

# CDW: Locating its Documentation 2017

by Margaret Gonsoulin, PhD

April 5, 2017



# Thanks to:

- Richard Pham, BISL/CDW
- Mark Dean, BISL/CDW
- Heidi Scheuter and Hira Khan for organizing this session

# Acronyms -Data & Metadata

- VistA – Veterans Health Information Systems and Technology Architecture; an information system that has many applications. It stores the Electronic Health Record.
- Corporate Data Warehouse (CDW) – national level database housing clinical, administrative and financial Veterans Health Administration (VHA) information.
- Metadata – documentation describing the data.

# Acronyms - Offices & Resource Centers

- **Business Intelligence Service Line (BISL)** – the architects of the CDW.
- **VA Informatics and Computing Infrastructure (VINCI)** – the group that, in part, maintains servers that hold a copy of CDW and provides extracts of CDW to researchers.
- **VA Information Resource Center (VIReC)** – the group that, in part, investigates and documents the CDW.

# Review - 2 Domain Types

- Production Domains – contains tables that have been structured by BSL to support their re-joining.
- Raw Domains – contains tables that are direct extracts from the source system (e.g., VistA) that are simply being housed with no editing performed on them.
- These types of domains also vary in terms of their documentation.

# Poll #1: Your Primary Type of Work

What type of work do you do in the VA?

- Health Services Research / HSR&D
- Quality Improvement Research
- Operations Work/Data Analytics
- Research with Operations Partners
- Other

# In today's talk...

- Identify the sites that hold documentation of CDW
- Review the content of materials in each site
- And, learn the basics of how to use these resources

# Part 1 - Production Domains

DW Home > MetaData > Reports

Actions | | | | 1 of 1 | |  Find

## CDW Metadata

Contains a grouped list of available CDW ER Diagrams and members.

ImageDescription	Image Date
<a href="#">Active Directory 1.0</a>	20 Jul 2016
<a href="#">Allergy 1.0</a>	01 Feb 2014
<a href="#">Appointment 2.2</a>	25 Apr 2016
<a href="#">Consult 2.1</a>	24 Sep 2015
<a href="#">CPRSOrder 1.0</a>	11 Aug 2014
<a href="#">Data Profiling 1.0</a>	21 Feb 2014
<a href="#">Dental 1.0 Diagram 1 of 2</a>	05 Mar 2017
<a href="#">Dental 1.0 Diagram 2 of 2 for Analytics</a>	20 Apr 2016
<a href="#">Dimensions A Through D 7/8/2015</a>	08 Jul 2015
<a href="#">Dimensions E Through K 7/8/2015</a>	08 Jul 2015
<a href="#">Dimensions L Through O 5/4/2016</a>	04 May 2016
<a href="#">Dimensions P Through R 3/7/2016</a>	07 Mar 2016
<a href="#">Dimensions S Through Z 3/7/2016</a>	07 Mar 2016
<a href="#">Dimensions_MRSA</a>	31 Dec 2015
<a href="#">Dimensions_Place</a>	30 Mar 2016
<a href="#">EDIS 1.0</a>	13 Jan 2017
<a href="#">Encounter 1.0</a>	29 Oct 2013
<a href="#">Health Benefits Request 1.0</a>	03 Oct 2016
<a href="#">Health Factor 2.1</a>	15 Sep 2015
<a href="#">ICD-9-CM and ICD-10-CM</a>	24 Sep 2015
<a href="#">ICD-9-PCS and ICD-10-PCS</a>	10 Aug 2015
<a href="#">Immunization 2.1</a>	03 Jun 2015
<a href="#">Inpatient 2.0 Diagram 2 of 3 for Census</a>	06 Oct 2015
<a href="#">Inpatient 2.0 Diagram 3 of 3 for Fee Basis &amp; Lodgeer</a>	17 Feb 2014
<a href="#">Inpatient 2.1 Diagram 1 of 3</a>	20 Aug 2014
<a href="#">Inpatient 3.0</a>	12 Jan 2017
<a href="#">Lab Microbiology 2.0</a>	05 Jul 2015
<a href="#">LabChem 2.0</a>	11 Aug 2014
<a href="#">Mental Health 1.1</a>	23 May 2016
<a href="#">NonVAMeds 1.0</a>	11 Aug 2015

## CDW SharePoint Metadata Report

the most up-to-date list of production domains



[https://vaww.cdw.va.gov/metadata/\\_layouts/15/ReportServer/RSViewerPage.aspx?rv%3aRelativeReportUrl=/metadata/Reports/Metadata%20Report.rdl&Source=http%3a//vaww.cdw.ro2.med.va.gov/metadata/Reports/Forms/AllItems.aspx&DefaultItemOpen=1](https://vaww.cdw.va.gov/metadata/_layouts/15/ReportServer/RSViewerPage.aspx?rv%3aRelativeReportUrl=/metadata/Reports/Metadata%20Report.rdl&Source=http%3a//vaww.cdw.ro2.med.va.gov/metadata/Reports/Forms/AllItems.aspx&DefaultItemOpen=1)

## 4 Documentation Sites for Production Domains

We will explore 4 main sites housing information:

1. VA Information Resource Center (VIReC) ★
2. CDW SharePoint
3. Data Architecture Repository (DAR)
4. VHA Data Portal

<http://vaww.virec.research.va.gov/>

## VA INFORMATION RESOURCE CENTER (VIREC)

VIREC Home  
VA/CMS Home  
About Us  
New Users of VA Data  
FAQs  
Acronyms  
HelpDesk



[Data Issues Brief, October 2015](#)

[Upcoming Cyberseminars](#)

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CONVERSATIONS ABOUT VA DATA

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CURRENT VA DATA NEWS

**Data Issues Brief**



GATEWAY TO DATA RESOURCES

**VHA Data Portal**



### Data News

**ICD-10 Transition:** VA will implement the ICD-10 code set October 1, 2015. Datasets commonly used by researchers will be affected.

[More info...](#)

**New CMS Data for Researchers:** 2013 Medicare, 2011-2012 MCBS, and 2007-2012 HEDIS data.

[More info...](#)

**NPCD Retirement Data Extended:** NDS had extended the retirement date to October 1, 2016.

[More info...](#)

**CDW Domain Updates:** Microbiology Domain now includes all etiologies involved in pathogenic microbiology. Outpatient 2.1 Domain has been released.

### New from VIREC

#### Open Positions at VIREC

VIREC is recruiting for two positions in our Data Knowledge area

- [Associate Director for Research](#)
- [Social Science Analyst](#)

#### ICD-10 Information for Researchers

Learn how the ICD-10 transition affects select datasets commonly used by the research community.

#### Race & Ethnicity Data

Learn about data sources containing race and ethnicity data elements.

#### ED & Urgent Care Encounters Data

Learn about data sources containing ED and urgent care encounters data.

### VIREC Resources

[Working with VA Data:](#) Guide to VA data sources, topics, and tools.

[VA/CMS Data for Research Project:](#) Data custodian for CMS and USRDS data for VA research.

[Factbooks:](#) Describe tables, columns, and values in select CDW Domains.

[Research User Guides:](#) Detailed information on select data sources, including variable descriptions.

[The Researcher's Notebook:](#) Practical information on using data from researchers in the field.

[Data Reports:](#) Technical reports, data investigations, and data quality



# 1. VIREC's CDW Documentation Page

- This consists of a set of products that allow a glimpse into CDW data before you have been granted official access.

## Data Documentation

Expand each type of documentation below to view these resources.

**Getting Started with Using CDW**

**NEW! Factbooks** 

**NEW! Statistical Snapshot**

**Domain Layout & Descriptions**

**Data Contents**

**Discrete Frequencies**

**Record & Null Counts**

# CDW Domain *Factbooks*

## CDW Documentation

### Overview

VIREC's CDW documentation is designed to help new and seasoned CDW users with understanding the structure and contents of the CDW. This summary information is available by domain.

### Sign-up for Product News & Updates

E-mail the VIREC [HelpDesk](#) to receive notification of our new CDW products and product updates.

## Data Documentation

Expand each type of documentation below to view these resources.

### Getting Started with Using CDW

### **NEW!** Factbooks

This product provides descriptions of tables, columns, and values in select CDW Domains including domain-specific SQL "starter language" and sample SQL code.

