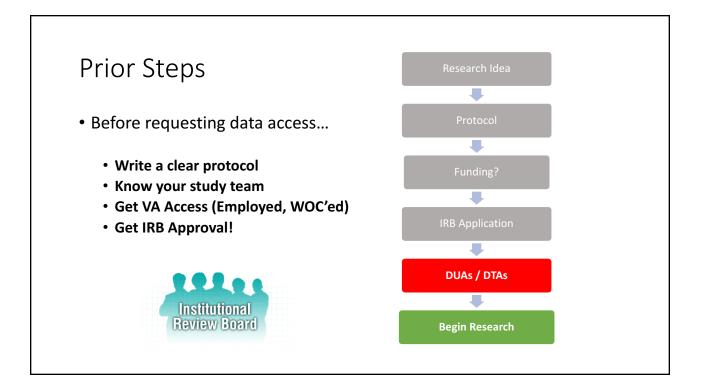
The Basics of VHA Data Accessing, Requesting, and Analyzing

Laura A. Graham, PhD, MPH Health Services Research Fellow, Ci2i, VA Palo Alto Postdoctoral Fellow, SPIRE, Stanford University



Seeking Information on VA Data?

• VHA Data Portal

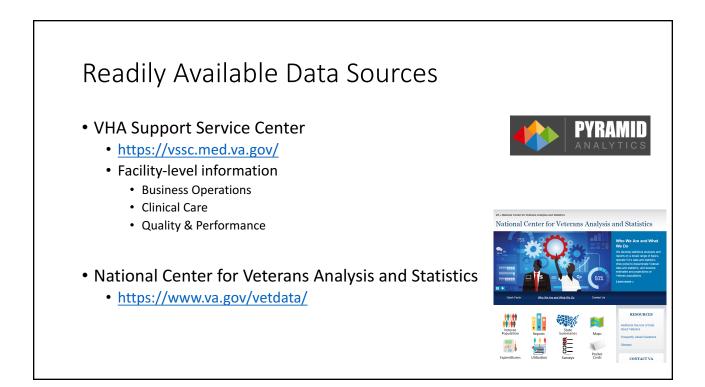
- <u>http://vaww.vhadataportal.med.va.gov/</u>
- Great resource for VHA data

• VHA Data Architecture Repository

- https://vaausdarmul81.aac.dva.va.gov/
- Detailed data dictionary for CDW tables
- Search string can be useful for finding data buried in CDW tables

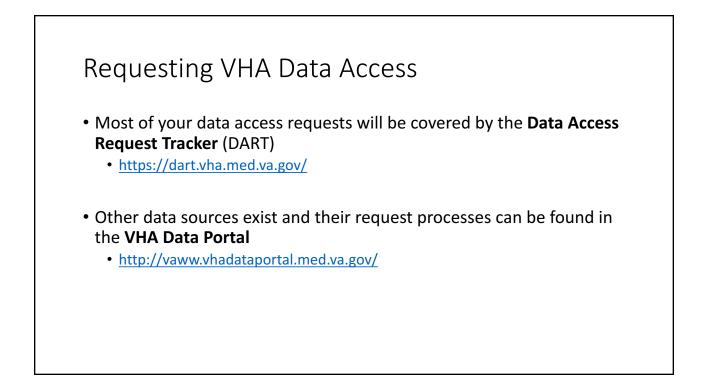
Seeking Information on VA Data?

