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

*Patient*

*Institution*

*Know-how*

To and From:

CCD, HDR, GUI ...

Per Hospital: Wards, Drugs, ...

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

Hierarchal, Graphical

***Any***

***VistA****\**

Builds, Passwords, Logs, Interfaces ...

Schema

System

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

*Schema Numbers*

*“Lulu” Numbers*

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

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

|  |  |
| --- | --- |
| Files | FOIA: **2446**/3170  WorldVistA: 2394 |
| Fields | **8631** References  37337 Literals  9534 Enums  **3530** YES/NOs |
| Concepts  OV - FOIA | NDF: **17989/22754**  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" ... |

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] | **clinic (52/5)** | |.||||........|||............  Traversal  Why not **division**? | code='055A0' name='MEANINGFUL EAST CAMPUS' |
| 6 | fills/fill | refill (52.1), par tial (52.2) | If refilled  2 files to one markup | fillDate="3080426" fillRouting="W" releaseDate="3080426" fillQuantity="180" fillDaysSupply="90" |
| 7 | **fillCost** |  | COMPUTED | value='2.466' |
| 9 | **fillsRemaining** |  | COMPUTED | value='2' |
| 10 | form | pharmacy orderable item  (52/39.2) | ALWAYS Traversal | value='TAB' |
| 11 | id | IEN+ | ALWAYS | value='48R;O' |
| 13 | location | clinic (52/5) | |.||||........|||............ | code='24' name='3 SOUTH - TELEMETRY' |
| 14 | name | pharmacy orderable item  (52/39.2) TRAV | ALWAYS | value='METOPROLOL TARTRATE TAB' |
| 20 | products/product | **drug (52/6)** | 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 | **status (52/100)** | ALWAYS | value='historical' |
| 28 | vaStatus | **status (52/100)** | 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

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