

OSEHRA INNOVATION WEBINAR SERIES

Today's Presentation:
SQL Access to Vista

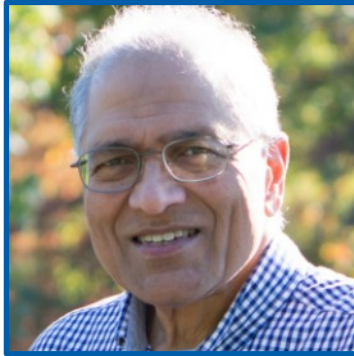


Thank you for joining. This presentation will begin shortly.

May 28, 2019

Welcome to the May Innovation Webinar

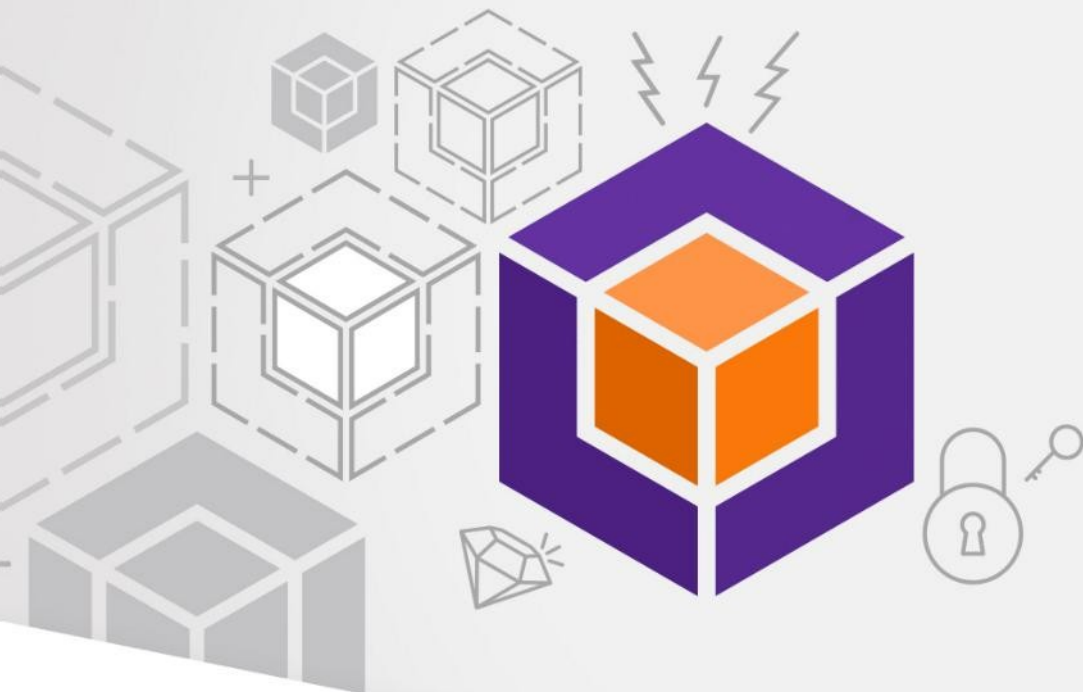
SQL Access to VistA



K.S. Bhaskar
President
YottaDB LLC



Christopher Edwards
Software Programmer
YottaDB LLC



SQL Access to VistA

K.S. Bhaskar and
Christopher Edwards

Overview

K.S. Bhaskar



- A mature, high performance, hierarchical key-value NoSQL database whose code base scales up to mission-critical applications like large real-time core-banking and electronic health records, and also scales down to run on platforms like the Raspberry Pi Zero, as well as everything in-between.
- *Rock Solid. Lightning Fast. Secure. Pick any three.*

