Kamioka

Query DSL Cheat Sheet

v.1 for Kamioka v.1.1

Building Blocks

```
Query
```

```
Expression
```

| Field | Comparison Operator | Typed Value |
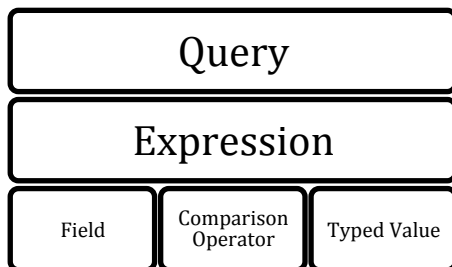
Field Data Types

Type	Legal Values
Integer	[0-9999]
Date	YYYY-MM-DDTHH:MM:SSZ
String	ASCII characters except single and double quotes. Value must be inside a set of quotes

Binary Operators

Operator	Definition
&	Logical AND
|	Logical OR

Comparison Operators

Operator	Definition
>	greater than
<	less than
=	equal to

Modifiers

Applied by placing a colon (:) and then the modifier name immediately after one of the specified field names.

Modifier	Valid Field(s)	Behavior
nochildren	rxnorm, icd10, snomed	Filter by exact code. Do not expand

Precedence

Precedence is left-to-right. Precedence may be specified using parenthesis (see example 2).

Expressions

Field	Comparison Operator(s)	Value Type
age_at_event	>, <	Integer
age_now	>, <	Integer
document_created_at	>, <	Date
document_extension	=	String
document_root	=	String
document_type	=	String
document_type_of_service	=	String
facility	=	String
gender	=	String
literal	=	String
patient_extension	=	String
patient_root	=	String
rxnorm	=	String
snomed	=	String
icd10	=	String
document_subject_matter_domain	=	String

Example Queries

1. Search for instances of 'diabetes' where the patient would be 80+ years of age currently

```
literal='diabetes' & age_now > 80
```

2. Search for instances of 'tumor' in service line 'Radiology' with female patient

```
literal="tumor" & document_root =
"Radiology" & (gender = "female" | gender
= "F")
```

3. Search where the patient was between 25 and 30 years old relative to the document

```
age_at_event > 25 & age_at_event < 30
```

4. Filter by recent documents for a particular patient

```
patient_root = 'MEDIPAC.MRN.OID' &
patient_extension = 'ABCD-1234' &
document_created_at >
2017-06-30T00:00:00Z
```

5. Filter by mentions of Carcinoma's of the prostate for a lower risk demographic

```
snomed = '254900004' & age_at_event < 50
```

6. Filter by mentions of exactly Sepsis for a particular hospital

```
snomed:nochildren = '91302008' & facility
= '12345'
```