Expand list by pressing the plus sign 

Domain		Published	 Factbooks
Consult	2.1	2016/02	
<b>NEW!</b> CPRS Orders	1.0	2017/01	
Inpatient	2.1	2016/10	
<b>UPDATED!</b> Mental Health	1.1	2017/02	
Non-VA Meds	1.0	2016/02	
Outpatient	2.1	2016/09	
Patient	2.0	2016/05	
Patient Enrollment (with EWL)	1.0	2015/07	
Pharmacy Patient	1.0	2016/10	



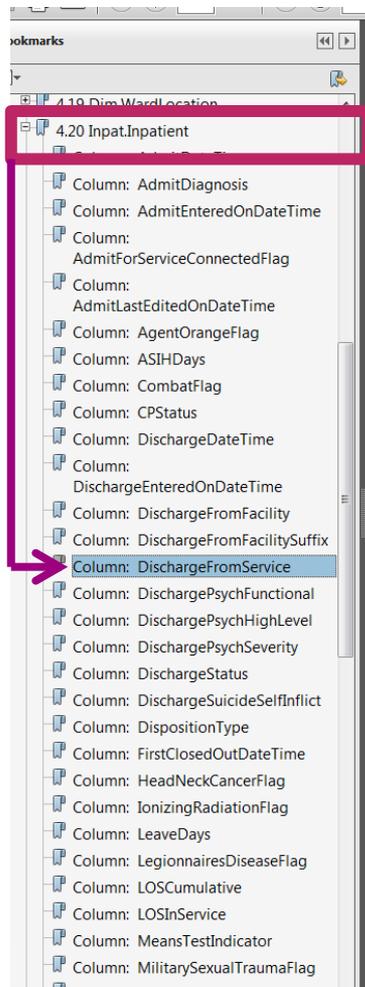
# Factbook

## VIReC Factbook

*Corporate Data Warehouse (CDW)*  
*Inpatient 2.1 Domain (Part I – Inpatient)*  
*Revised*  
October, 2016

- Table of Contents
- Part 1. About this Factbook
- Part 2. Introduction to Inpatient 2.1 Domain
- Part 3. Clinical Context
- + Part 4. Table and Column Descriptions
- Part 5. Primary and Foreign Key Connections Query
- + Part 6. Example SQL Code for Basic Research Questions
- Part 7. References
- Appendix A: List of columns that were not selected
- Appendix B: Definitions

# Factbook - Column Description



**Column:** DischargeFromService

**Description:** The name of the service that the patient was transferred out of as a result of this movement for this episode of care.

**Notes:** One will also find “medical obser,” “neurology,” and “psychiatry” among the entries.

**Values:**

Value	Description
B	Blind Rehab
D	Domiciliary
I	Intermediate Med
M	Medicine
NE	Neurology
NH	Nursing Home Care Unit (NHCU)
P	Psychiatry
R	Rehab Medicine
RE	Respite Care
S	Surgery
SCI	Spinal Cord Injury

**Vista source information:**

Vista File	Vista Field
501 (#45.02)	Losing Service (#21)

# Example of “notes” on a column

**Column:**                    **OrderingResulting**

**Description:**            An indicator of whether the diagnosis is an ordering diagnosis, resulting diagnosis or both.

**Notes:**                    As of 12/22/2015, the majority of values are NULL.

A value of “ordering” indicates that the diagnosis is supporting an order for a test. A value of “resulting” indicates that the diagnosis is due to the results of the test. The value of “both” indicates that the diagnosis is both resulting from an order and used to support an order [14].

The Ordering/Resulting Diagnosis prompt is available for some application encounters (i.e., Surgery), that choose to distinguish between the ordering diagnosis and resulting diagnosis. This prompt is optional; answers to the prompt are relevant for the purposes of billing [13].

Values:

Value	Description
O	Ordering
OR	Both ordering and resulting
R	Resulting

VistA source information:

VistA File	VistA Field
V POV (#9000010.07)	Ordering/Resulting (#.17)

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**Record & Null Counts**

# CDW Statistical Snapshot



## CDW Statistical Snapshot

December, 2016

### Patient Demographics

#### Introduction

This snapshot is a reference for researchers interested in the demographic characteristics of the patient population in the SPatient.SPatient table within the Corporate Data Warehouse (CDW). Below are tables that summarize patient demographics in the CDW. These demographics include: age, sex, race, marital status, ethnicity, and urban/rural residence. Each table has two sets of frequencies. The first set pertains to all patients, and the second set is limited to Veteran patients only.

**Table 2: Number of Individuals by Each Sex Category**

	All Patients		Veterans	
	n	%	n	%
<b>Single Entry of Sex</b>	<b>22,128,114</b>	99.23%	<b>17,360,808</b>	99.87%
Male	18,682,904		16,413,200	
Female	3,445,209		947,608	
2	1		0	
<b>Multiple Entries of Sex</b>	<b>1,969</b>	0.01%	<b>1,196</b>	0.01%
<b>Missing</b>	<b>169,057</b>	0.76%	<b>20,705</b>	0.12%
<b>Total</b>	<b>22,299,140</b>		<b>17,382,709</b>	

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# Domain Layout & Domain Descriptions

VHA Corporate Data Warehouse (CDW) Domain Layout, November 2016				
Domain	Schema	Table Name	Field Count	FileMan File Data Source
Patient Associated 1.0	PatSub	NoseThroatRadiumHST	29	NOSE AND THROAT RA
	SPatient	MilitaryServiceEpisode	16	MILITARY SERVICE EPIS
Patient Enrollment (with EWL)	Dim	EnrollmentStatus	8	ENROLLMENT STATUS (
	Patient	Enrollment	53	PATIENT ENROLLMENT
Patient Insurance 1.0	Patient	InsuranceGroupPlan	35	GROUP INSURANCE PL
	SPatient	SPatientInsurance	79	INSURANCE TYPE (2.31:
	Dim	BranchOfService	5	BRANCH OF SERVICE (2
	Dim	IBInformationSource	5	INSURANCE FILING TIM
	Dim	IBInsurancePayer	11	PAYER (365.12)
	Dim	IBProviderIDType	20	IB PROVIDER ID # TYPE

## Corporate Data Warehouse (CDW) Domain Descriptions

### Allergy 1.0 Domain

The Allergy Domain contains information on allergies or adverse reactions to drugs, allergens or reactants. It also contains information on the type/nature of those reactions and whether the reactions were verified by medical personnel.

### Appointment 2.0 Domain

The Appointment Domain provides information about a patient's appointment, which includes the purpose, duration, status, location and staff interaction during the encounter. The domain also contains patient demographics, most recent dates of care at other facilities, whether the patient served in combat, and was discharged from military due to disability. Information about the patient's enrollment application for health benefits is also available.

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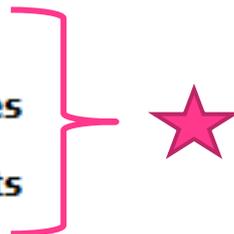
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# Discrete Frequencies

## Discrete Frequencies

This resource provides frequencies for fields with discrete values in the CDW domains listed in the table below.

Domain	Released	Frequencies
Allergy 1.0	2015/06	
Appointment 2.0	2015/06	
Consult 2.1	2015/06	
CPROrder 1.0	2015/06	
Dental 1.0 - Dental	2015/09	
Dental 1.0 - Dental Analytics	2015/06	
HealthFactor 2.0		



## VHA Corporate Data Warehouse (CDW) Appointment 2.0 Domain Discrete Value Frequencies

1													
2	<b>About This Workbook</b>												
3	This workbook provides frequencies for fields with discrete values in the Appointment 2.0 domain fact tables in the Corporate Data Warehouse (CDW). The information is presented by available fiscal years based on the Partition Key Date field in each table. The available fiscal years vary by table.												
4													
5	Select the fact table name from the list below to access a spreadsheet where you can view frequencies for discrete fields from the table. Table descriptions and field definitions are available from the MetaData Report on CDW's SharePoint site, <a href="https://vawww.dwh.cdw.portal.va.gov/metadata/default.aspx">https://vawww.dwh.cdw.portal.va.gov/metadata/default.aspx</a> .												
6	<table border="1"> <thead> <tr> <th>Schema</th> <th>Table</th> <th>Partition Key Date</th> </tr> </thead> <tbody> <tr style="border: 2px solid purple;"> <td>Appt</td> <td><a href="#">Appointment</a></td> <td>AppointmentDateTime</td> </tr> <tr> <td>Appt</td> <td><a href="#">AppointmentMultiple</a></td> <td>AppointmentMadeDate</td> </tr> <tr> <td>Appt</td> <td><a href="#">AppointmentRequest</a></td> <td>AppointmentRequestDate</td> </tr> </tbody> </table>	Schema	Table	Partition Key Date	Appt	<a href="#">Appointment</a>	AppointmentDateTime	Appt	<a href="#">AppointmentMultiple</a>	AppointmentMadeDate	Appt	<a href="#">AppointmentRequest</a>	AppointmentRequestDate
Schema	Table	Partition Key Date											
Appt	<a href="#">Appointment</a>	AppointmentDateTime											
Appt	<a href="#">AppointmentMultiple</a>	AppointmentMadeDate											
Appt	<a href="#">AppointmentRequest</a>	AppointmentRequestDate											
7													
8													
9													
10	<b>Terms Used in this Workbook</b>												
11	<table border="1"> <tbody> <tr> <td>Domain</td> <td>In CDW, the term domain refers to a grouping of tables that all contain information on the same topical area.</td> </tr> <tr> <td>Schema</td> <td>This refers to the organization of data; it is usually depicted as a blueprint of the manner in which the database is constructed. In CDW, the prefix of a table name is also referred to as schema.</td> </tr> <tr> <td>Fact Table</td> <td>Tables that hold substantive data about the topic of interest and include sensitive information</td> </tr> <tr> <td>Partition Key Date</td> <td>The partition key date is a field which is used to subdivide the underlying table into manageable portions for queries. In this workbook, we use partition key date to create the fiscal year</td> </tr> </tbody> </table>	Domain	In CDW, the term domain refers to a grouping of tables that all contain information on the same topical area.	Schema	This refers to the organization of data; it is usually depicted as a blueprint of the manner in which the database is constructed. In CDW, the prefix of a table name is also referred to as schema.	Fact Table	Tables that hold substantive data about the topic of interest and include sensitive information	Partition Key Date	The partition key date is a field which is used to subdivide the underlying table into manageable portions for queries. In this workbook, we use partition key date to create the fiscal year				
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12													
13													
14													