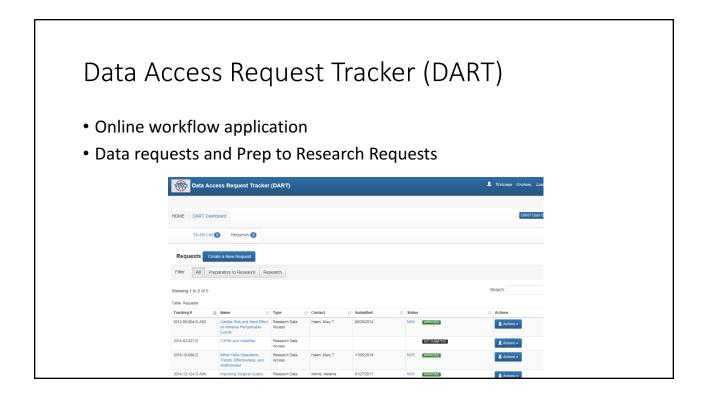
- VA Informatics and Computing Infrastructure (VINCI)
 - <u>https://vaww.vinci.med.va.gov/vincicentral/</u>
- VA Information Resource Center (VIReC)
 - <u>http://vaww.virec.research.va.gov/</u>
- VA Health Economics Research Center (HERC)
 <u>http://vaww.herc.research.va.gov/</u>
- Office of Performance Measurement (OPM)
 - https://vaww.car.rtp.med.va.gov/
- Planning System Support Group (PSSG)
 - <u>http://vaww.pssg.med.va.gov/</u>
- Data.gov / Corporate Databases Monograph
 - <u>www.data.gov</u>

