

Querying XML

XPath

Querying XML

Not nearly as mature as Querying Relational

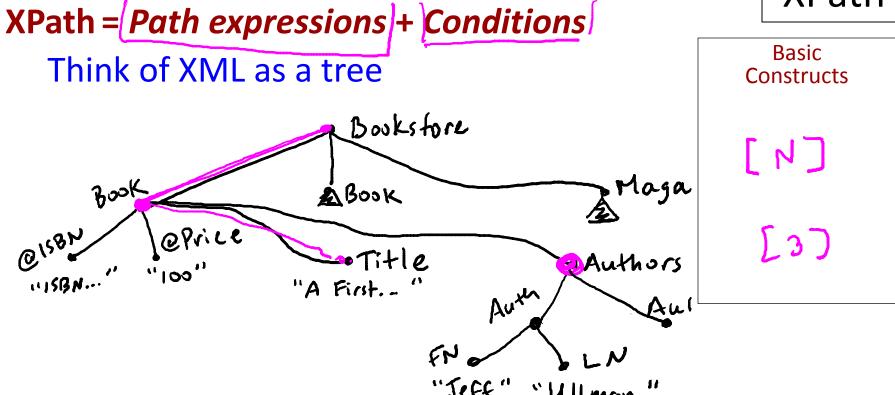
- Newer
- No underlying algebra

Sequence of development

- 1) XPath path expressions + conditions
- 32. XSLT XPath + transformations, output formatting
 - 23. XQuery XPath + full-featured a.L.

XLink, XPointer

XPath



XPath = *Path expressions + Conditions*

Built-in functions (lots of them)

```
contains (51, 52)
namel)
```

Navigation "axes" (13 of them)

```
Parent::

Following-sibling::

descendents::

Self::
```

XPath

More Details

XPath queries operate on & return sequence of elements

- XML document
- XML stream

Sometimes result can be expressed as XML, not always

Demo: XPath examples over bookstore data