# Column: CancelNoShowCode

## VHA Corporate Data Warehouse (CDW) Appointment 2.0 Domain Discrete Value Frequencies

Table Name: Appointment

Run Date: 04/15/2015

Field Name	Discrete Value	Discrete Value Label	Partition Key Date Missing		FY 2000 (N=59,610,192)		FY 2001 (N=65,324,104)		Fr
			Frequency	Percent	Frequency	Percent	Frequency	Percent	
AppointmentType	ZZPERSIAN GULF		0	0.0	0	0.0	1	0.0	
AppointmentType	ZZSHARING		0	0.0	63	0.0	12	0.0	
AppointmentType	zzFollow Up		0	0.0	0	0.0	0	0.0	
AppointmentType	zzNew Consult		0	0.0	0	0.0	0	0.0	
CancelNoShowCode	Blank	Blank	86	94.5	33,552,054	56.3	38,217,770	58.5	41
CancelNoShowCode	*Missing*	Missing	1	1.1	0	0.0	0	0.0	
CancelNoShowCode	*Unknown at this time*	Unknown	1	1.1	0	0.0	0	0.0	
CancelNoShowCode	C	Cancelled by Clinic	0	0.0	6,493,663	10.9	7,547,016	11.6	8
CancelNoShowCode	CA	Cancelled by Clinic & Auto	0	0.0	1,044,775	1.8	1,063,069	1.6	1
CancelNoShowCode	I	Inpatient Appointment	0	0.0	3,509,856	5.9	3,208,539	4.9	3
CancelNoShowCode	N	No-Show	2	2.2	4,716,178	7.9	5,086,775	7.8	5
CancelNoShowCode	NA	No-Show & Auto re-Book	0	0.0	223,328	0.4	165,475	0.3	
CancelNoShowCode	NT	No Action Taken	0	0.0	4,109,663	6.9	3,208,003	4.9	2
CancelNoShowCode	PC	Cancelled by Patient	1	1.1	5,760,175	9.7	6,639,169	10.2	7
CancelNoShowCode	PCA	Cancelled by Patient & Auto	0	0.0	200,500	0.3	188,288	0.3	
CancelNoShowCode	X	Not a Valid Entry	0	0.0	0	0.0	0	0.0	
CancellationReason	*Missing*		89	97.8	48,102,015	80.7	52,136,693	79.8	55

# Record & Null Counts

## Record & Null Counts

This resource provides record counts, null counts, and percents for fact tables domains.

Domain	Released	Counts
Allergy 1.0	2015/06	
Appointment 2.0	2015/06	
Consult 2.1	2015/06	
CPROrder 1.0	2015/06	
Dental 1.0 - Dental	2015/06	
Dental 1.0 - Dental Analytics	2015/06	
Encounter 1.0	2015/06	
HealthFactor 1.0	2015/06	
Immunization 2.0	2015/06	
Inpatient 2.1 - Inpatient	2015/06	
Inpatient 2.0 - Inpatient Census		
Inpatient 2.0 - Inpatient Fee Basis & Lodger		
Lab Microbiology 1.0		
LabChem 2.0		

	A	B	C	D
	<b>VIREC VHA Corporate Data Warehouse (CDW) Inpatient 2.1 Inpatient Domain Record &amp; Null Counts</b>			
1				
2	<b>About This Workbook</b>			
3	This workbook provides record counts, null counts, and percentages for data included in the Corporate Data Warehouse (CDW) Inpatient 2.1 Inpatient domain fact tables. The information is presented by fiscal year based on the Partition Date field in each table. Data are presented for the fiscal years available. This varies by table.			
4				
5	Select a table name from the list below to access a spreadsheet to view the counts. Table descriptions and field definitions are available from the MetaData Report on CDW's SharePoint site, <a href="https://vaww.dwh.cdw.portal.va.gov/metadata/default.aspx">https://vaww.dwh.cdw.portal.va.gov/metadata/default.aspx</a> .			
6	<b>Schema</b>	<b>Table</b>	<b>Partition Date</b>	
7	Inpat	<a href="#">Inpatient</a>	DischargeDateTime	
8	Inpat	<a href="#">Inpatient50Multiple</a>	SpecialtyTransferDateTime	
9	Inpat	<a href="#">Inpatient535Multiple</a>	PatientTransferDateTime	
10	Inpat	<a href="#">InpatientCPTProcedure</a>	CPTProcedureDateTime	
11	Inpat	<a href="#">InpatientDiagnosis</a>	DischargeDateTime	
12	Inpat	<a href="#">InpatientDischargeDiagnosis</a>	DischargeDateTime	

# Null Count for DischargeFromService

	A	Z	AA	AB	AC	AD	AE	AF	AG	AH	AI
1	VHA Corporate Data Warehouse										
2	Table Name: Inpatient										
3	Run Date: 03/16/2015										
4	Field Name	FY 2011 (N=770,756)		FY 2012 (N=782,359)		FY 2013 (N=772,690)		FY 2014 (N=778,745)		FY 2015 to Date (N=347,377)	
5		Null Count	Percen t	Null Count	Percen t	Null Count	Percen t	Null Count	Percen t	Null Count	Percen t
39	DischargeFacilityMovementTypeSID	7	0.0	12	0.0	7	0.0	111	0.0	31	0.0
40	DischargeFromFacility	475	0.1	293	0.0	197	0.0	222	0.0	2,842	0.8
41	DischargeFromFacilitySuffix	613,317	79.6	628,485	80.3	620,937	80.4	630,980	81.0	282,807	81.4
42	DischargeFromService	2,416	0.3	2,134	0.3	2,012	0.3	2,028	0.3	820	0.2
43	DischargeFromSpecialtySID	0	0.0	0	0.0	0	0.0	1	0.0	0	0.0
44	DischargeLastEditedByStaffSID	7	0.0	12	0.0	7	0.0	111	0.0	31	0.0
45	DischargeLastEditedOnDateTime	2,618	0.3	2,456	0.3	2,334	0.3	2,696	0.3	1,492	0.4
46	DischargeMASMovementTypeSID	7	0.0	12	0.0	7	0.0	111	0.0	31	0.0
47	DischargePsychFunctional	672,811	87.3	684,247	87.5	677,968	87.7	685,384	88.0	308,874	88.9
48	DischargePsychHighLevel	672,811	87.3	684,246	87.5	677,968	87.7	685,384	88.0	308,874	88.9
49	DischargePsychSeverity	672,809	87.3	684,246	87.5	677,966	87.7	685,380	88.0	308,871	88.9

http://vaww.virec.research.va.gov/

## VA INFORMATION RESOURCE CENTER (VIREC)

VIREC Home  
VA/CMS Home  
About Us  
New Users of VA Data  
FAQs  
Acronyms  
HelpDesk



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[Upcoming Cyberseminars](#)

[Real SSN Data Request Process](#)

[VA REDCap Project](#)

[Data Tip of the Month](#)

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### New from VIREC

#### [Open Positions at VIREC](#)

VIREC is recruiting for two positions in our Data Knowledge area

- [Associate Director for Research](#)
- [Social Science Analyst](#)

#### [ICD-10 Information for Researchers](#)

Learn how the ICD-10 transition affects select datasets commonly used by the research community.

#### [Race & Ethnicity Data](#)

Learn about data sources containing race and ethnicity data elements.

#### [ED & Urgent Care Encounters Data](#)

Learn about data sources containing ED and urgent care encounters data.

### VIREC Resources

[Working with VA Data:](#) Guide to VA data sources, topics, and tools.

[VA/CMS Data for Research Project:](#) Data custodian for CMS and USRDS data for VA research.

[Factbooks:](#) Describe tables, columns, and values in select CDW Domains.

[Research User Guides:](#) Detailed information on select data sources, including variable descriptions.

[The Researcher's Notebook:](#) Practical information on using data from researchers in the field.