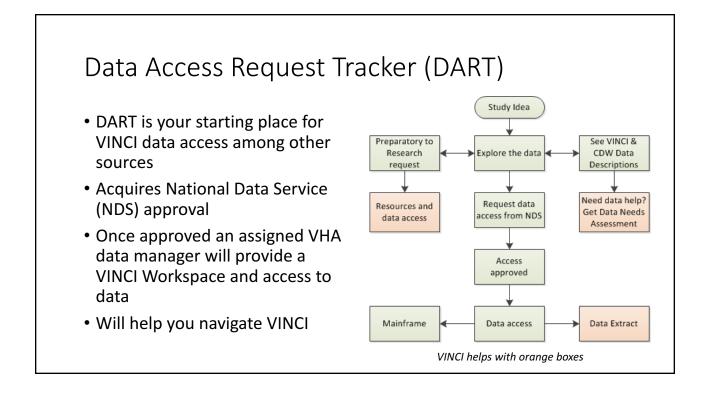


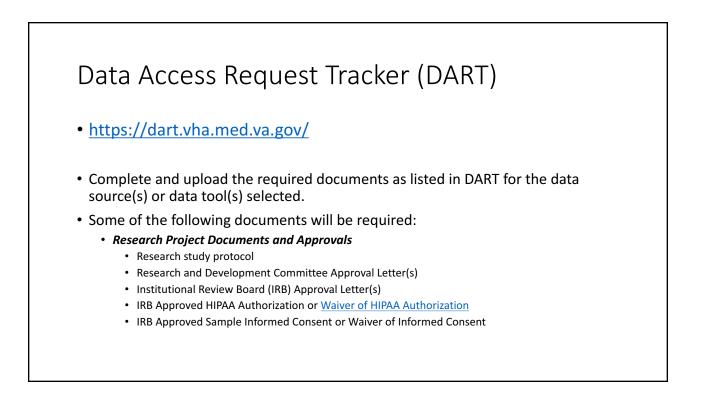
DART

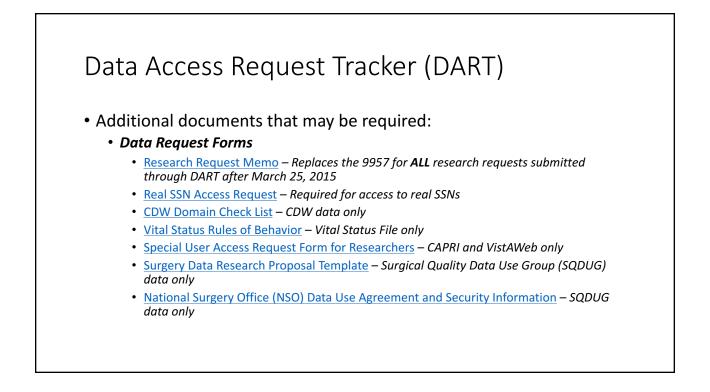
Data Access Request Tracker





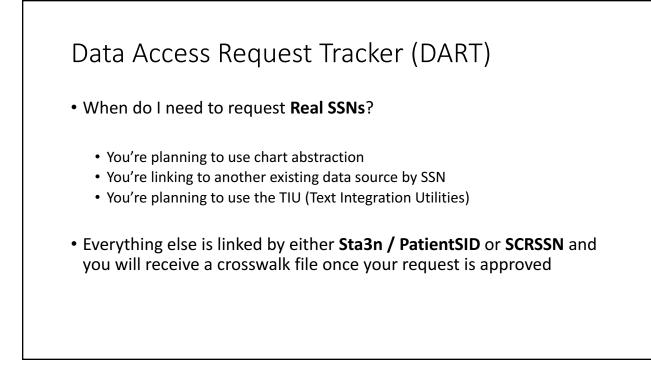


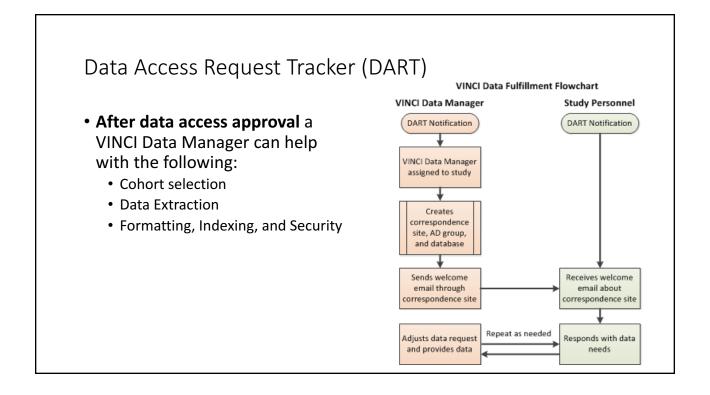


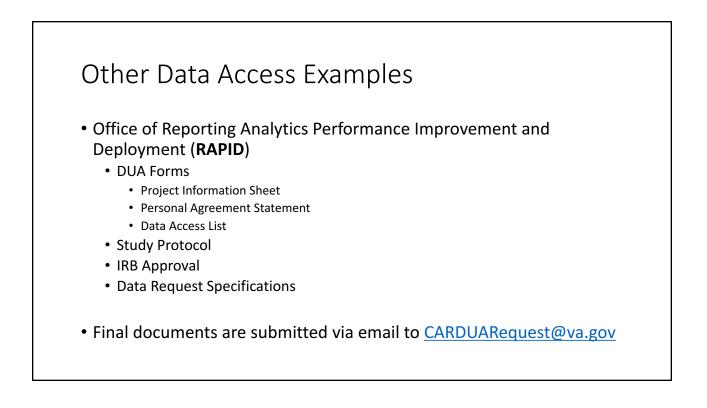


	⁻ (DART)
Data Access Request Tracker (DART)	L Welcome Graham, Laura A.
HOME > DART Dashboard > Requests	DART User Guide
Information Participants Data Documents Submit 2014-12-124-D-A04 Improving Surgical Quality: Reisk and Impact of Readmission	History Communication
AMENDMENT NARRATIVE: Add Personnel.	
Activity Information	
REQUEST INFORMATION	
Short Name * Improving Surgical Quality: Risks and Impact of Readmission	
IRB Number* CIRB: 14-07	
IRB Expiration * 🗮 11/03/2017	
Start Date * 🗮 11/04/2014	

Data Access Request Tracker (DART) Once all required documents are uploaded and the request has been submitted, it will undergo a privacy review. Additional reviews are required for the following: Requests for data with real SSNs will undergo review by the Office of Research & Development. Requests will undergo a security review using the information provided in the Research Request Memo.







VINCI *The VA Informatics and Computing Infrastructure*

VINCI Introduction

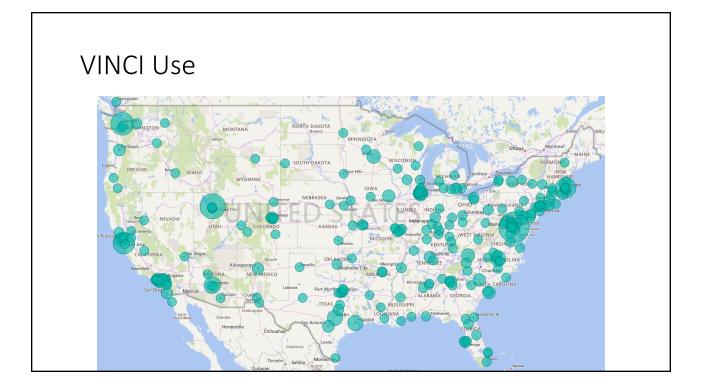
- Web-based platform for accessing and analyzing data with a variety of tools
- Provides consultation services for IRB Research for the entire life-cycle of a research project
- <u>https://vaww.vinci.med.va.gov/vincicentral/</u>