YottaDB is a registered trademark of YottaDB LLC

Octo

- Octo is a SQL database engine that whose tables are stored in global variables

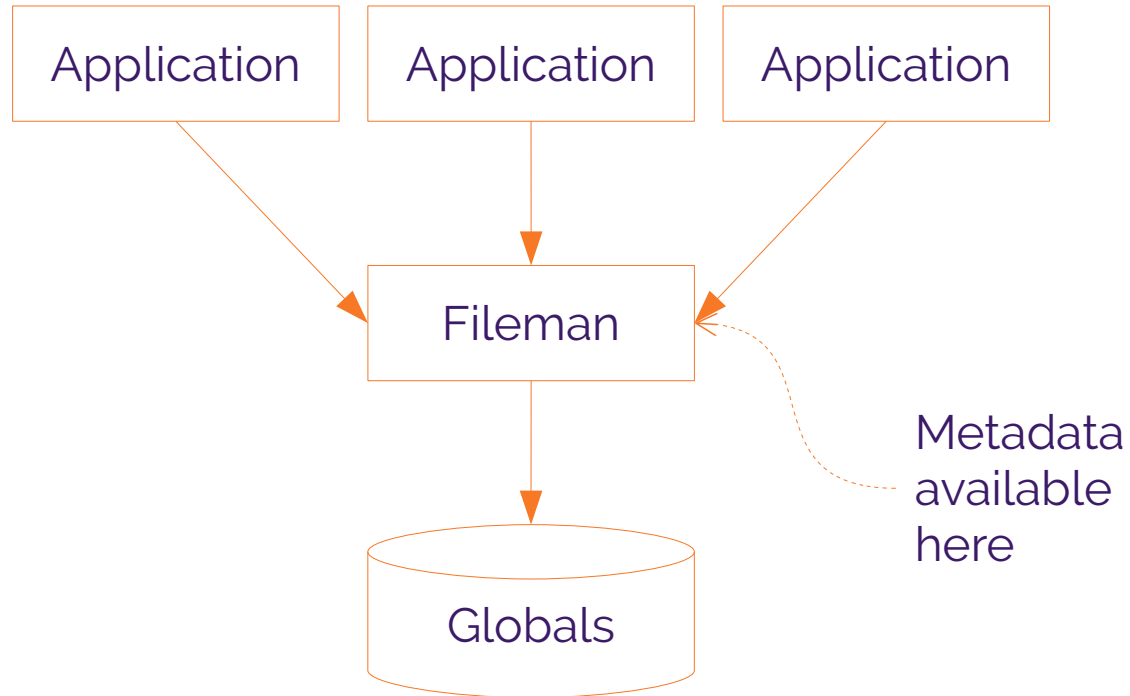
SQL Access? Why?

- VistA is a great healthcare information system
- Fileman has capable and efficient reporting tools
- But...

