Allscripts Enterprise EHR Database

Patient Demographic Information

Empowering Extraordinary Patient Care
Welcome

• Understand the Complexity of the Database

• Introduce you to Basic Querying

• Dictionary Querying and Linking
Why query the database

• Clinical Informatics

• Summarize data you see in the EHR

• Verify information that you see in the EHR, or in the interfaces

• Export information, e.g. Excel for Graphs and Pivot Tables
Be Careful

• The Allscripts database is Complex

• You can do harm, even by just running queries

• You may not have access – your organization’s policies
What To Do

• **Use TEST**
  - Or, a Data Warehouse
  - Query development and testing

• **When using Production**
  • Get permission from the IT/DBA group
  • Run queries off-hours
  • Ensure it takes a reasonable amount of time
    - Most queries should be less than a minute

• **VALIDATE!**
  • Always [Verify](#) your queries’ data
What NOT To Do

• **Never . . .**
  
  – Access the database without proper approval
  – Delete data. Ever.
  – Run *anything* in production during the day
  – Share passwords, even “defaults” like IDXAdmin
  – Save patient data on your PC or in email
    
    • HIPAA concerns
    • Your company’s policies
Common Patient Tables

- **Person**
  - Name, DOB, SSN. Person holds all basic person information - Patients, Users and Providers. Link on Patient_Member to filter out non-patients.

- **Patient_Iorg**
  - MRNs and Other Numbers. At least two entries will exist for each Patient, matching on InternalOrganization.

- **Person_Phone**
  - Phone Number information. Use dbo.fnPhone function to display human readable phone info.

- **Person_Address**
  - Address Information.

- **Primary_Insurance**
  - Insurance information. In v11, this stores primary, secondary and tertiary info, despite its name.

- **Patient_Member**
  - Extended patient info – Primary Care Provider, Is Inactive Flag and other misc info.
Patient View

• vGHSPatient
  – Created for this session
  – Common patient demographics
  – Complexity
    • 13 tables and views linked
    • Functions to show phone
    • Knowing what to exclude – IsInactiveFLAG on the Person table

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Dictionaries

- **Table naming**
  - Dictionary name, + “_DE”, e.g. Document_Type_DE

- **Linking – “DE” column = ID column.**
  - Document.DocumentTypeDE = Document_Type_DE.ID

- **Dictionary table**
  - SELECT * FROM Dictionary
    WHERE Name = ‘Resultable Item’
  - TableName: QO_DE
Keep it Simple

- Simple queries
- Validate / test as you go
- Use as building blocks for complex queries
Lookup Tables and Normalization

- **Q:** Why do I have to query 10 tables to get the info I need?
- **A:** Database Normalization
  - Required for the application to run effectively
  - Yes, it makes reporting more difficult

- **Data Warehouses, e.g. Allscripts ETL**
IT/DBA Recommendations

- **Create a reporting environment**
  - A copy of production, or
  - Use an ETL process, or
  - Use SQL Server Mirroring / Snapshotting

- **Separate SQL users for each person**

- **Limit access to read-only**
Summary

• Why we query the EHR

• Ask for Access, Use Test

• Patient Info

• Dictionaries
Galen Reporting Offerings

- Custom Reports
- Custom Print Forms
- ETL and Analytics Reporting
- Training
  - Analytics
  - Allscripts DB
  - ETL DB
Thank you for joining us today, for additional assistance....

You can contact us through our website at www.galenhealthcare.com