[Data Reports:](#) Technical reports, data investigations, and data quality



# Researcher's Notebooks

## Current Issues

#	Notebook	Author	Released	View PDF
7	Identifying the most recent marital status in CDW	Gonsoulin, M Ramanathan, D	2016/06	
6	Using SQL to "Sort Out" Race in CDW	Gonsoulin, M	2016/05	
5	Are all members of my cohort Veterans?	Gonsoulin, M Cao, L	2015/10	
4	How do I access SQL database files in VHA's Corporate Data Warehouse using SPSS?	Fant, G Gonsoulin, M	2015/03	
3	How do I identify the bed sections for my inpatient cohort?	Ouellette, I Stolzmann, K	2015/03	
2	How do I identify a resistant organism in CDW Lab Microbiology?	Evans, C Poggensee, L Ramanathan, S	2014/11	
1	How do I identify the causative organism in CDW Lab Microbiology?	Evans, C Poggensee, L Ramanathan, S	2014/09	

# The Researcher's Notebook

## Using SQL to “Sort Out” Race in CDW

*A method for cleaning multiple values of race.*

### Introduction

The VHA captures race data in the VistA Patient (#2) file. There are two fields in the Patient (#2) file that contain race information. Initially, a patient could only specify one race value. The VHA later made a modification to the Patient (#2) file that allowed a patient to specify multiple race values. The VHA later established standardized race values. In addition, categories used to determine race were updated over time. In 2003, the VA began collecting race and ethnicity data using categories established by the Office of Management and Budget (OMB) Statistical Policy Directive No. 15, *Race and Ethnicity Statistics and Administrative Reporting, 1997 Revisions*. These values are referred to as “OMB race values”.

In the VHA’s Corporate Data Warehouse (CDW), there are two main tables for race data: PATIENTRACE and PATSUBPATIENTRACE (store patients who are seen in the VA; they include PatSub.PatientRace (store

### Step 4 | Using Dim.Race to Break Ties or Populate Missing Values

```
/*-----  
JOINING THE MOST COMMON RACE VALUE WITH DIM.RACE
```

The first query recodes the values of race found in Dim.Race according to the categories established in the data quality reports listed in the resources section of this notebook.

The second query joins the recoded race values to patientICN.

The third query looks for the most common (non-null) value of race associated with each patient. This code does not break ties; in the case of a tie, the values of race would be returned in alphabetical order. You may choose to break potential ties using the logic similar to the code above.

The fourth query selects the value of race found in the first row of each patient’s race data.

```
--Recoding race values found in Dim.Race.  
SELECT Race, RaceSID,  
       CASE  
         WHEN Race like 'Amer%' THEN 'AMERICAN INDIAN OR ALASKA NATIVE'  
         WHEN Race like 'Asian' THEN 'ASIAN'  
         WHEN Race like 'Black%' THEN 'BLACK OR AFRICAN AMERICAN'  
         WHEN Race like 'Hispanic Black' THEN 'BLACK OR AFRICAN AMERICAN'  
         WHEN Race like 'Hispanic Black' THEN 'BLACK OR AFRICAN AMERICAN'
```

## 4 Documentation Sites for Production Domains

We will explore 4 main sites housing information:

1. VA Information Resource Center (VIReC)
2. CDW SharePoint 
3. Data Architecture Repository (DAR)
4. VHA Data Portal

## 2. CDW SharePoint

- A user can find information for all of the domains:
  - Table contents
  - VHA data origins
  - Linking keys
  - Data formats



**BISL**

# CDW Home

Site Contents

## NEW TO CDW?

Are you getting started with the Corporate Data Warehouse (CDW)?

- [Intro and Policies](#)
- [CDW Support](#)
- [CDW Metadata](#)

## WHAT'S IN THE WORKS?

- [General Announce](#)
- [Training Announce](#)
- [CDW Domain Stat \(Excel\)](#)

## EXTERNAL LINKS

- [HSR&D Listserv](#)

## DATA ACCESS

Do you want to get connected to CDW?



# BISL

MetaData Home

CDW Home > MetaData

Libraries

## CDW MetaData

CDW Metadata Wiki

Welcome to the CDW MetaData site, the site that contains information about the metadata for the CDW Data Domain

Metadata Documents

[CDW Metadata Report](#) Information pertaining to the *Meta* and *BaseCamp* views in a CDW database may be found i

Reports - SSRS

Data Sources

### Metadata Documents

Reports

Current View Find a file

Schemas

✓	📁	Name	Modified	Modified By
	📁	Active Directory 1.0	July 22, 2016	Dean, Mark A.
	📁	Allergy 1.0	February 19, 2014	Anderson, Stephen M. (BISL)
	📁	Appointment 2.0	February 19, 2014	Anderson, Stephen M. (BISL)
	📁	Consult 2.1	October 1, 2014	Dean, Mark A.
	📁	Dental 1.0	February 19, 2014	Anderson, Stephen M. (BISL)

VINCI Central

Also, look for domain "release documents" in these folders



<https://vaww.cdw.va.gov/metadata/default.aspx>

# CDW Metadata Report

## CDW Metadata

Contains a grouped list of available CDW ER Diagrams and members.

### ImageDescription

<a href="#">Active Directory 1.0</a>	Image Date: 20 Jul 2016
<a href="#">Allergy 1.0</a>	Image Date: 01 Feb 2014
<a href="#">Appointment 2.2</a>	Image Date: 25 Apr 2016
<a href="#">Consult 2.1</a>	Image Date: 24 Sep 2015
<a href="#">CPRSOrder 1.0</a>	Image Date: 11 Aug 2014
<a href="#">Data Profiling 1.0</a>	Image Date: 21 Feb 2014
<a href="#">Dental 1.0 Diagram 1 of 2</a>	Image Date: 28 Oct 2015
<a href="#">Dental 1.0 Diagram 2 of 2 for Analytics</a>	Image Date: 20 Apr 2016
<a href="#">Dimensions A Through D 7/8/2015</a>	Image Date: 08 Jul 2015
<a href="#">Dimensions E Through K 7/8/2015</a>	Image Date: 08 Jul 2015
<a href="#">Dimensions L Through O 5/4/2016</a>	Image Date: 04 May 2016
<a href="#">Dimensions P Through R 3/7/2016</a>	Image Date: 07 Mar 2016
<a href="#">Dimensions S Through Z 3/7/2016</a>	Image Date: 07 Mar 2016
<a href="#">Dimensions, MRSA</a>	Image Date: 31 Dec 2015

Click the name of the domain to view the ER Diagram

**Or**

Expand the domain tables using the plus sign to the left of the domain name

Keep scrolling to domain of interest

# The Entity Relationship Diagram

⊕ [Inpatient 2.0 Diagram 2 of 3 for Census](#)

Image Date: 06 Oct 2015

⊕ [Inpatient 2.0 Diagram 3 of 3 for Fee Basis & Lodger](#)

Image Date: 17 Feb 2014

⊕ [Inpatient 2.1 Diagram 1 of 3](#)

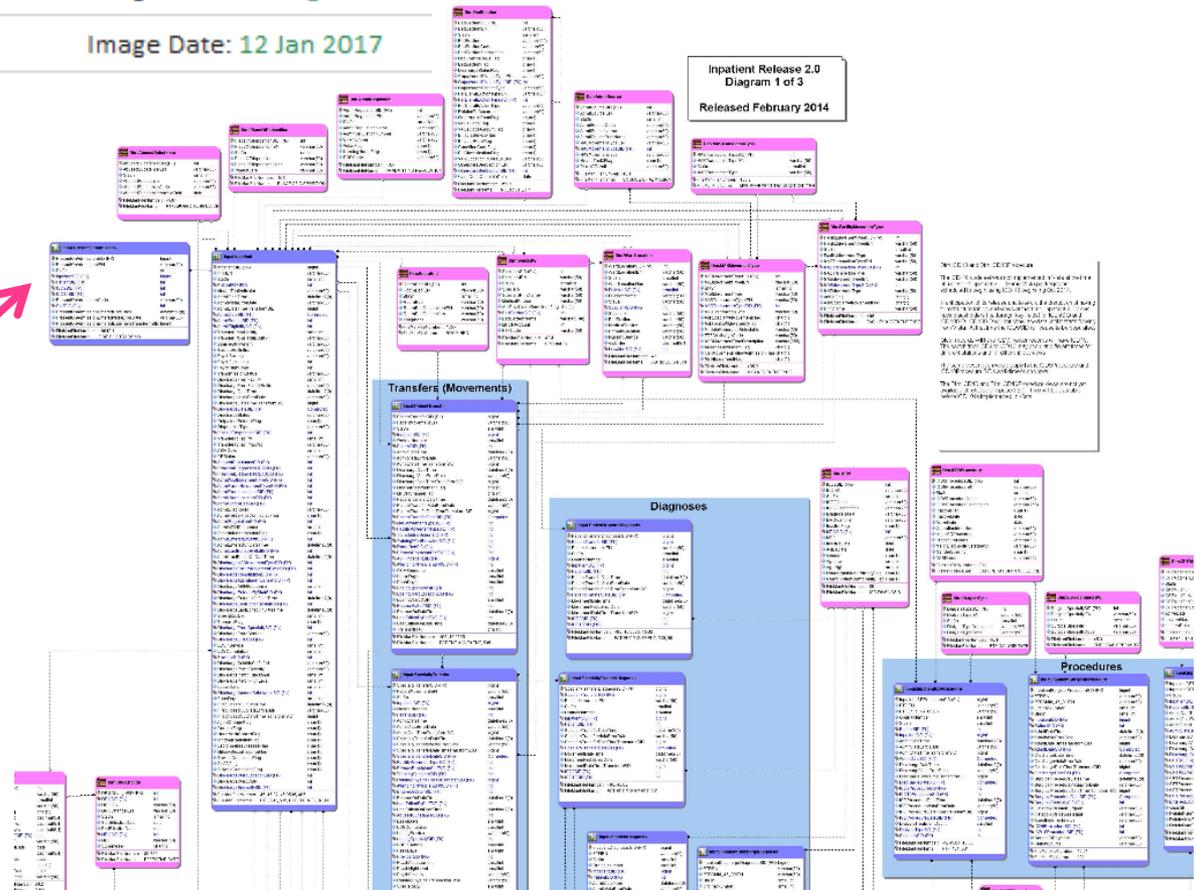
Image Date: 20 Aug 2014

⊕ [Inpatient 3.0](#)

