Database Architecture and Reporting

Allscripts Enterprise EHR

What: A three-day course for report writers, DBAs and those in healthcare informatics on the Allscripts Enterprise EHR database.

When: March 1-3, 2010

Where: Boston, MA

Price: $2,500

AE EHR database complexity: There are 14 databases that make up the AE EHR. The most common and complex of which is "Works", the primary clinical database. There are 1,150 tables and 560,000 lines of code over 3,200 stored procedures, 550 views and 200 functions.

Expert training on the AE EHR database is the key to understanding this complex data model.

The Allscripts Database Architecture and Reporting Workshop will provide you with the fundamentals necessary to build reports out of the Allscripts Enterprise EHR Database. Throughout the three day event we plan to review the key tables within the Allscripts databases, strategies for reporting repositories, deployment methods, and we will walk through reporting examples provided by the different attendees.

- **Course Highlights**
    - Enterprise EHR Database Architecture Review (key tables)
    - Develop Reports Based on Attendee Submissions
    - Review Reporting Methodologies
    - Review Report Deployment Methods
- **Recommended Audience**
    - *Reporting Analysts and Architects:* Your decision support or reporting group is likely flooded with requests for reports from Allscripts. We recommend using a data warehouse of some sort for reporting (direct copy of production, or one populated by an ETL process). The reporting analysts and architect(s) within your organization will need to understand the Allscripts EHR data model in order to service these report requests. They will obtain a thorough review of the key tables in the Allscripts database, how they link together (foreign keys are frequently not available), and the challenges found in retrieving data from the

EHR database. Data warehouse options and design considerations will be reviewed.

- o *Database Administrators:* The DBA will obtain a thorough review of the key tables in the Allscripts database, how they link together (FKs are frequently not available), and the challenges found in reporting from the EHR database - both in the data structure for reporting and performance impact of the queries and how the transactional data model affects the ability to write efficient reporting queries. Data warehouse options and design considerations will be reviewed.
- o Other
    - ▪ *Physician IT leaders* - we have trained a handful of physician-cum-IT directors who have had great success in understanding the data model, and being able to use both ad-hoc queries to make quick analyses of situations, and help their team write meaningful reports.
    - ▪ *IT leaders* - often times the managers and directors of IT groups are not hands-on writing reports. There are times; however, that leaders within the IT organization need to understand the EHR data model at a detailed level. The course is a perfect match for this situation.

- **Prerequisites**
    - o Prior knowledge of T-SQL is essential. Querying including multiple joins, CASE statements, temporary tables and GROUPing should be an area of comfort for the attendees.
    - o An understanding of the Allscripts Enterprise EHR with regards to management/admin and end-user use is required.
    - o A basic understanding of the Allscripts Enterprise EHR databases is preferred, but not necessary.
    - o Prior use of Crystal Reports and SQL Server Reporting Services will also be helpful.
    - o Allscripts Analytics and ETL– this course is well-suited for groups who already have Analytics or the Allscripts ETL, as well as those who don't. We will cover a variety of data not available in Analytics/ETL, as well as allowing your DBA group to query the data real-time, such as needed during performance or error troubleshooting.

Attending this Course

Contact Mike Dow for more information and to sign up. Space is limited and seats will be filled on a first-come, first-served basis.

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