Eligibility Criteria

```
lab(CUI: C0362994, LOINC: 777-3, "Platelet count")
   .num_filter(eq(op(LT), val("200")))
```

(1) Tall Table Structure

patient_id	lab_code_source	lab_code	lab_value
ABC	LNC	777-3	311

(2) Pivoted Table Structure

patient_id	platelets	hematocrit
ABC	235	38.4

Example SQL Record

Semantic Metadata Mapping

```json
{
    "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 */ }
            ]
        }
    ]
},
```

```json
{
    "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 */ }
            ]
        }
    ]
}
```

Generated Query

```sql
SELECT  patient_id
FROM    labs
WHERE   lab_code_source = 'LNC'
        AND lab_code = '777-3'
        AND lab_value < 200
```

```sql
SELECT  patient_id
FROM    complete_blood_counts
WHERE   platelets < 200
```