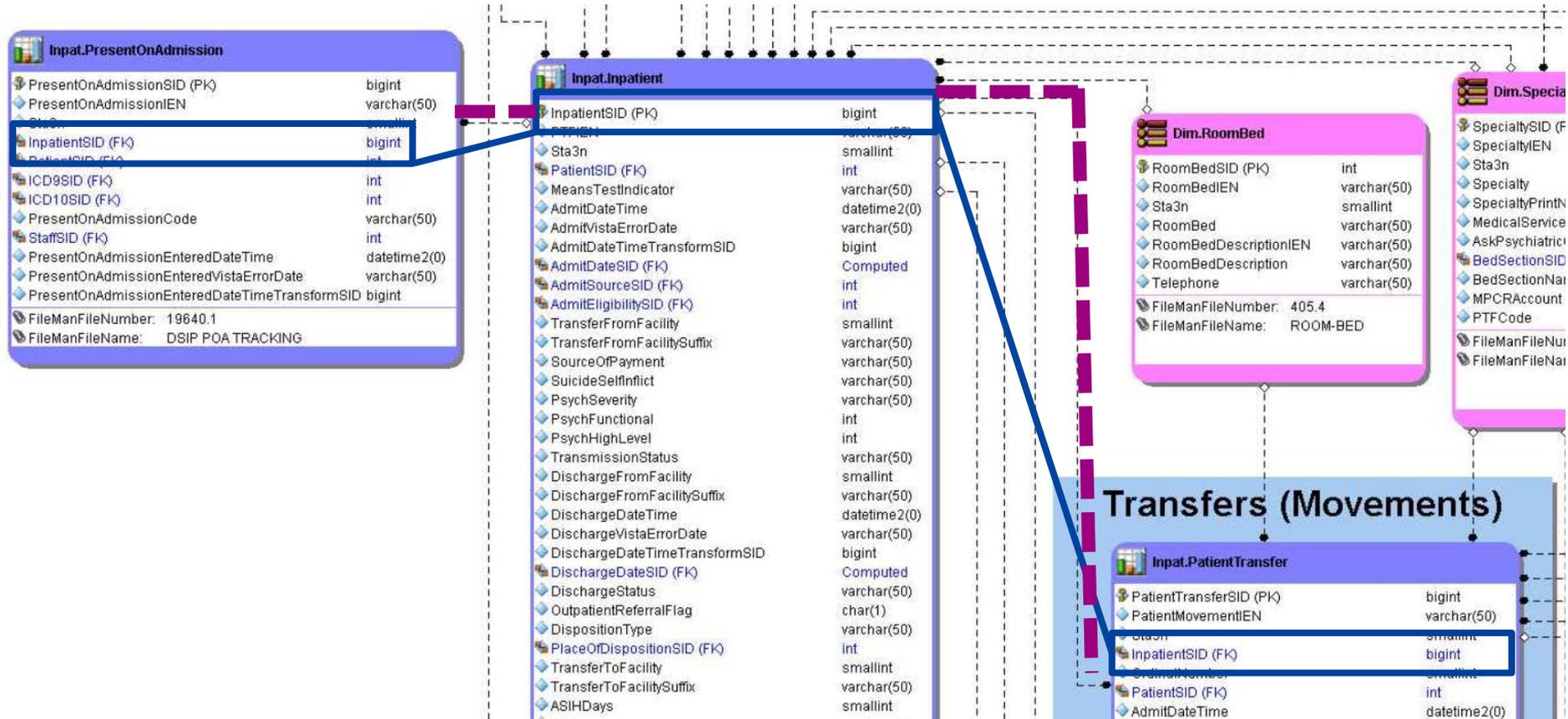
Image Date: 12 Jan 2017

Click the name of the domain to open the ER Diagram

Then, double click image to enlarge



# Tracing connections between tables



# A list of tables in the domain

[Inpatient 2.0 Diagram 2 of 3 for Census](#) Image Date: 06 Oct 2015  
[Inpatient 2.0 Diagram 3 of 3 for Fee Basis & Lodger](#) Image Date: 17 Feb 2014  
[Inpatient 2.1 Diagram 1 of 3](#)

DWViewName	Field Count	FileMan File Data Source	View Version	Relevant Dates	Relatio
<a href="#">Dim.AbusedSubstance</a>	6	PTF ABUSED SUBSTANCE (45.61)	DWViewDeployed: xDWWork View Version: 12		
<a href="#">Dim.AdmitRegulation</a>	9	SOURCE OF ADMISSION (45.1)	DWViewDeployed: xDWWork View Version: 7		
<a href="#">Dim.AdmitSource</a>	11	SOURCE OF ADMISSION (45.1)	DWViewDeployed: xDWWork View Version: 9		
<a href="#">Dim.BedSection</a>	27	MCCR UTILITY (399.1)	DWViewDeployed: xDWWork View Version: 2		
<a href="#">Dim.CPTModifier</a>	10	CPT MODIFIER (81.3)	DWViewDeployed: xDWWork View Version: 7		
<a href="#">Dim.DialysisType</a>	5	PTF DIALYSIS TYPE (45.4)	DWViewDeployed: xDWWork View Version: 8		
<a href="#">Dim.DRG</a>	16	DRG (80.2)	DWViewDeployed: xDWWork View Version: 15		
<a href="#">Dim.DRGChange</a>	10	EFFECTIVE DATE (80.266)	DWViewDeployed: xDWWork View Version: 23		
<a href="#">Dim.FacilityMovementType</a>	13	FACILITY MOVEMENT TYPE (405.1)	DWViewDeployed: xDWWork View Version: 12		
<a href="#">Dim.ICD9</a>	17	ICD DIAGNOSIS (80)	DWViewDeployed: ViewRemoved View Version: 19		
<a href="#">Dim.ICD9Procedure</a>	14	ICD OPERATION/PROCEDURE (80.1)	DWViewDeployed: ViewRemoved View Version: 13		
<a href="#">Dim.MASMovementType</a>	15	MAS MOVEMENT TYPE (405.2)	DWViewDeployed: xDWWork View Version: 11		

Click on  
plus sign to  
expand

List of  
tables in  
this domain

Source of  
the data in  
this table

List of  
joining keys  
to other  
tables

# Finding the column description

<a href="#">Dim.Specialty</a>	11	SPECIALTY (42.4)
<a href="#">Dim.SurgicalSpecialty</a>	5	SURGICAL SPECIALTY (45.3)
<a href="#">Dim.WardLocation</a>	15	WARD LOCATION (42)
<a href="#">Inpat.Inpatient</a>	89	PTF (45)
<a href="#">Inpat.Inpatient501Multiple</a>	34	501 (45.02)
<a href="#">Inpat.Inpatient535Multiple</a>	20	535 (45.0535)
<a href="#">Inpat.InpatientCPTProcedure</a>	25	INPATIENT CPT CODE (46)

Click

60	DWViewName	DWViewFieldName	FieldSequence	DataType
61	Inpat.Inpatient	TransmitFlag	61	char(1)
62	Inpat.Inpatient	DischargeFromSpecialtySID	62	int
63	Inpat.Inpatient	DischargeFromService	63	varchar(50)
64	Inpat.Inpatient	DischargeDRGSID	64	int
65	Inpat.Inpatient	LOSInService	65	smallint
66	Inpat.Inpatient	LOSCumulative	66	smallint
67	Inpat.Inpatient	ProviderSID	67	int
68	Inpat.Inpatient	DischargeSuicideSelfInflict	68	varchar(50)
69	Inpat.Inpatient	DischargeDischargeService	69	varchar(50)

Scroll to column

select column description

# One page column description

<b>DischargeFromService</b> ← <b>ColumnName</b>		
Data lineage for this field as it occurs on the CDW View, <b>Inpatient</b> .		
View Field Name	<b>DischargeFromService</b> ←	The name of the view field.
View Schema	<b>Inpat</b> } <b>CDW View</b>	The schema that contains the view.
View Name	<b>Inpatient</b> }	The name of the view where <i>DischargeFromService</i> is located.
View Version	<b>20</b>	The version of the view that is associated with the published image.
FileMan File Name	<b>501</b> } <b>VistA file and field</b>	A set of related records (or entries) treated as a unit.
FileMan File Number	<b>45.02</b> }	The unique number used to identify a file.
FileMan Field Name	<b>LOSING SERVICE</b> }	In an entry, a specified area used to hold values. The specifications of each VA FileMan field are
FileMan Field Number	<b>21</b> }	The unique number used to identify a field in a file.
FileMan Field Type	<b>FreeText</b>	In VistA, this indicates what types of data are acceptable in the field.
FileMan Location	<b>^DGPT(D0,"M",D1,"P")</b> Piece: 2	VA FileMan stores the data of every file descendent from a single M global array (i.e. from a node) as being stored in the nth ^-piece of a global node.
FileMan Field Description: This field contains the losing service for this episode of care.		

