

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

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
 - http://en.wikipedia.org/wiki/Database_normalization
- **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**
 - http://wiki.galenhealthcare.com/Reporting_Database_User_Permissions

Summary

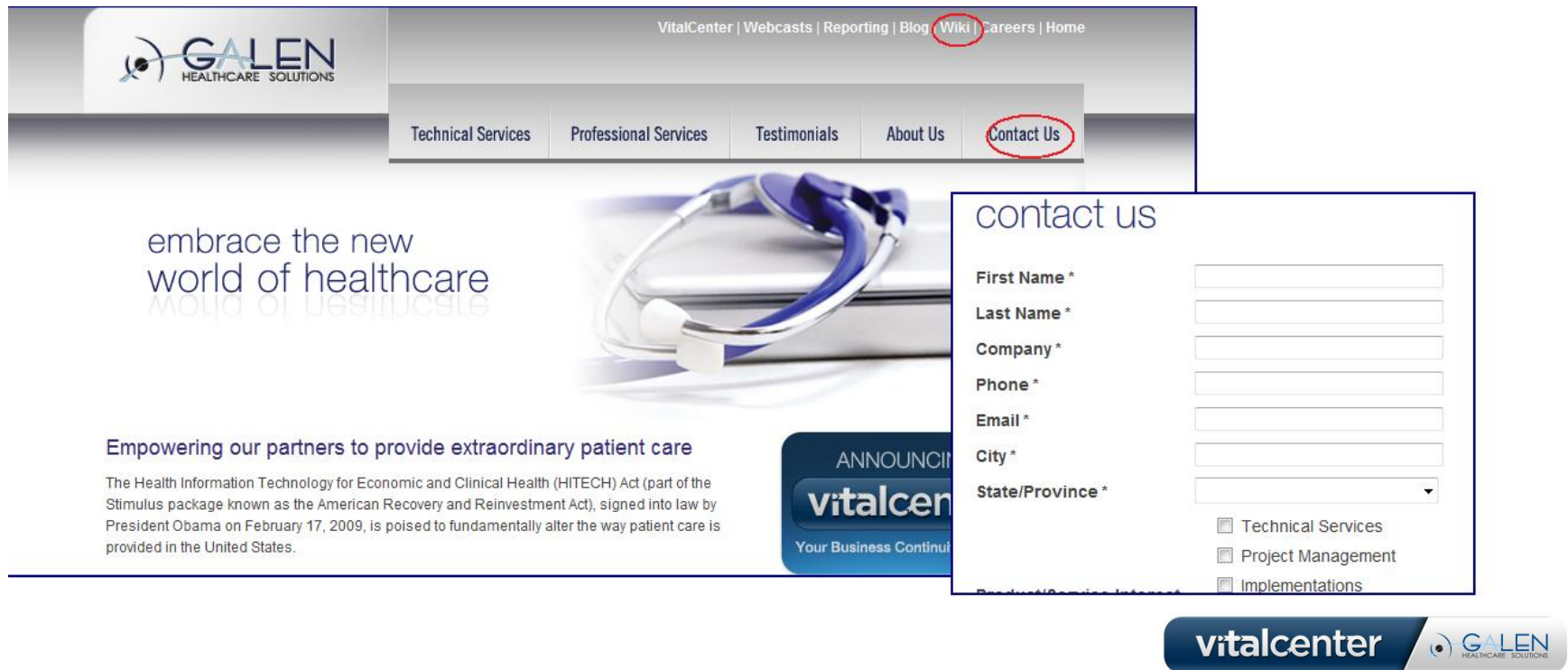
- **Why we query the EHR**
- **Ask for Access, Use Test**
- **Patient Info**
- **Dictionaries**

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



The screenshot displays the Galen Healthcare Solutions website. At the top, the navigation menu includes links for VitalCenter, Webcasts, Reporting, Blog, Wiki, Careers, and Home. Below this, a secondary menu features Technical Services, Professional Services, Testimonials, About Us, and Contact Us. The main content area features the slogan "embrace the new world of healthcare" and a section titled "Empowering our partners to provide extraordinary patient care" with text about the HITECH Act. A "vitalcenter" logo is also present. A "contact us" form is overlaid on the right side, containing fields for First Name, Last Name, Company, Phone, Email, City, and State/Province, along with checkboxes for Technical Services, Project Management, and Implementations.

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embrace the new world of healthcare

Empowering our partners to provide extraordinary patient care

The Health Information Technology for Economic and Clinical Health (HITECH) Act (part of the Stimulus package known as the American Recovery and Reinvestment Act), signed into law by President Obama on February 17, 2009, is poised to fundamentally alter the way patient care is provided in the United States.

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