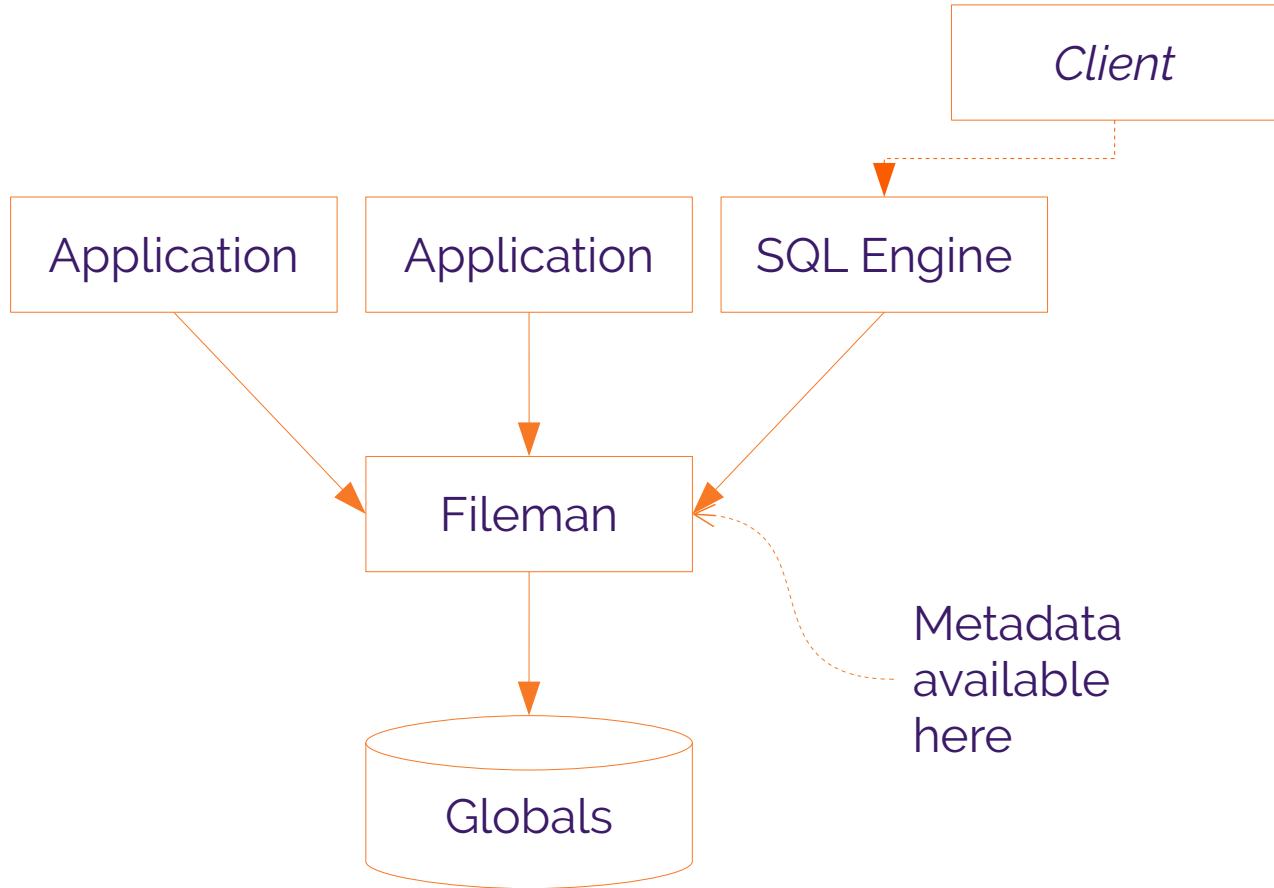
SQL Access? Why?

- VistA is a great healthcare information system
- Fileman has capable and efficient reporting tools
- But...
 - Knowledge of Fileman and roll/scroll interface