**Description of field  
from VistA's metadata**

## 4 Documentation Sites for Production Domains

We will explore 4 main sites housing information:

1. VA Information Resource Center (VIReC)
2. CDW SharePoint
3. Data Architecture Repository (DAR) ★
4. VHA Data Portal

## 3. Data Architecture Repository (DAR)

- This site serves as a repository for metadata from around the VA.
- It includes metadata for VistA.
- VistA is one of the primary sources of CDW data.
- Referencing these files can help clarify the meaning of CDW data.

# CDW Field without Description? Use DAR!

61	Output.Visit	EligibilitySID	61	int	
----	--------------	----------------	----	-----	---

CDW Home > MetaData > Reports

Actions |  |  |  of 1 |  |  |  Find Next |  | 

## EligibilitySID

Data lineage for this field as it occurs on the CDW View, **Visit**.

View Field Name	EligibilitySID	The name of the view field.
View Schema	Output	The schema that contains the view.
View Name	Visit	The name of the view where <i>EligibilitySID</i> is
View Version	73	The version of the view that is associated v
Related File Name	VISIT	For mapped SIDs, this is the FileMan file n
Related File Number	9000010	For mapped SIDs, this is the FileMan file n
Related Field Name	ELIGIBILITY	For mapped SIDs, this is the FileMan field
Related Field Number	.21	For mapped SIDs, this is the FileMan field

**Vista  
file and  
field**

Report Date: 4/3/2017 9:01:42 AM



# Search VistA Metadata

**VISTA METADATA REPOSITORY (VISTA)**

Home > Search VistA

Home

**Enter file or field name or number and press “Search VistA” & select match**

The Search VistA window provides the ability to search all packages, files, and field names, and descriptions. Additional actions can be performed within the second search window.

9000010 Search VistA Reset

Search Rows 25 Actions

1 - 18 of 18

Src	Name	Description	Parent
File	VISIT {9000010}	-	PCE PATIENT CARE ENCOUNTER
File	V PROVIDER {9000010.06}	-	PCE PATIENT CARE ENCOUNTER
File	V POV {9000010.07}	-	PCE PATIENT CARE ENCOUNTER
File	V IMMUNIZATION {9000010.11}	-	PCE PATIENT CARE ENCOUNTER
File	REMARKS {9000010.1111}	-	PCE PATIENT CARE ENCOUNTER

# VistA File Documentation

Home > Files > File Details

File Details

History Data

File Num	9000010
File Name	VISIT
Description	This file contains a record of all patient outpatient and clinic visits, as well as inpatient visits. The records are maintained by date/time of visit, and the patient name field is a pointer to the IHS Patient file, where the patient must exist before data can be added here. Cross References: ("AA",,,<9's-visit date+time>,IEN)= ("AAH",,,<9's-visit date+time>,IEN)= " set conditional SERVICE CATEGORY = Hospitalization ("ABILL",,, IEN)= "" set conditional to site parameter ("AC",,IEN)= "" ("AD",,IEN)= "" ("ADEL",,,IEN)= "" set conditional DEPENDENT ENTRY COUNT '> 0 ("AI",IEN)= "" set conditional SERVICE CATEGORY = In hospital ("AMRG",,,IEN)= "" ("APCIS",,,IEN)= ""
Owning Package	PCE PATIENT CARE ENCOUNTER
F S F	F S F
Parent File Num	-
Audit Access	-
Data Dictionary Access	@
Delete Access	-
Laygo Access	-
Read Access	-
Write Access	-
Global Reference	^AUPNVISIT(
Special Lookup Routine	-
Post Selection Action	S X="^AUPNVISIT" X ^%ZOSF("TEST") I \$T D:\$G(DUZ("AG"))?1"1"0.1"HS" POSTSLCT^AUPNVISIT

File Number 900010 & Name "Visit" Is part of the "PCE" package

Field Name, Number and Descriptions are listed below

Search Reports 1. Primary Report Rows 50 Actions

1 - 41 of 4

Field Name	Field Num	Data Type	Description	Help Text	File Pointed To Name
VISIT/ADMIT DATE&TIME	.01	DATE/TIME	Type date of visit. Must be between DOB and today. In the VA this reflects the visit appointment and or event date time.	-	-
DATE VISIT CREATED	.02	DATE/TIME	Generated when new visit added to subfile. Date visit added to file. Usually stuffed with	SYSTEM GENERATED	-

# VistA Field Information

Click “pointer” to go to file  
“Eligibility Code” #8

 ELIGIBILITY	.21	 POINTER	Defines the patient's eligibility for this visit. <table border="1"> <tr> <td>               Defines the patient's eligibility for this visit.             </td> <td>               Select the eligibility which best describes the patient's entitlement to care for this visit.             </td> </tr> </table>	Defines the patient's eligibility for this visit.	Select the eligibility which best describes the patient's entitlement to care for this visit.	ELIGIBILITY CODE
Defines the patient's eligibility for this visit.	Select the eligibility which best describes the patient's entitlement to care for this visit.					

**Tip: When there are discrete entries, you can often find labels for values by clicking here to open the page, but this example is a “pointer” (link to another table)**

## 4 Documentation Sites for Production Domains

We will explore 4 main sites housing information:

1. VA Information Resource Center (VIReC)
2. CDW SharePoint
3. Data Architecture Repository (DAR)
4. VHA Data Portal 

## 4. VHA Data Portal

- This site provides:
  - Links to all of the other sites mentioned in this talk
  - Information about how to apply for access to CDW data

# Requesting Data

<http://vaww.vhadataportal.med.va.gov/>

The screenshot shows the VHA Data Portal website. At the top right, there are navigation links for Home, About Us, and Contact. The main header features the Department of Veterans Affairs logo and the text "Department of Veterans Affairs VHA Data Portal". Below the header is a navigation bar with tabs for Data Sources, Data Access, Tools & Applications, Resources, Training, and Policy. The "Data Access" tab is selected, and a dropdown menu is open, listing several options: Data Access Overview, Operations Access, Preparatory to Research Access, Research Access (highlighted in red), Medical Advisory Opinions Access, and Veterans Service Officers Access. A red bracket on the right side of the dropdown menu groups "Operations Access", "Preparatory to Research Access", and "Research Access".

**Welcome to**

The VHA Data Portal provides a comprehensive knowledge base of VA information from multiple sources to support the needs of VA users and researchers. The user experience is designed to be intuitive and easy to use.

**The one-stop-shop**

Our home page design has recently changed to help get you the information you need. Each one of the badges below links to access information and other relevant resources for a particular data use need, or use the new top navigation menu to locate resources by category. [Tell us what you think.](#)

**Select Operations, PTR or Research depending on your work**

**Upcoming Events**

- Mar 23:** Good Data Practices 2018 sessions and additional details [here](#)
- Engagement through Access Operations Collaboration in Evaluation of My HealtheVet** (Turvey, C)
- Mar 21:** [Methodological Issues and Data Decision Substance Use Disorders Intervention in VA's](#) (McCullough, M | Smelson, D)
- Apr 3:** [Assessing Race & Ethnicity](#) (Mor, M)

**VINCI Happy Hour**

# Data Documentation on the Portal



Department of Veterans Affairs  
VHA Data Portal

Data Sources

Data Access

Tools & Applications

Resources

Training

## Welcome to the VHA Data Portal

The VHA Data Portal promotes a knowledge-sharing culture that supports the needs of VHA data users. The Portal integrates information from multiple sources into a single location to promote a comprehensive knowledge base and to facilitate a positive end-user experience.

### The one-stop-shop for data users' needs.

Our home page design has recently changed to help get you the information you need. Each one of the badges below links to access information and other relevant resources for a particular data use need, or use the new top navigation menu to locate

Resources Overview

Data Services

Data Documentation

VA Corporate Databases

Newsletters

Peer Reviewed Publications

Data Reports

Research User Guides

External Data Disclosures

# Data Quality Reports on the Portal

## Data Reports

---

### Data Quality & Utility

#### VHA Data Quality Program Reports

The data quality program provides a range of reports on data-quality related topics, including proactive assessments and special focus analyses.

#### View Reports

##### Death Data

- [CDW Date of Death Analysis and Vital Status File Comparison](#)   
Released July 2013

The purpose of this analysis was to assess the accuracy and completeness of the dates of death in the Corporate Data Warehouse. Dates of death in the VHA Vital Status File were used as the 'gold standard' for assessing accuracy and completeness.

