

Eligibility
Criteria

Example
SQL
Record

Semantic
Metadata
Mapping

Generated
Query

```
lab(CUI: C0362994, LOINC: 777-3, "Platelet count")  
  .num_filter(eq(op(LT), val("250")))
```

(1) Tall Table Structure

patient_id	lab_code_source	lab_code	lab_value
ABC	LNC	777-3	211

```
{  
  "name": "labs",  
  "semantic_mappings": [  
    { "sab": "LOINC", "where": "lab_code_source = 'LNC'" }  
  ],  
  "columns": [  
    {  
      "name": "lab_code_source"  
    },  
    {  
      "name": "lab_code",  
      "semantic_mappings": [  
        { "cui": "C0282503" /* Controlled Vocab. */ }  
      ]  
    },  
    {  
      "name": "lab_value",  
      "semantic_mappings": [  
        { "cui": "C0392762" /* Quant. Value */ }  
      ]  
    }  
  ]  
},
```

```
SELECT patient_id  
FROM labs  
WHERE lab_code_source = 'LNC'  
AND lab_code = '777-3'  
AND lab_value < 250
```

(2) Pivoted Table Structure

patient_id	platelets	hematocrit
ABC	211	38.4

```
{  
  "name": "complete_blood_counts",  
  "columns": [  
    {  
      "name": "platelets",  
      "semantic_mappings": [  
        { "cui": "C0362994" /* Platelet Count */ },  
        { "cui": "C0392762" /* Quant. Value */ }  
      ]  
    },  
    {  
      "name": "hematocrit",  
      "semantic_mappings": [  
        { "cui": "C0366777" /* Hematocrit */ },  
        { "cui": "C0392762" /* Quant. Value */ }  
      ]  
    }  
  ]  
},
```

```
SELECT patient_id  
FROM complete_blood_counts  
WHERE platelets < 250
```