 - Business analysts know SQL and expect GUIs
 - Wealth of existing tools, many FOSS – e.g., see <https://opensource.com/business/16/6/top-business-intelligence-reporting-tools>

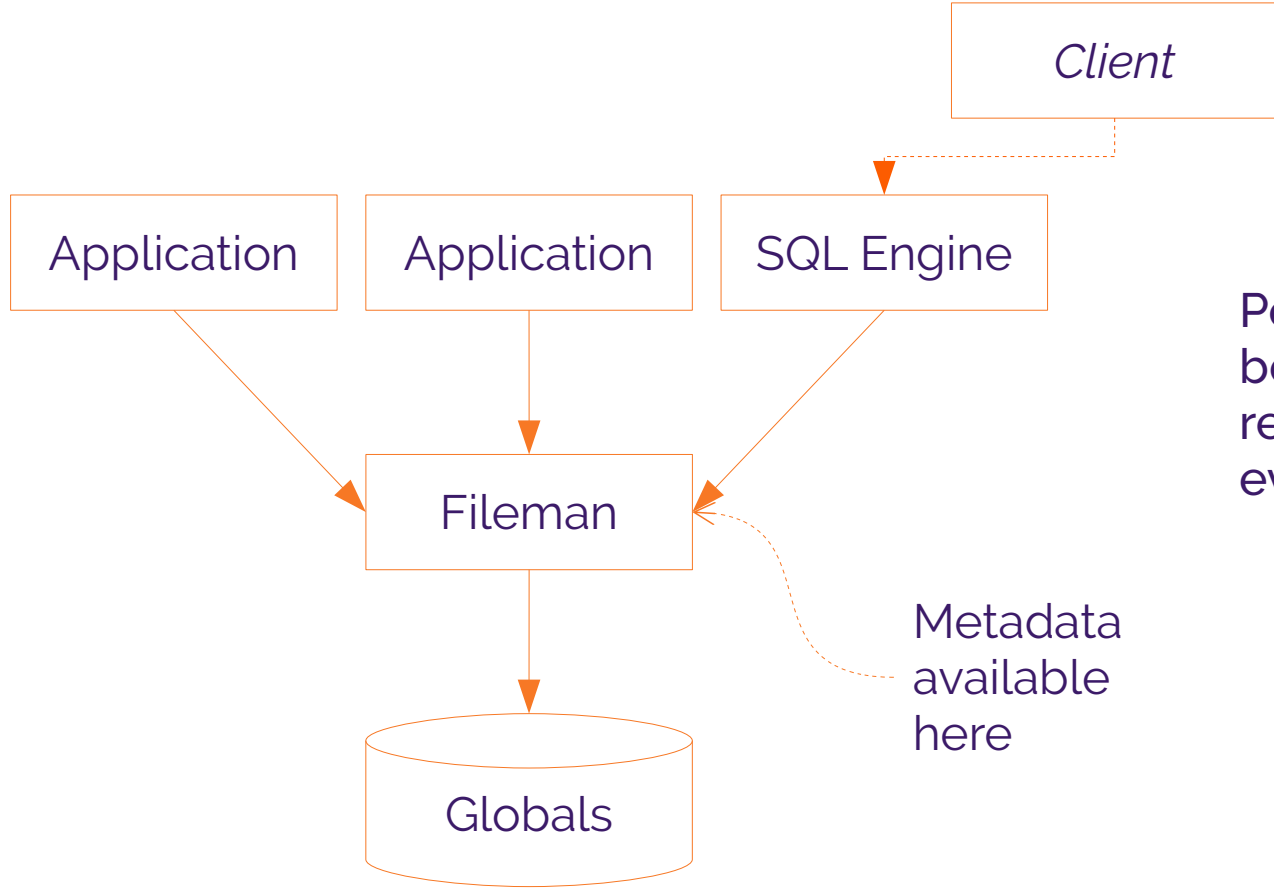
VistA Layers (Simplified)



