

# Mastering VistA's Data

The VA's Trillion Triple Challenge

## FileMan Query Language

a URI for every type and record

<http://vista.caregraf.org/2-40>

COUNT, SELECT, DESCRIBE

Concept-Aware

Hierarchal,

Graphical

**Any**  
**VistA\***

FMQL

= Private and Secure \*VistA, RPMS, (CHCS)

**Patient**

To and From:  
CCD, HDR, GUI ...

**Institution**

Per Hospital:  
Wards, Drugs, ...

**Know-how**

Mainly Shared:  
VUID/Drug-Drug/  
Lexicon/Templates ...

**System**

Builds, **P**asswords,  
Logs, Interfaces ...

———— **Schema** ————

Schema Numbers

Files	FOIA: <b>2446</b> /3170 WorldVistA: 2394
Fields	<b>863</b> I References 37337 Literals 9534 Enums <b>3530</b> YES/NOs
Concepts OV - FOIA	NDF: <b>17989/22754</b> Lexicon: 65956 - 480053
Reuse	59 types have "zip" 33 "date-entered" 206 "icd diagnosis"
Patient References	44 variations: "patient name", "patient file pointer", "patient", "name", "link to file 2" ...

"Lulu" Numbers

Patients	1646 mix of test and de-identified
Statements	<b>6,146,669 triples</b>
PIKS types	496/321/32/0
CPT/ICD	25/ 13 types reference
Enums	1362 types, 2563 values, 394 YES' 'Order Action': 27425 <b>'Experienced Depressions': 14</b>

How will the VA choose to manage  
thirty years of health-care  
statements?

## Whole VistA Prescription or Careful VLER/NwHIN Selection?

**Name Maps:** (14/29) daysSupply/days supply, doses/medication routes, expires/expiration date, fillsAllowed/of refills, lastFilled/last dispensed date, orderID/placer order, ordered/login date, orderingProvider/provider, pharmacist/finishing person, prescription/rx\_, quantity/qty, routing/mail window, start/issue date, stop/expiration date

**Hard Coded:** (2/29) type, vaType **No sample data:** wbc results, drug allergy indication, head and or neck cancer ...

	VPR	VistA (VSS)	Comment/"Lulu"	VPR Example
1	currentProvider	provider   fill/provider	ALWAYS	code='155' name='PEPPER,TRISH'
5	[facility]	<b>clinic (52/5)</b>	.       .....       ..... Traversal Why not <b>division?</b>	code='055A0' name='MEANINGFUL EAST CAMPUS'
6	fills/fill	refill (52.1), partial (52.2)	If refilled 2 files to one markup	fillDate="3080426" fillRouting="W" releaseDate="3080426" fillQuantity="180" fillDaysSupply="90"
7	<b>fillCost</b>		COMPUTED	value='2.466'
9	<b>fillsRemaining</b>		COMPUTED	value='2'
10	form	pharmacy orderable item (52/39.2)	ALWAYS Traversal	value='TAB'
11	id	IEN+	ALWAYS	value='48R;0'
13	location	clinic (52/5)	.       .....       ..... Traversal	code='24' name='3 SOUTH - TELEMETRY'
14	name	pharmacy orderable item (52/39.2) TRAV	ALWAYS	value='METOPROLOL TARTRATE TAB'
20	products/product	<b>drug (52/6)</b>	ALWAYS Traversal Too much, just like VistA	<product code="3618" name="METOPROLOL TARTRATE 50MG TAB" role="D"> <class code="BETA BLOCKERS/RELATED"/> <vaGeneric code="700" name="METOPROLOL" vuid="4019836"/> <vaProduct code="4055" name="METOPROLOL TARTRATE 50MG TAB" vuid="4004608"/>
23	sig	sig (52/10)   sig1 (52/10.1)	ALWAYS	TAKE ONE TABLET BY MOUTH TWICE A DAY
25	status	<b>status (52/100)</b>	ALWAYS	value='historical'
28	vaStatus	<b>status (52/100)</b>	ALWAYS	value='Expired'

“Successful mitigation is dangerous ... deploying methods once used to resolve smaller, simpler problems to solve larger, more complex issues”  
The Watchman’s Rattle

“I wouldn’t give a fig for the simplicity on this side of complexity; But I would give my life for the simplicity on the other side of complexity.”  
Oliver Wendell Holmes, Jr

2500 Broadway,  
Building F, Suite F-125  
Santa Monica, CA 90404  
<http://www.caregraf.com>