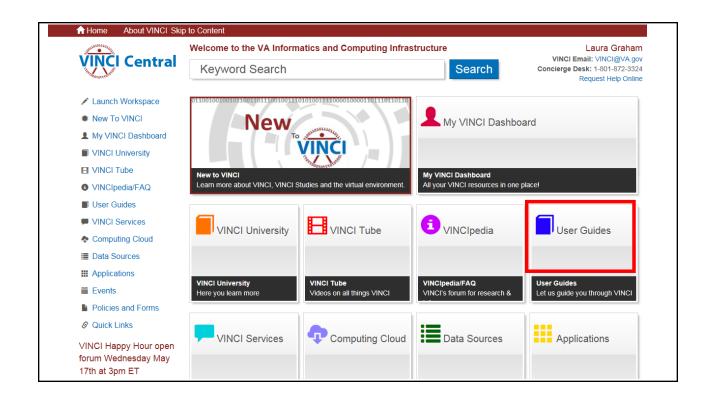
A CONTRACTOR OF CONTRACTOR OFO	Welcome to the VA Informatics and Computing Infras	Laura Graham		
VINCI Central	Keyword Search	Search	VINCI Email: VINCI@VA.gov Concierge Desk: 1-801-872-3324 Request Help Online	
🖍 Launch Workspace	01100100100100100110111001001110101001111			
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VINCIpedia/FAQ	Learn more about VINCI, VINCI Studies and the virtual environment.	All your VINCI resources in or	ne placel	
User Guides				
VINCI Services	VINCI University		User Guides	
Computing Cloud		Vincipedia	, Oser Guides	

VINCI Introduction • https://vaww.vinci.med.va.gov/vincicentral/ • 105 high-performance servers and 1.5 petabytes of data storage • 450+ new projects – 17% increase YOY • Provided data to 840+ projects • VINCI Data Analysts touch about 50 projects/week • Structure • Windows 2012R2 Workspace

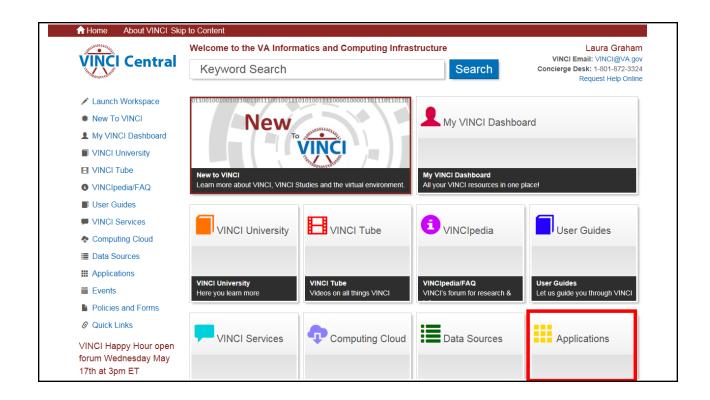
- SQL Servers (Currently 3)
 - **RB01**: vhacdwdbs01.vha.med.va.gov **RB02**: vhacdwdbs02.vha.med.va.gov

