# **XQuery**

a

for \$x in /db/experts/expert where \$x/expertizes/expertize[@topic = /db/topics/topic[name = "XML"]/@id] return \$x/name

## Result

```
<?xml version="1.0" encoding="UTF-8"?>
<name xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">Jacob</name>
<name xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">Oliver</name>
<name xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">John</name</pre>
```

b

for \$x in /db/topics/topic
where \$x/@parent = /db/topics/topic[name = "Computer Science"]/@id
return \$x/name

#### Result

```
<?xml version="1.0" encoding="UTF-8"?>
<name xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">Java</name>
<name xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">XML</name</pre>
```

C

let \$topic\_id := /db/topics/topic[name = "Java"]/@id

for \$x in /db/experts/expert[name = "Oliver"]/recommendations/recommendation where /db/experts/expert[@id = \$x/@recommendee]/expertizes/expertize/@topic = \$topic\_id return /db/experts/expert[@id = \$x/@recommendee]/name

#### Result

```
<?xml version="1.0" encoding="UTF-8"?>
<name xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">Jacob</name</pre>
```

```
d
```

```
let $topic_id := /db/topics/topic[name = "Java"]/@id
```

for \$x in /db/experts/expert[name = "Oliver"]/recommendations/recommendation return

for \$y in /db/experts/expert[@id = \$x/@recommendee]/recommendations/recommendation where /db/experts/expert[@id = \$y/@recommendee]/expertizes/expertize/@topic = \$topic\_id

return /db/experts/expert[@id = \$y/@recommendee]/name

### Result

```
<?xml version="1.0" encoding="UTF-8"?>
<name xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">John</name</pre>
```

е

Can't find any XQuery suitable for this.