SQL Access (Conceptual)



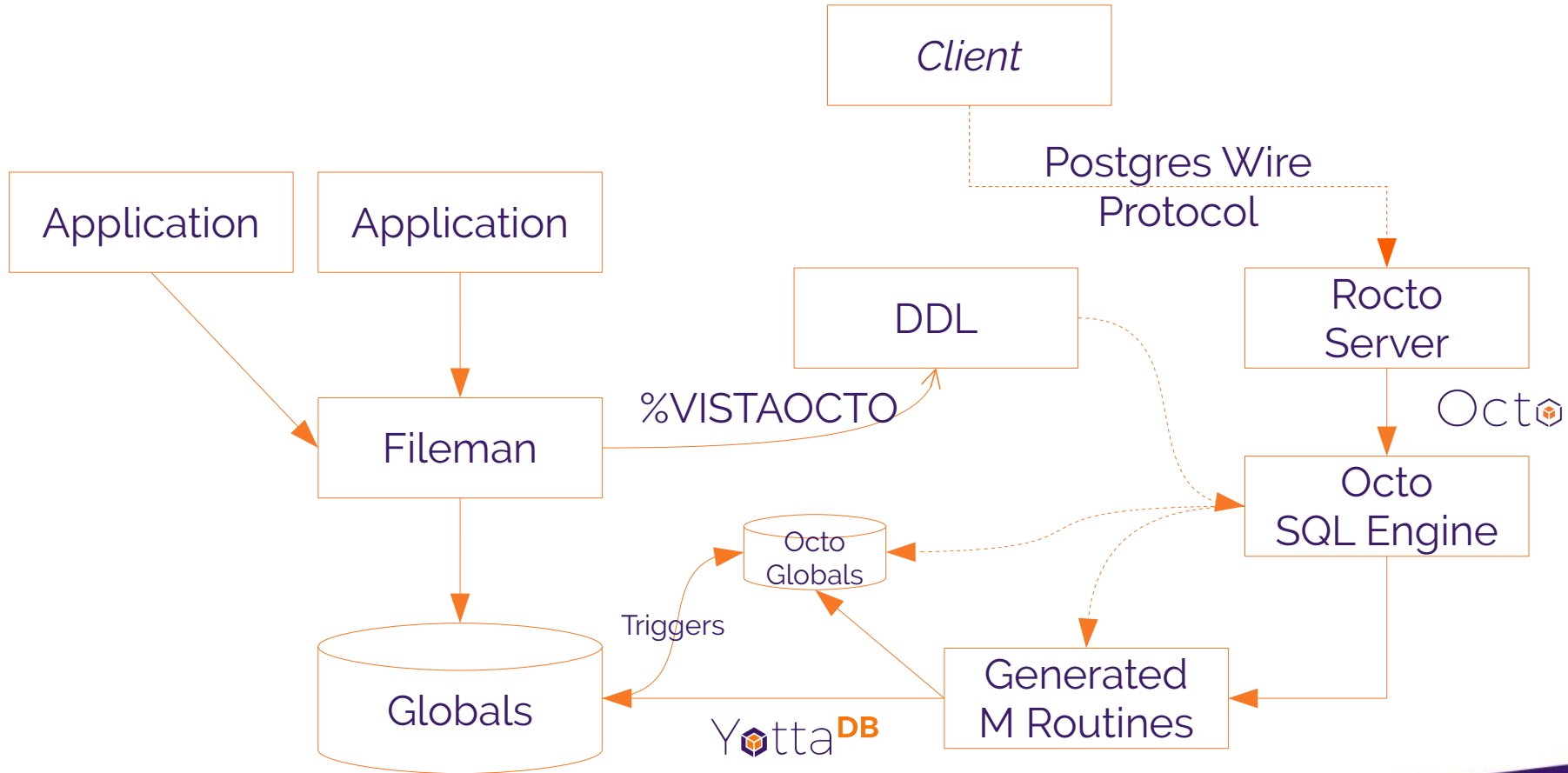
SQL Access (Limitation)