---

##### Emergency Department

- [Comparison of Emergency Department Integrated Software and Outpatient Visit Encounter Data in the Corporate Data Warehouse](#)   
Released July 2013

The main objective of this analysis is to review the differences and similarities between the Outpatient Visit stored in the Corporate Data Warehouse Production and the Emergency Department Integrated Software (EDIS) data stored in CDW Raw.

---

## Poll #2: About You

Which of the following best describes your role in the VA?

- Research Investigator / PI
- Data Manager / Analyst
- Project Coordinator
- Operations
- Other

# Part 2 - Raw Domains



Database Database Team Blog

## Raw Extractor

### CDW RAW

#### Libraries

DBA Team Notebooks

Shared Documents

Database Team Wiki

DBA Team Reports

#### Lists

DBA Team Calendar

#### Discussions

Team Discussion

#### Database Team Blog

#### Recent

#### Site Content

Announcements

Content and Structure Re

Database Team Wiki

DBA Team Calendar

DBA Team Notebooks

DBA Team Reports

DBA Team Tasks

Extraction Schedule

Form Templates

Images

Links

Pages

Reusable Content

Shared Documents

Site Assets

Site Collection Document

Site Collection Images

[What's new in CDW-Raw](#)

[Access Permissions](#)

### National VX130 Domains in CDW-Raw - 3/13/2017 12

All National VX130 data is updated >= 1x/day

Domain	Stakeholders	N
<a href="#">Insurance Capture Buffer - ICB</a> v1 Schema: ICB  since Mar 10, 2016	Lewis.Lindsey@va.gov; Kevin.Dostie@va.gov;	Bi (C)
<a href="#">ViewAlert</a> v1 Schema: ViewAlert  since Apr 19, 2016	Samantha.Wright2@va.gov; Caroline.Goldzweig@va.gov; Phoebe.Wong@va.gov;	P1 A1 (C)
<a href="#">Radiology</a> v1 Schema: Rad Radiology  since Sept, 2016	Timothy.Dove@va.gov; Hamid.Saoudian@va.gov; Mark.Love@va.gov; Joseph.Eccleston@va.gov; Ted.Fletcher@va.gov; Jack.Bates@va.gov; Kathleen.Frisbee@va.gov; Shawn.Hardenbrook@va.gov; Ron.Moody@va.gov; Jason.Ray@va.gov; Christa.Kramer@va.gov; Cheryl.Canody@va.gov; Rebecca.Gandillon@va.gov; Scott.Dingman@va.gov; Jody.Pasell@va.gov; James.Prelarson@va.gov; Than.Erwin@va.gov; Sherrill.Snuggs2@va.gov; Linda.Russell@va.gov;	P1 A1 (C)

### CDW-Raw Extractor Domains in CDW-Raw - 3/13/20

Domain	Stakeholders	
<a href="#">Beneficiary Travel (CBO)</a> v2 Schema: Travel	Kristina.Ebersole@va.gov; Joseph.Erdosmd@va.gov; Paul.Perry@va.gov; Kathleen.Frisbee@va.gov; Francis.Archer@va.gov; Gina.Julian2@va.gov;	— t

Check the CDW SharePoint page for raw domains for the most up-to-date list



<https://vaww.cdw.va.gov/bisl/Database/SitePages/Raw%20Extractor.aspx>

## 2 Documentation Sites for Raw Domains

- We will explore 2 main sites housing information related to our example domain:
  1. CDW SharePoint
  2. Data Architecture Repository (DAR)

# 1. CDW SharePoint - Raw Domains

The screenshot shows the main navigation menu of the CDW SharePoint site. The menu is organized into two columns: COMMUNITY and SUPPORT. The CDW dropdown menu is highlighted, and the 'CDW Raw' option is selected. Two callout boxes provide instructions: 'Hover over CDW in the main menu' and 'Select "CDW Raw"'. The background shows a partial view of the CDW Home page with a list of links under the heading 'Getting started with the Corporate Data Warehouse (CDW)?'.

**COMMUNITY**

- CDW Home
- CDW Governance Board
- CDW Raw
- MetaData
- NDS
- Field Reporting
- VA GIS

**SUPPORT**

- Local Data Access (LSV)
- Announcements
- Training
- BaseCamp
- CDW Insights: Slides
- CDW Insights: Recordings

**WHAT**

- G
- TI
- C (E

**Getting started with the Corporate Data Warehouse (CDW)?**

- [Intro and Policies](#)
- [CDW Support](#)
- [CDW Metadata](#)

<https://vaww.cdw.va.gov/bisl/Database/SitePages/Raw%20Extractor.aspx>

# CDW Raw Reports

Linda.Russell@va.gov;

## CDW-Raw Extractor Domains in CDW-Raw - 2/15/2017 9:25 PM – Steve Martin

Domain	Stakeholders	Schedule	Last Extract	Next Extract	Time	Records/ Space	NDS Privilege	Project Note:
<a href="#">Beneficiary Travel (CBO)</a> v2 Schema: Travel since Dec 2010	<a href="#">Kristina.Ebersole@va.gov</a> ; <a href="#">Joseph.Erdosmd@va.gov</a> ; <a href="#">Paul.Perry@va.gov</a> ; <a href="#">Kathleen.Frisbee@va.gov</a> ; <a href="#">Francis.Archer@va.gov</a> ; <a href="#">Gina.Julian2@va.gov</a> ; <a href="#">Kenneth.Baker2@va.gov</a> ; <a href="#">Joshua.Dancy@va.gov</a> ; <a href="#">Patrick.Champion@va.gov</a> ; <a href="#">Scot.Dingman@va.gov</a> ; <a href="#">Glen.Maney@va.gov</a> ; <a href="#">David.Issel@va.gov</a> ; <a href="#">Linda.Russell@va.gov</a> ; <a href="#">Trina.Avery@va.gov</a> ; <a href="#">Johnathon.CobleHarrison@va.gov</a> ; <a href="#">Matthew.Unger@va.gov</a> ; <a href="#">Tony.Cuagliardo@va.gov</a> ; <a href="#">Aaron.Grinager@va.gov</a> ; <a href="#">Robert.Downs@va.gov</a> ; <a href="#">Mike.Davis2@va.gov</a> ;	Bi-Weekly  Sunday before Payday	FEB 05 2017	FEB 19 2017	15 Hours	129 M recs  35 Gb	Basic  (CDW_Full)	POC: Kristina Eb  Change extracti
<a href="#">Bill Claims (CBO)</a> v6 AKA: Integrated Billing	<a href="#">Peter.Chang1@va.gov</a> ; <a href="#">Kathleen.Frisbee@va.gov</a> ; <a href="#">John.Derderian@va.gov</a> ; <a href="#">Michael.Smereka@va.gov</a> ; <a href="#">Robert.Justus@va.gov</a> ; <a href="#">Cheryl.Strickland@va.gov</a> ;	Quarterly	JAN 13 2017	APR  2017	7 – 10 Days  Plus Closure	2.7 B recs  416 Gb	Privileged  (CDW_SPatient)	Ernesto Castro's the CDW to thei information.

Under the National VX130 table, find the names of the raw domains here.  
 Scroll down to find radiology.

# Oncology Domain Report

<a href="#">Oncology</a> v2 Schema: Oncology since Aug 2013	<a href="#">Monica.Kluger@va.gov</a> ; <a href="#">Teresa.Stevens@va.gov</a> ; <a href="#">Priscilla.Moog@va.gov</a> ; <a href="#">Tina.Gill@va.gov</a> ; <a href="#">Patty.Coke@va.gov</a> ; <a href="#">Joy.Meier@va.gov</a> ; <a href="#">Jan.Carmichael@va.gov</a> ; <a href="#">James.Duvel@va.gov</a> ; <a href="#">Cheryl.Canody@va.gov</a> ; <a href="#">Robert.Woody@va.gov</a> ; <a href="#">Yvonne.Lucero@va.gov</a> ; <a href="#">Michael.Kelley6@va.gov</a> ; <a href="#">Shawn.Loftus@va.gov</a> ; <a href="#">Michal.rose@va.gov</a> ; <a href="#">AparKishor.Ganti@va.gov</a> ; <a href="#">Linda.Russell@va.gov</a> ;	Twice per Month	MAR 26 2017	APR 09 2017	33 Hours	3.6 M recs 4 Gb	Privileged (CDW_SPatient) <i>*Under review*</i>
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Click here

## CDW-Raw Oncology Extracts – v1

3/31/2016 11:49 PM

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To arrive at this report

### Summary

The V16 Cancer Registry project was selected as a finalist in the VHA-wide Innovations Program – they were #9 in the top 25. They are to receive up to \$750K to move this project forward (but we can't spend for IT unless we move it to the 'Cloud')

### Purpose of Data

Helps in the development of **evidence based performance measures**

- Timeliness: Veterans will receive **more timely treatment** and less delays in care

Illustrates specific **cancer costs**, enabling benchmarking and cost comparisons

- Veterans' care will consistently fall within standard treatment guidelines

Helps determine appropriate **MSBA reimbursement levels**

# List of Tables

## ***Oncology Tables***

The following tables are located in the `Oncology` schema of the `Raw10` database on `vhacdwa06`, but they must be accessed through their corresponding views in the `Oncology` schema of the `CDWWork` database on `vhacdwa06`.

