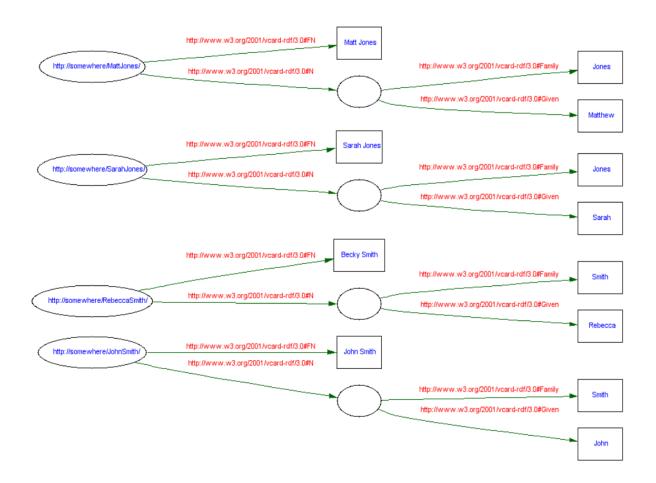
RDF数据:



SELECT ?givenName

WHERE

```
{ ?y <http://www.w3.org/2001/vcard-rdf/3.0#Family> "Smith" . ?y <http://www.w3.org/2001/vcard-rdf/3.0#Given> ?givenName .
```

Prefix

PREFIX vcard: http://www.w3.org/2001/vcard-rdf/3.0#

```
SELECT ?givenName
WHERE
{ ?y vcard:Family "Smith" .
    ?y vcard:Given ?givenName .
}
```

```
givenName

1 "Rebecca"

2 "John"
```

Blank Nodes

空节点: 以 "_:" 开头

PREFIX vcard: http://www.w3.org/2001/vcard-rdf/3.0#

SELECT ?y ?givenName

WHERE

{ ?y vcard:Family "Smith" . ?y vcard:Given ?givenName .

FILTER

过滤掉符合模式但是不想要的结果,选择符合特定标准的数据,运算符如下:

逻辑: &&, ||,!

数学: +, -,*,/

比较: =, ! =, <, >, <=, > =

SPARQL测试: isURI, isBlank, isLiteral, isNumeric, bound

SPARQL访问器: str, lang, datatype

字符串匹配:

FILTER regex(?x, "pattern" [, "flags"]): flags 是 "i" , 忽略大小写

查询名字中包含 "R" 或 "r" 的项:

```
PREFIX vcard: <a href="http://www.w3.org/2001/vcard-rdf/3.0#">http://www.w3.org/2001/vcard-rdf/3.0#</a>
```

```
SELECT ?g
WHERE
{ ?y vcard:Given ?g.
 FILTER regex(?g, "r", "i") }
     givenName
     "Rebecca"
1
2
     "Sarah"
值匹配:
PREFIX info: <a href="http://somewhere/peopleInfo#">http://somewhere/peopleInfo#></a>
SELECT ?resource
WHERE
 {
  ?resource info:age ?age .
  FILTER (?age >= 24)
 }
OPTIONAL
使得当某一项不存在时查询不至于失败
如果组匹配,则扩展解决方案,如果不匹配,则给出原始解决方案
查询获取 name 和 age (仅当age 存在时才获取, age 不存在只获取
name):
PREFIX info: <a href="http://somewhere/peopleInfo#">http://somewhere/peopleInfo#></a>
PREFIX vcard: <a href="http://www.w3.org/2001/vcard-rdf/3.0#">http://www.w3.org/2001/vcard-rdf/3.0#</a>
SELECT ?name ?age
WHERE
{
```

OPTIONAL with FILTER

PREFIX info: http://somewhere/peopleInfo#>

PREFIX vcard: http://www.w3.org/2001/vcard-rdf/3.0#

PREFIX info: http://somewhere/peopleInfo#>

PREFIX vcard: http://www.w3.org/2001/vcard-rdf/3.0#

```
SELECT ?name ?age
WHERE
{
```

```
?person vcard:FN ?name .
OPTIONAL { ?person info:age ?age . }
FILTER ( !bound(?age) || ?age > 24 )
}
```

	name	
1	"John Smith"	"25"^^xsd:integer
2	"Sarah Jones"	
3	"Matt Jones"	

[&]quot;Becky Smith" < 24.

UNION

合并

PREFIX foaf: http://xmlns.com/foaf/0.1/>

PREFIX vCard: http://www.w3.org/2001/vcard-rdf/3.0#

等价:

PREFIX foaf: http://xmlns.com/foaf/0.1/>

PREFIX vCard: http://www.w3.org/2001/vcard-rdf/3.0#

SELECT ?name

"Matt Jones"

```
WHERE
{
 [] ?p ?name
 FILTER (?p = foaf:name || ?p = vCard:FN)
}
记录数据来源
PREFIX foaf: <a href="http://xmlns.com/foaf/0.1/">http://xmlns.com/foaf/0.1/>
PREFIX vCard: <a href="http://www.w3.org/2001/vcard-rdf/3.0#">http://www.w3.org/2001/vcard-rdf/3.0#</a>
SELECT ?name1 ?name2
WHERE
{
 { [] foaf:name ?name1 } UNION { [] vCard:FN ?name2 }
| "Matt Jones" |
| "Sarah Jones" |
| Becky Smith" |
             | "John Smith" |
```

OPTIONAL and UNION

OPTIONAL有助于增加找到的解决方案,UNION有益于从两种可能性中合并解决方案

```
PREFIX foaf: <a href="http://xmlns.com/foaf/0.1/">http://xmlns.com/foaf/0.1/>
PREFIX vCard: <a href="http://www.w3.org/2001/vcard-rdf/3.0#">http://www.w3.org/2001/vcard-rdf/3.0#>

SELECT ?name1 ?name2

WHERE
{
    ?x a foaf:Person
    OPTIONAL { ?x foaf:name ?name1 }
    OPTIONAL { ?x vCard:FN ?name2 }
}
```

ORDER BY

排序

ORDER BY DESC: 降序

DISTINCT

唯一, 去重

OFFSET

查询结果偏移

LIMIT

限制返回结果数量

```
SELECT ?name

WHERE { ?x foaf:name ?name }

ORDER BY ?name

LIMIT 5

OFFSET 10
```