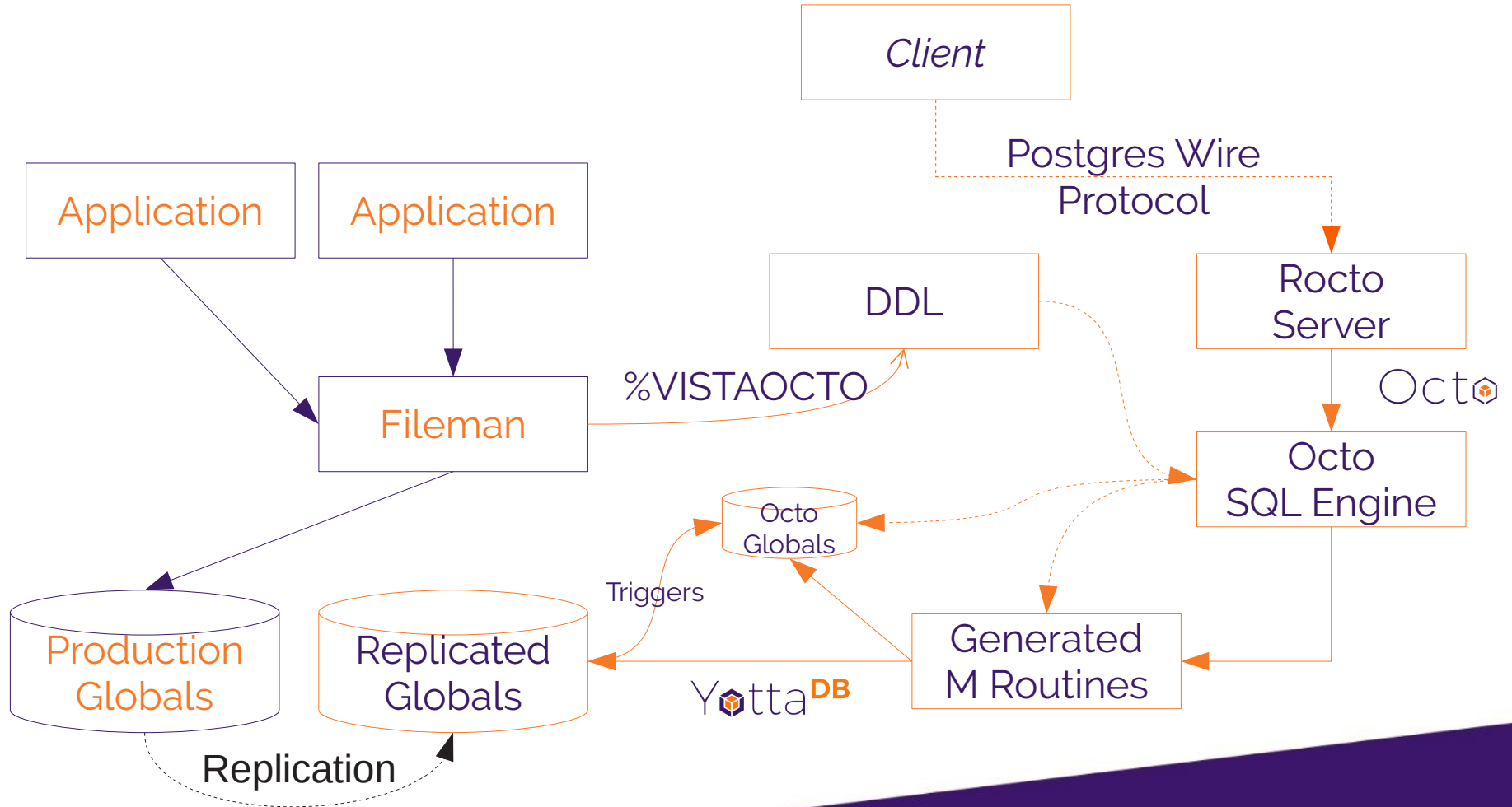
Performance bottleneck from reading metadata for every query!

