	4.64	4.64
Mark Rader - Db2 z/OS v12 Migration Considerations	4.64	4.82	5.00	4.73	4.18	4.55
Kevin McGuinn - Transforming Mainframes for Digital Business"	4.27	4.36	4.64	4.27	4.10	4.09
Nigel Slinger - The Machine Learning Advantage – Db2 z/OS and Machine Learning	4.33	4.22	4.00	4.11	3.78	4.22

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3. Past Seminars

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

4. 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.

5. Membership & Attendance Fees

Fees for 2017 are posted on the MDUG web site (www.mdug.org) and outlined below.

If paying by check or cash:

Individual - $110
Shared - $180
Corporate - $400
Vendor - $470
Meeting - $40

6. Recent and Future Training

Based on interest, MDUG will consider future training in the coming year. If you're interested in attending such training or just want more information, please send an email to training@mdug.org.

Additionally if there continues to be enough interest in training in the future, MDUG will consider holding a yearly one day training class. Look for questions on future newsletters and evaluations, so you can let us know if you are interested in future training, or if upcoming training is planned.

7. <u>Current Events</u>

IDUG Live Form the Toronto Lab! Calling all data professionals. IBM just made several major announcements to reposition and rebrand Db2. There are new offerings, new capabilities and previews of entirely new Db2 powered solutions coming out. More than ever, IBM Db2 will be the foundation and core for your organization's success IDUG believes the best way for you to understand all of these announcements is to go directly to the experts themselves. That is why IDUG will be broadcasting live from the Toronto Development Lab on Wednesday September 6th. Join this live video stream to get all the latest Db2 news.

[Click here to register!](#)

Db2 Analytics Accelerator: What's New? On July 25th Daniel Martin, a Senior Software Engineer with IBM, gave an update on the latest news regarding the Db2 Analytics Accelerator. If you missed this webcast, you can still register and view it's content from start to finish at the link below.

[Click here to register and view this outstanding webcast!](#)

Utilizing Large Memory with Db2 for z/OS! On July 18th, IBM Distinguished Engineers John Campbell presented a live webcast on taking advantage of large memory to save CPU in y our Db2 for z/OS environment. If you missed the live presentation on the 18th, you can still replay the presentation on demand from start to finish by registering for the event at the link below and logging in to the event room.

[Click here to register and view this outstanding webcast!](#)

Machine Learning for z/OS Hands On Lab! IBM is now offering a hands on lab experience to let customers get a feel for Machine Learning on z/OS with no investment. In this lab you will.

- Learn how self-learning predictive behavioral models are developed, deployed, and managed
- Gain 100% complimentary, open access to preview an enterprise-grade environment for machine learning
- Get up and running in minutes with an environment provisioned for them
- Follow a Quick-Start Guide to see how machine learning models are built and managed
- Not require any experience with IBM Z or z/OS systems
- Have access to IBM and an on-line support community

[Click here to register for this one of a kind experience!](#)

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Unchain the Frame! AngelHack in collaboration with IBM launched the Unchain the Frame global virtual hackathon with $50K USD in prizes and we need your help to amplify to your internal and external networks. Developers from around the world are invited to create the next killer app using blockchain, machine learning, core banking and retail APIs as well as open source technology...all on the mainframe. No mainframe skills needed, just a willingness to think bigger!

Visit www.unchaintheframe.com for more details!