

String Manipulation and Regular Expressions with SQL – Birgitta Hauser

Today data get more and more **exchanged** between multiple platforms and interfaces, in JSON or XML or other text formats. SQL includes methods for consuming XML and JSON. But quite often the data is not in the format, so we can consume it directly. For example, the first and last name is returned as a single value separated with a comma and must be split. On the other hand, data must sometimes be prepared in a specific way, for example a numeric value must be right adjusted padded with asterisk and edited with group and decimal separators.

And finally, it is necessary to check the passed data or to search character data if they match a specific format or include a specific sequence. For example, to find all column values that consist not only of digits. Did you know, you can do this directly with SQL? SQL includes a lot of scalar functions for string manipulation including regular expressions for scanning, preparing and converting.

Learning Objectives:

Learn what scalar functions for string manipulation are available and how they can be used for concatenating, converting, splitting strings. For more complex searches learn which regular expression functions are available and how they can be used.

What You Need to Know to Successfully Upgrade to IBM i 7.4 & 7.5 - Pete Massiello

When doing an upgrade to IBM i, there is more work involved in the planning of the upgrade than in the actual upgrade itself. When you have done the planning, the actual upgrade is simple. We will cover planning tips, pre-requisites, and then post-installation requirements. Your upgrade isn't complete until this last step is done.

Learning Objectives:

What you need to check for when preparing your system for an upgrade. What PTFs that are required before the upgrade to avoid problems, and the steps you need to complete a successful upgrade.

What's New and Exciting in RPG – Scott Klement

With each new release of the IBM i operating system and with Technology Refreshes, IBM has given us some new features in RPG. This session tells you about the new and exciting features of RPG and how you might like to use each feature in your own applications.

Learning Objectives:

1. IBM's strategy for releasing new RPG features
2. The new features available recently
3. What I find exciting about them

IBM i Security: G.O.A.T or more of a donkey? – Robin Tatam

IBM i security may be legendary, but do you know that there is a very good chance that YOUR server is highly vulnerable to exploitation? Certified auditor and long-time author of the wildly popular "State of IBM i Security" study, Robin Tatam, will whirl through startling information about what we do right and where we go wrong. Along with the updated 2022 study results, this session provides useful tips in several common problem areas. Learn what steps your own organization must take to address these overlooked and dangerous security exposures—including some that are often missed by professional auditors!

Learning Objectives:

1. Learn about this famous study
2. Hear the new revelations for 2022
3. Learn specific tips for avoiding the mistakes of others

Node.js and IBM i – Mark Irish

You've heard a lot about Node.js, and know how to download packages, write interesting applications, and even connect to Db2 for i. But you are still a little hazy on how to integrate Node.js with all of the RPG, C, COBOL, and CL programs you have running on your system. This talk will focus on interacting with ILE programs from Node.js, including sending data to programs as parameters, getting results back in Node.js, and leveraging the power of Node.js to use the results in a novel way. By the end of the talk, you should have a better sense of how Node.js can interact with traditional IBM i programs and where to find answers to questions you have about Node.js and IBM i.

Learning Objectives:

1. What options are available to integrating Node.js with IBM i programs, commands, and workflows
2. How to interact with Node.js and IBM i from the same system
3. How to remotely interact with IBM i from Node.js on another system

DevOps in the Cloud – Andrew Clark

You've heard all about the advantages of moving your resources "to the Cloud", but do you have any idea what impact that has on your Development and Operations (DevOps) teams? Working in the cloud can mean a whole different DevOps pipeline, and often means that a change in your process and tooling is also required. This session will go over all aspects of moving to the Cloud, with a special focus on its impact on developers/operators and the advantages (and some disadvantages) that come with it as well.