Metadata available here

Octo Architecture



Octo Production Configuration



Demo

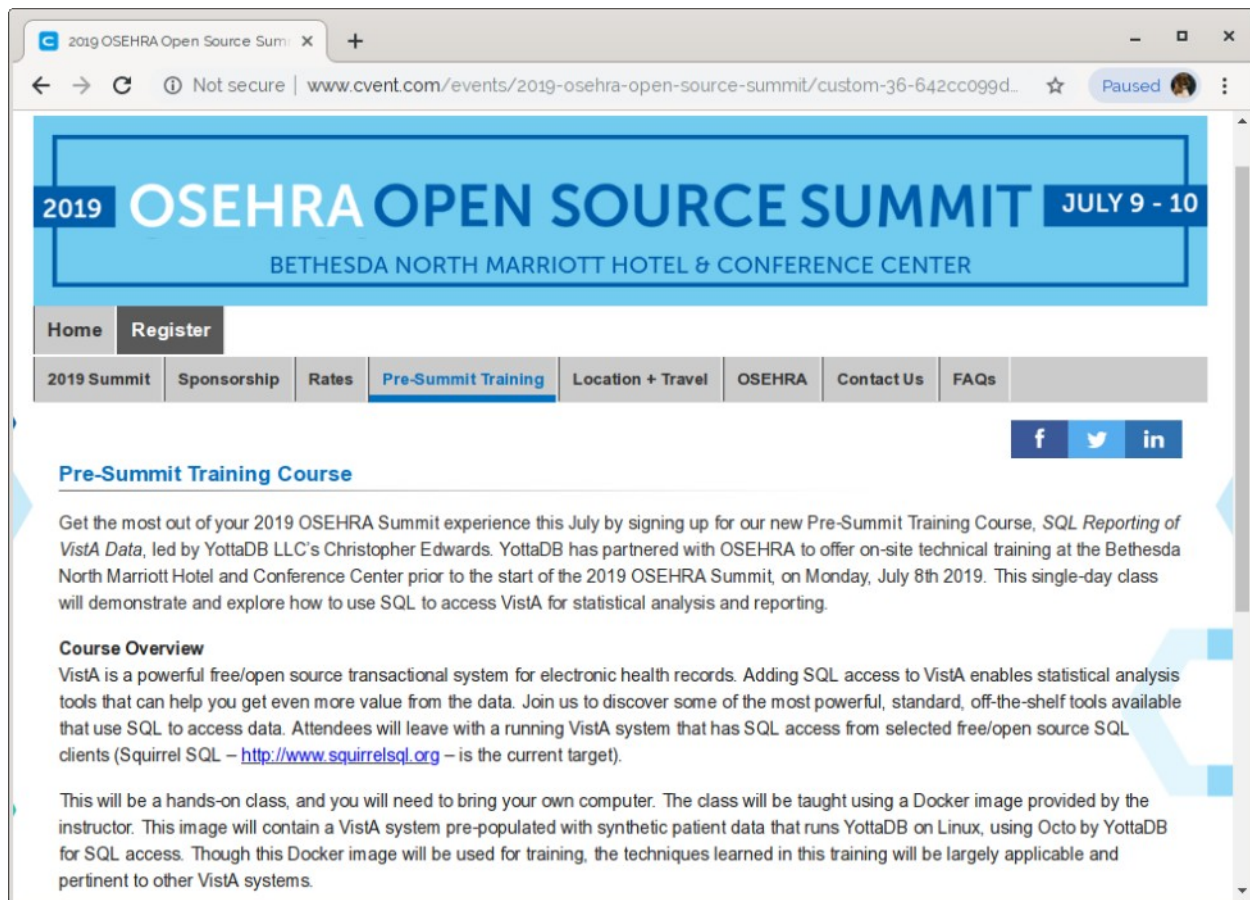
Christopher Edwards



Status

- 100% free / open source project developed in the open
 - <https://gitlab.com/YottaDB/DBMS/YDBOcto>
 - <https://gitlab.com/YottaDB/DBMS/ydbvistaocto>
- Initial target is read-only access
- Currently in alpha test – working with a friendly user as we develop functionality
- Beta test starts Monday, July 8

Training – Mon, Jul 8, Bethesda, MD



The screenshot shows a web browser window with the URL www.cvent.com/events/2019-osehra-open-source-summit/custom-36-642cc09gd.... The page features a blue header with the text "2019 OSEHRA OPEN SOURCE SUMMIT JULY 9 - 10" and "BETHESDA NORTH MARRIOTT HOTEL & CONFERENCE CENTER". Below the header is a navigation menu with "Home" and "Register" buttons. A secondary menu includes "2019 Summit", "Sponsorship", "Rates", "Pre-Summit Training" (which is highlighted), "Location + Travel", "OSEHRA", "Contact Us", and "FAQs". Social media icons for Facebook, Twitter, and LinkedIn are also present. The main content area is titled "Pre-Summit Training Course" and contains the following text:

Get the most out of your 2019 OSEHRA Summit experience this July by signing up for our new Pre-Summit Training Course, *SQL Reporting of VistA Data*, led by YottaDB LLC's Christopher Edwards. YottaDB has partnered with OSEHRA to offer on-site technical training at the Bethesda North Marriott Hotel and Conference Center prior to the start of the 2019 OSEHRA Summit, on Monday, July 8th 2019. This single-day class will demonstrate and explore how to use SQL to access VistA for statistical analysis and reporting.

Course Overview
VistA is a powerful free/open source transactional system for electronic health records. Adding SQL access to VistA enables statistical analysis tools that can help you get even more value from the data. Join us to discover some of the most powerful, standard, off-the-shelf tools available that use SQL to access data. Attendees will leave with a running VistA system that has SQL access from selected free/open source SQL clients (Squirrel SQL – <http://www.squirrelsql.org> – is the current target).

This will be a hands-on class, and you will need to bring your own computer. The class will be taught using a Docker image provided by the instructor. This image will contain a VistA system pre-populated with synthetic patient data that runs YottaDB on Linux, using Octo by YottaDB for SQL access. Though this Docker image will be used for training, the techniques learned in this training will be largely applicable and pertinent to other VistA systems.

Bring your
laptops!

Looking Ahead

- Production release later in 2019 depending on Beta test feedback
- Future direction – general read-write SQL database like Postgres, MariaDB, Oracle, SQL Server, etc.
- Support
 - Included through 2019 for YottaDB customers
 - Premium add-on to YottaDB support starting 2020



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Thank You!

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Questions?

Please use Zoom's Q&A or Chat feature to submit your questions and comments.

2019

OSEHRA SUMMIT

JULY 9 - 10

Open SaaS - Open Source in the Cloud

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AND CONFERENCE CENTER

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Thank you for joining today's presentation.

Please join us in June for our next Webinar - 2019 Summit Preview.