XML Outline

• XML, DTDs

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- Semistructured data in XML
- Exporting Relational Data in XML

Facts About XML

• 132 books at Amazon

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- 875,340 pages at www.altavista.com
- Every database vendor Z has www.Z.com/xml
- Many applications are just fancier Websites
- But, most importantly, XML enables data sharing on the Web hence our interest



























DTDs as Grammars	
db book title author year publisher	<pre>::= (book publisher)* ::= (title,author*,year?) ::= string ::= string ::= string ::= string</pre>
• A DTD • An XMI	is a EBNF (Extended BNF) grammar L tree is precisely a derivation tree
XML Do	cuments that have a DTD and conform to it are called valid $\frac{123:15}{16}$





















Project 1: Indexing patterns An XML-QL pattern: <bib> <book> <author> Abiteboul </author> <title> \$x </title> <year> \$y </year> </hook> </bib> Looking for titles, years of all books published by Abiteboul. Problem: given a large XML file, preprocess it in order to answer quickly any pattern Goal of the project: implement 2-3 simple methods, evaluate and compare them. Notice: Pradeep Shenoy is working on this

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