 - **RB03**: vhacdwdbs03.vha.med.va.gov

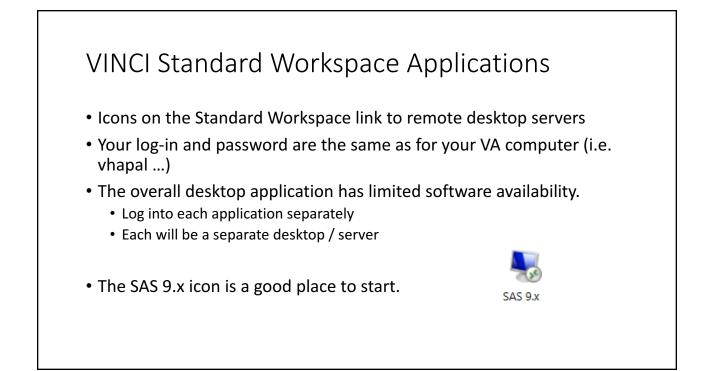


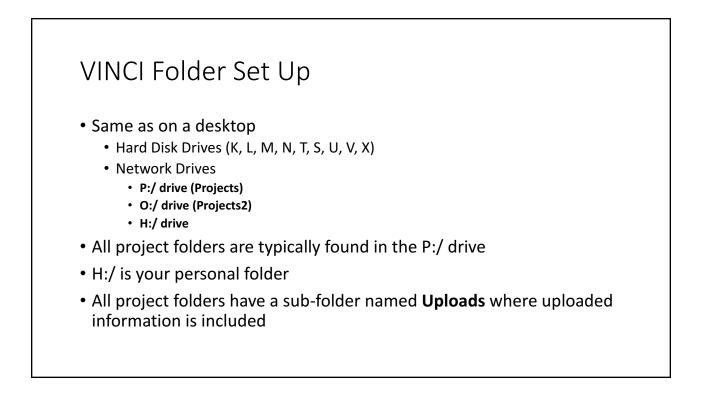


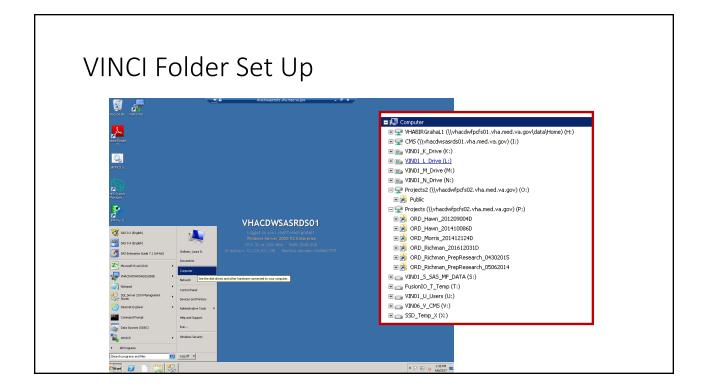
VINCI User	Guides
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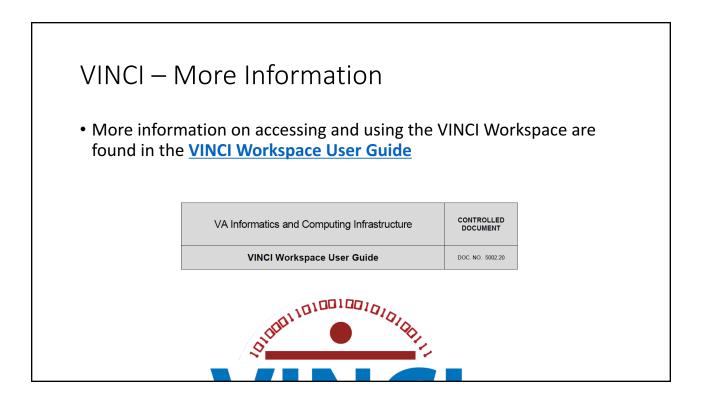


Standard	l Workspace	Develop	ment Worksp	bace			Requ	est a Works	oace Help
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Microsoft InfoPath Filler 2010	Microsoft PowerPoint 2010	Microsoft Word 2010	Notepad++	NVivo 8	Protege 3.3.1	Protege 3.5	PSPP	PUTTY-CAC	R x64 3.3.1
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	SAS 9.x	SAS Universal	SPSS Statistics	SQL Server	StataMP 14	StatTransfer	windiff	SAS Grid	









