Software, Systems and Applications - Advanced Databases

hzwr87

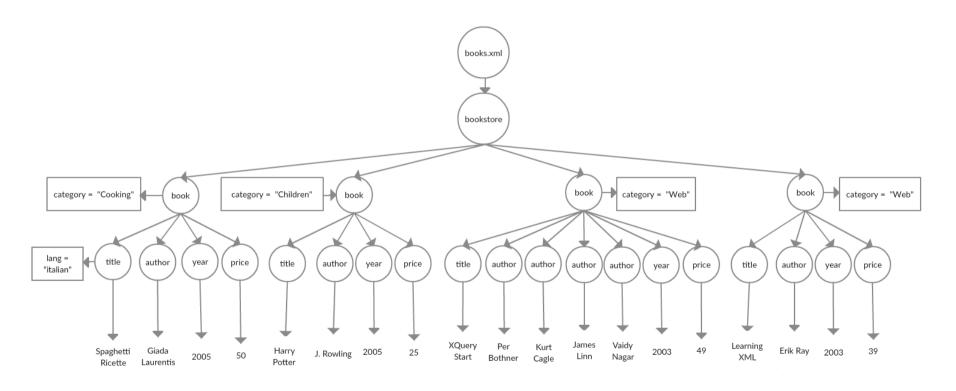


Figure 1: Directed Tree

Select the title nodes of the books that have a price higher than 35

Query

```
/\operatorname{bookstore/book}[\operatorname{price}>35]/\operatorname{title}
```

Result

```
<title lang="italian"> Spaghetti Ricette </title> <title> XQuery Start </title> <title> Learning XML </title>
```

Select the first author of each book with category "Web"

Query

```
/bookstore/book[@category = "Web"]/author[1]
```

Result

```
<author> Per Bothner </author> <author> Erik Ray </author>
```

Find the second author of the books of year 2003 with price more than 40

Query

```
for $i in doc("books.xml")/bookstore/book
where $i/price>40 and $i/year=2003
order by $i/author[2]
return $i/author[2]
```

Result

```
<author> Kurt Cagle </author>
```

Find the authors of all books that have price higher than the average price of the books of year 2005

Query

```
let $average := avg(doc("books.xml")/bookstore/book[year=2005]/price)
for $i in doc("books.xml")/bookstore/book
where $i/price > $average
return $i/author[$i]
```

Result

```
<author> Giada Laurentis </author> <author> Per Bothner </author> <author> Kurt Cagle </author> <author> James Linn </author> <author> Vaidy Nagar </author> <author> Erik Ray </author>
```

Find the book categories that correspond to more than one book

Query

Result

Web