5/23/2012 - exec sp\_dir

#	Schema	Table	Count	KBytes	MBytes	GBytes
1	Oncology	oncology_patient_160	982,127	1,282,648	1,252	1
2	Oncology	oncology_primary_165_5	1,001,325	5,951,584	5,812	5

## **Permissions**

- Scroll down to find a list of tables in the domain.
- Notice the names are using the VistA naming traditions.
- The first table in the list is `Oncology_Patient_160`
- That corresponds to VistA file “Oncology Patient” #160

## 2. VistA Documentation in DAR #160

UNITED STATES DEPARTMENT OF VETERANS AFFAIRS  
VISTA METADATA REPOSITORY (VISTA)

The DAR Veterans Health Information Systems and Technology Architecture (Vista) Metadata provides an easy means to access and navigate the metadata describing Veterans VistA Platinum data sets within the December 31, 2016 VistA Platinum image. VistA Platinum is the master version of the computer system maintained by the Standards and Compliance Office within the Office of Information and Technology. As VistA Platinum images are updated, the metadata will be added to the DAR with the identified files. For additional VistA references refer to the VistA Monograph and the VistA Document Library.

A listing of VHA national databases can be found within the DAR VHA Corporate Database Monograph. Some databases are derived from point-of-service generated data and/or data used for program management and are not part of VistA, or included within the DAR VistA Portal.

**How to Find VistA Metadata**

There are several options for searching VistA metadata:

- Use Tabs above to search within packages, files, fields, etc.
- Use the general Search VistA box below to search all packages, files, and field names, and descriptions.
- If you know the package name, you can navigate directly to a specific VistA package with drill down capabilities and fields using the Package Name select-list.
- If you know the file name, you can navigate directly to a specific VistA file with associated field information using the File Name (#) select-list.

General Search:

Package Name:

File Name (#):

Search for file "Oncology Patient"

UNITED STATES DEPARTMENT OF VETERANS AFFAIRS  
VISTA METADATA REPOSITORY (VISTA)

Home Search VistA

The Search VistA window provides the ability to search all packages, files, and field names, and descriptions. Functions and download capabilities on the search results can then be performed within the search results window.

Rows: 25

Select matching file

1 - 1 of 1

Src	Name	Description	Parent
File	ONCOLOGY PATIENT {160}	-	ONCOLOGY

# Examine Content

VISTA METADATA REPOSITORY (VISTA)

Home Packages Files Fields Standard Table Data Cross Refe

Home Files File Details

File Details History Data

File Num	160
File Name	ONCOLOGY PATIENT
Description	Demographic and followup data concerning Oncology patients is stored in this file. (Turno the Primary File). Data is NOT exported with this file, but it is populated on site.
Owning Package	ONCOLOGY
F S	F
Parent File Num	-
Audit Access	-
Data Dictionary Access	-
Delete Access	-
Laygo Access	-
Read Access	-
Write Access	-
Global Reference	^ONCO(160,
Special Lookup Routine	-
Post Selection Action	-

View Vt

Search Reports 1. Primary Report Rows 50 Actions

The fields and their descriptions are here

Field Name	Field Num	Data Type	Description	Help Text	F
NAME	.01	VARIABLE-POINTER	This field identifies the patient by establishing a pointer to either the VA Patient File, or, for non-VA patients, to the Referral File. Enter the patient's name to see if it is already on file. If not, you will need to enter the name, along with other identifiers, into the appropriate file. Contact your MAS representative if you have difficulty entering a new patient into the VA Patient File.	-	-
LAST NAME	.011	COMPUTED	Identifies the last name of the patient. For further information see FORDS page 39.	-	-
FIRST-LAST	.012	COMPUTED	RECORD THE PATIENT'S FIRST AND LAST NAME.	-	-

# Be aware of “non-VistA domains”

<p><a href="#">TMS</a> V3 Schema: TMS since Jun 2014</p> <p><b>NON-VistA extract</b></p>	<p><a href="mailto:Phoebe.Wong@va.gov">Phoebe.Wong@va.gov</a> Kimberly.McMonigal@va.gov; Dylan.Nash@va.gov; Edward.Adu@va.gov; Sharon.McCormick@va.gov; Jeffrey.Henry@va.gov;</p>	<p>Weekly</p> <hr/> <p>Tuesday</p>	
<p><a href="#">Unit Dose</a> v2 Schema: RxUD since Sept 2011</p>	<p><a href="mailto:Richard.Pham@va.gov">Richard.Pham@va.gov</a>; Mike.Wrobel@va.gov; Ron.Freyberg@va.gov; Richard.Schaefer@va.gov; Anders.Westanmo@va.gov; Bruce.Alexander@va.gov; Teresa.Stevens@va.gov; Linda.Russell@va.gov;</p>	<p>Twice per Month</p>	
<p><a href="#">VACAA - Veterans Choice Program Eligibility</a> v2 Schema: vacaa since April 2015</p> <p><b>NON-VistA extract</b></p>	<p><a href="mailto:Debra.Gibson@va.gov">Debra.Gibson@va.gov</a>; Zachary.Fain@va.gov; Gina.Julian2@va.gov; Patrick.Champion@va.gov; Reginald.Ewing@va.gov; Kenneth.Baker2@va.gov; Phoebe.Wong@va.gov; Kimberly.Ramirez@va.gov; Aaron.Grinager@va.gov; Donna.Whitehead@va.gov;</p>	<p>Daily</p> <hr/> <p>Sunday <i>thru</i> Thursday</p>	
<p><a href="#">VATAS</a> v0.1 (beta) Schema: VATAS_Beta since Jan 2016</p> <p><b>NON-VistA extract</b></p>	<p>All Stakeholders of Paid, plus:  <a href="mailto:Quincy.Pence@va.gov">Quincy.Pence@va.gov</a>; vicki.linscombe-coleman@lmco.com; VATASProjectTeam@va.gov; Leroy.Larkins@va.gov; Robert.Mills@va.gov; Neil.Cruz@va.gov; Tony.Nichols@lmco.com; Michael.Reading@lmco.com; Eric.Hernandez3@va.gov; Brian.Huff@va.gov;</p>	<p>on-demand</p>	

# Summary/Conclusion

- Some variety of these sites will prove useful in learning about the CDW content in which you are interested.
- These primary variation are based on whether or not the data is in a production domain or in a raw domain.
- However, there is also endless variety of considerations regarding where and when you find the specific documentation you are seeking.

# Questions?

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708-202-2413

# Real Life - How do I find DXPRIME in CDW?

- From the *MedSAS Inpatient RUG*, you can see:
  - On page 77 , DXPRIME originates in VistA's PTF (#45) file, PRINCIPAL DIAGNOSIS (#79) field
  - On page 74, DXF2-DXF13 originate in VistA's PTF (#45) file, SECONDARY DIAGNOSIS 1-12 (#79.16, 79.17, 79.18, 79.19, 79.201, 79.21, 79.22, 79.23, 79.24, 79.241, 79.242, 79.243) fields.
- Going to the *CDW Inpatient Factbook*, you can see:
  - On page 99 in table Inpat.InpatientDiagnosis, the column OrdinalNumber originates from the same source as DXPRIME and DXF2-DXF13.
- Then, you get the linking keys from CDW's SharePoint (or meta views) to connect to ICD codes. Identify the appropriate linking key to connect to Dim.ICD9 using ICD9SID (pre 10/2015) or Dim.ICD10 using ICD10SID (post 10/1/2015) depending the date of discharge.

# Using SQL Querying Metadata

Once you have basic CDW access, open SSMS and go to the server to which you have been granted access and expand CDWWork.

# Query Meta.DWViewField

The screenshot shows the SQL Server Enterprise Manager interface. On the left is the Object Explorer showing a tree view of the database schema, with 'Meta.DWViewField' selected. The main window displays a SQL query script in a text editor. The script is a T-SQL query that selects the top 1000 rows from the 'Meta.DWViewField' table, filtered by 'DischargeFromService'. The results pane at the bottom shows two rows of data.

```

1  /***** Script for SelectTopNRows command from SSMS *****/
2  SELECT TOP 1000 [DWViewSchema]
3     , [DWViewName]
4     , [ViewVersion]
5     , [DWViewFieldName]
6     , [DWViewFieldTechnicalDescription]
7     , [SourceFileName]
8     , [SourceFileNumber]
9     , [SourceFieldName]
10    , [SourceFieldNumber]
11    , [FieldCodes]
12    , [SourceFieldDescription]
13    , [ERDiagrams]
14    , [RelatedFileNumber]
15    , [RelatedFieldNumber]
16  FROM [CDWork].[Meta].[DWViewField]
17  WHERE DWViewFieldName like 'DischargeFromService' ;

```

	DWViewSchema	DWViewName	ViewVersion	DWViewFieldName	DWViewFi...	SourceFileName	SourceFileNumber	So
1	Inpat	Inpatient	20	DischargeFromService		501	45.02	LC
2	Inpat	Inpatient	27	DischargeFromService		501	45.02	LC