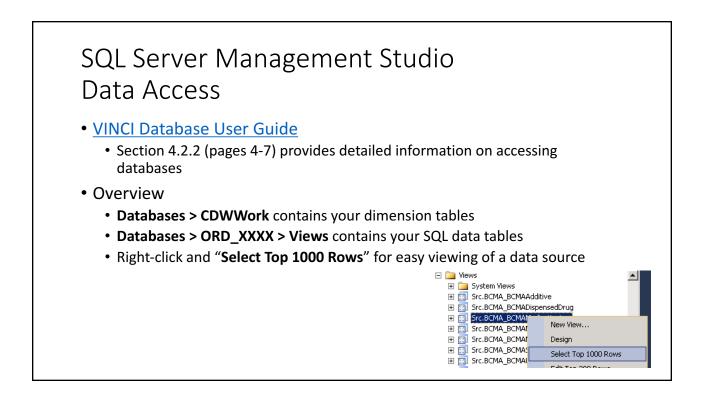
SQL Server Management Studio

View Your Data

SQL Server Management Studio

- 2017 version
- Method for accessing and viewing CDW domain tables with SQL code
- Can also be used to pull data in a .txt format if needed
- Requires some initial set up to link to servers and some SQL knowledge but also has **point-and-click options** that make it easy to use
- The best place to start looking at data you've been given access to for your study

SQL Set	. Server Managem Up	ient Stud	io
	CI Database User Guide ection 4.2.1 (pages 3-4) provide	s detailed inforr	nation on SQL server set up
Microsoft S	SQL Server 2014 Database Engine Whacdwrb02, wha med va gow	Default Settings 1 Server Type:	o Use Database Engine
Authentication: User name: Password:	Windows Authentication	Server Name:	<database name="" server=""> .vha.med.va.gov Windows Authentication</database>
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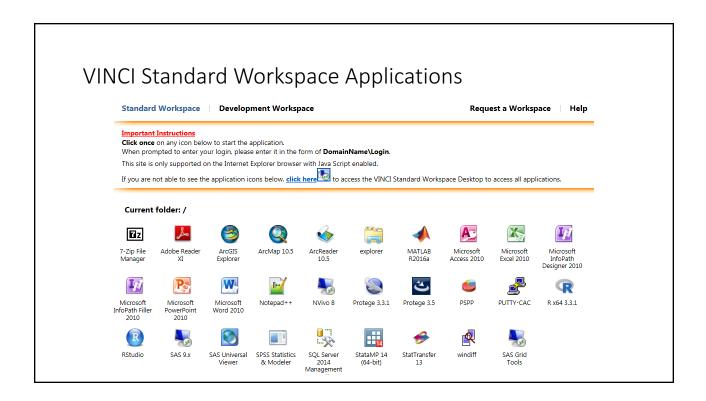


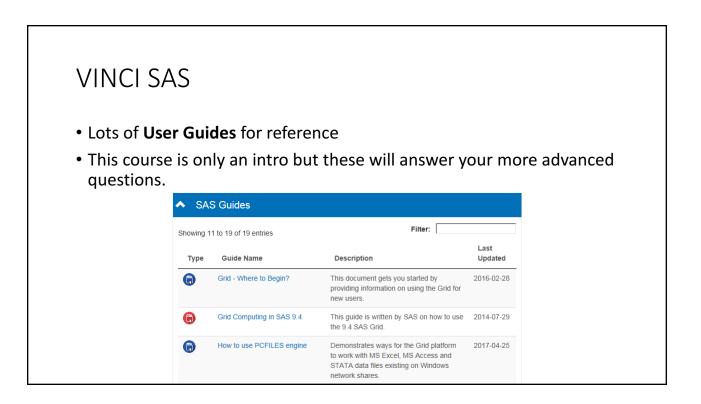
SQL Server Management Studio Data Pulls

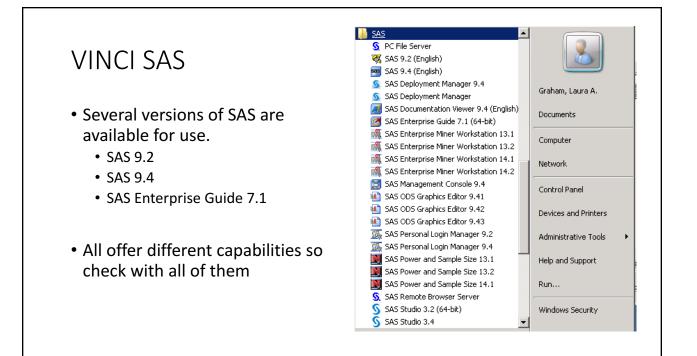
- Not as efficient as a SAS pull but can be done
- First, set up your query. Your initial runs will be output to Grid.
- Once your query is set up
 - Use "Query > Results To" to change to "Results to File"
 - Then "Query > Query Options..." to set up your file but navigating through "Results > Text"

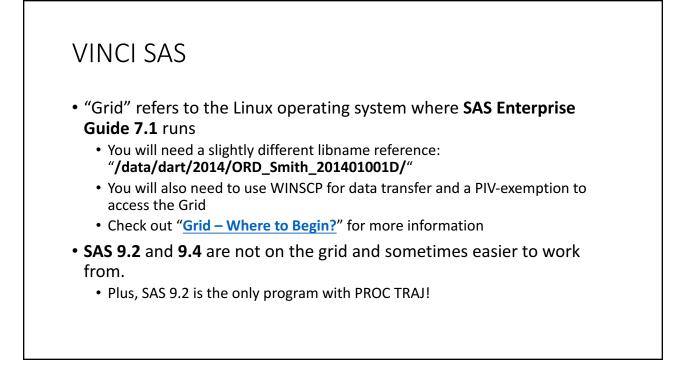
Applications for Analysis

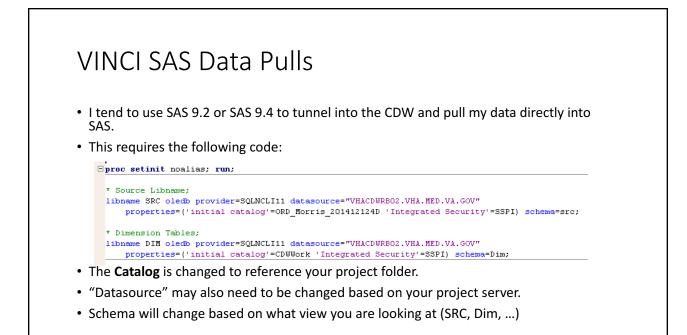
Analyze Your Data

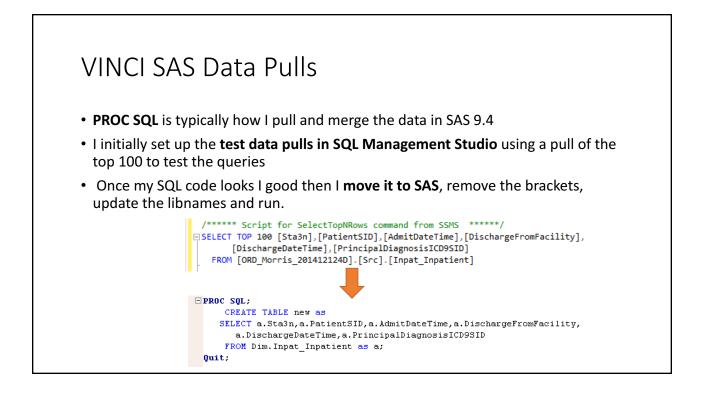


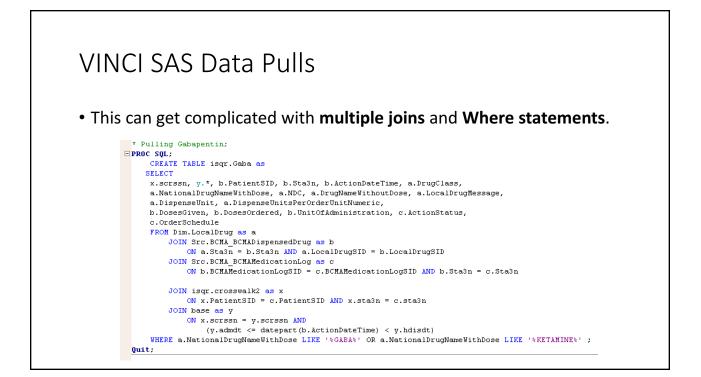


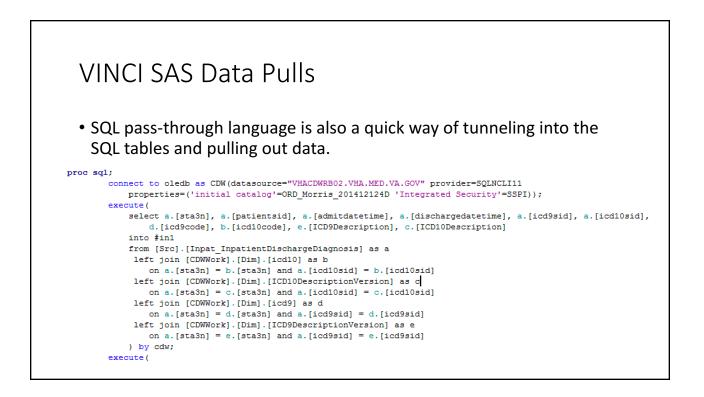






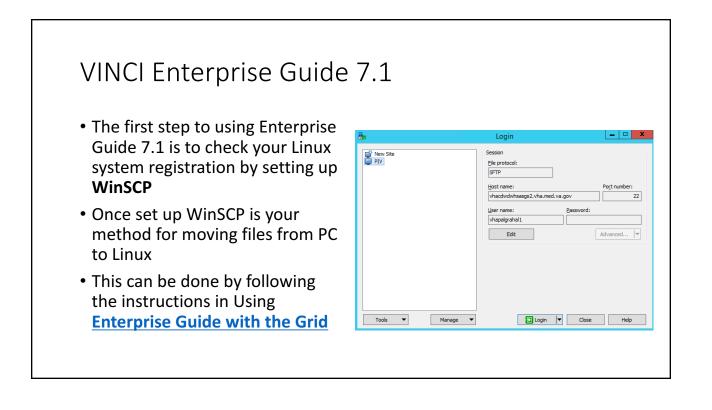






VINCI Enterprise Guide 7.1

- VINCI SAS 9.4 and 9.2 are limited in the types of analyses that can be done
- VINCI Enterprise Guide offers everything and is by far the most capable of the SAS products but you have to set up links to the Grid and move your files to the Linux system
- I tend to do most of my data management and cleaning in 9.4 and then switch the analytic dataset to Linux for my analyses



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VINCI Enterprise Guide	7.1
 To use SAS Enterprise Guide 7.1 you will need to set up your connection 	Modify Profile
 This can be done by following the instructions in Using <u>Enterprise Guide</u> with the Grid 	Machine

Policies

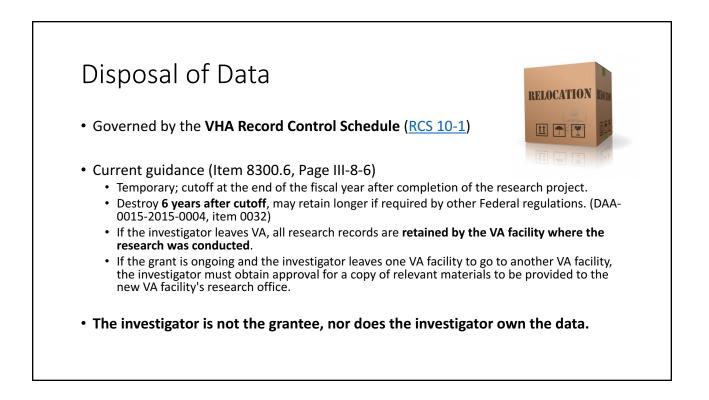
Protect Your Data

Policies for Electronic Data

- VA Handbook 6500
 - Definitions and guidance for the VHA
- Key Points
 - USB drives are forbidden
 - Do not store sensitive information on a Hard Drive (C:/ Drive). Try not to store anything on a hard drive.
 - Sensitive information can never be transported, accessed, processed or otherwise used offsite. **DON'T EMAIL DATA!**

Types of Data

- 1. Individually Identifiable Health Information
- 2. Protected Health Information (PHI)
- 3. Personally Identifiable Information (PII)
- 4. VA Sensitive Information/Data
- <u>VHA Handbook 6500</u> provides guidance on definitions and management



Fun Things to Do

Full Organizational View

- >9 Million Enrolled Patients
- 170 VA Medical Centers (141 with Surgical Capacity)
- 1,063 Outpatient Centers



