

Problem Session 4

Project 1 Help

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Outline

- Announcements
- Synopsis of Project 1
- Parser demo
- Tips
- ◆Q&A

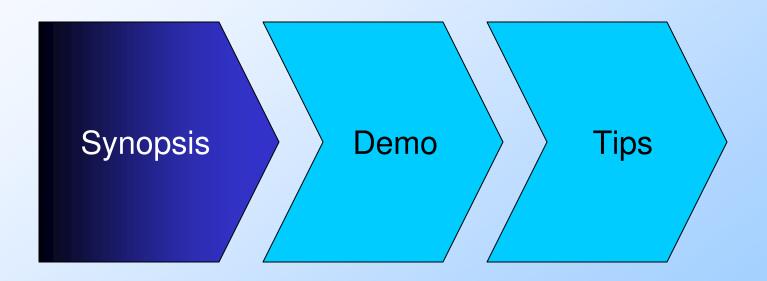


Announcements

- Gradiance two due Wed 10/24
- Challenge Problems #2 due Wed 10/24
- Project 1 due Wed 10/31
- Midterm Wed 10/31 11am-12:15pm Gates B01
 - Up to and including 10/24 lecture on XPath
 - Open notes/book/laptop. Closed Internet.
 - Next problem session = review session



Synopsis of Project 1





3 Steps to Project 1

Plan your tables

Parse XML into tables

Prove everything worked



Plan Your Tables

Sells

Bar	Beer	Price
Joe's Bar	Bud	\$2.50
Joe's Bar	Miller	\$3.00

Input: XML

Output: Table



Parse XML Into Tables

MyParser.java Joe's Bar<>

Joe's Bar<>Bud<>2.50 Joe's Bar<>Miller<>3.00

Input: XML

Output: data file for sqlldr



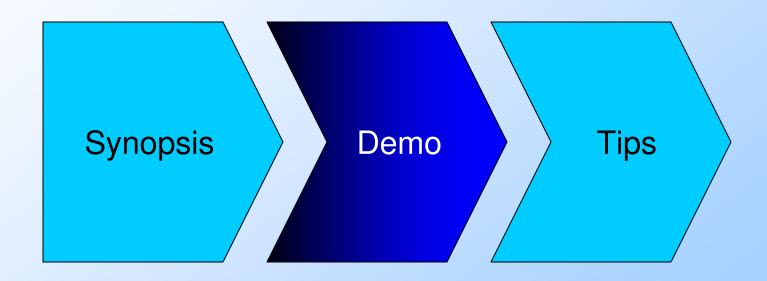
Prove Everything Works

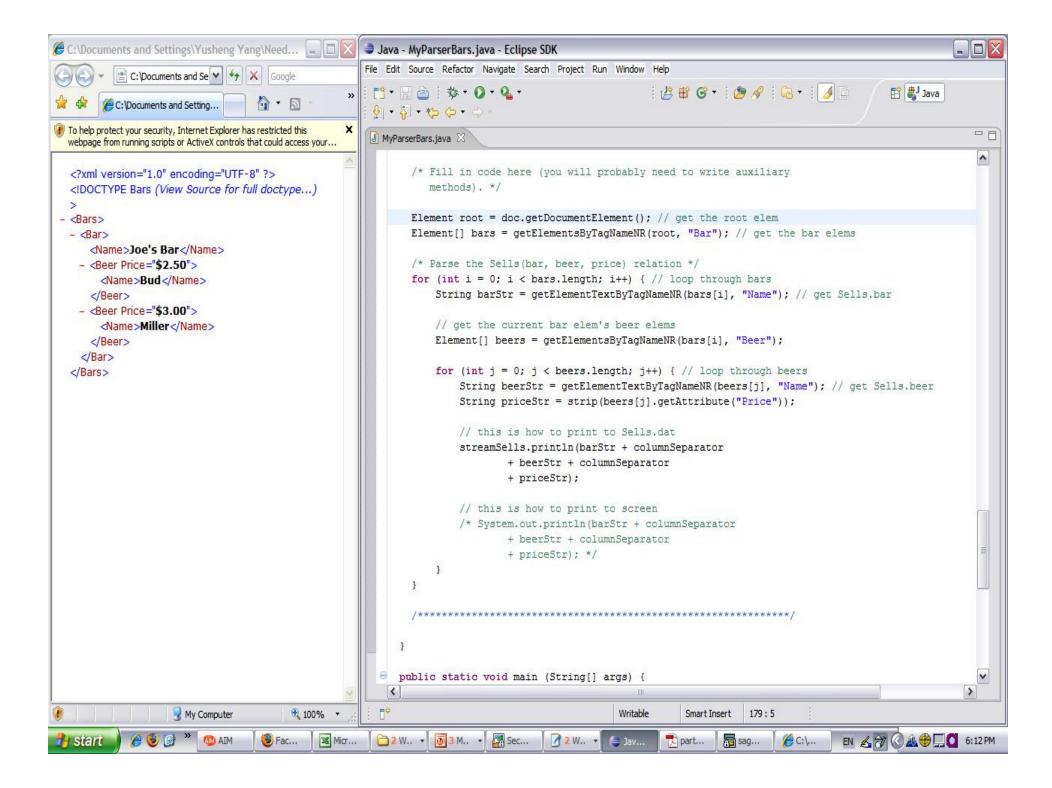
Just like Project 0

- Create table
- •Run sqlldr
- •Query, query, query!



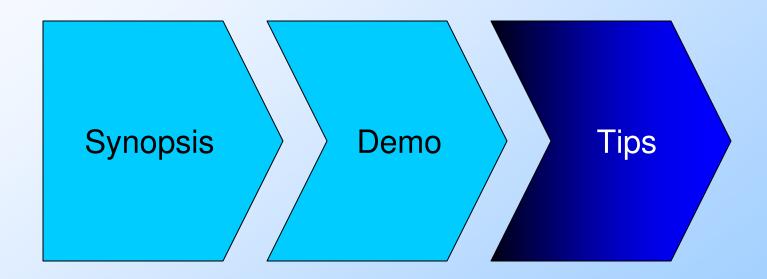
Parser Demo







Tips







Tips

- http://www.w3.org/2003/01/dom2-javadoc/org/w3c/dom/package-summary.html
- No separate user data, must infer from items
 (Users = Bidders + Sellers)
- "<>" is a good column separator.
- Make sure you read and understand items.txt and items.dtd
- Use DATE 'MON-DD-RRRR HH24:MI:SS' for dates in the control file
- Use NUMBER(8,2) for currency columns in CREATE TABLE.



Tips

- Some of the XML elements are optional (identify them in the DTD) and make sure you handle them with care in the parser. (Hint: if no such element exists, getElementByTagNameNR returns null)
- Run your parser on items-0.xml first, verify that it's behaving correctly, then unleash it upon the rest of the data.
- strip() currency data in the parser.



What to Submit

- Your parser source
- Makefile for compiling your parser
- Your .ctl files
- create.sql, drop.sql, queries.sql
- runParser
- README.txt
- Create a .tar file containing the above.
- Please don't submit any binaries or outputs.



Submission Rules

- runParser must ONLY have command(s) that run your parser and generate load files. It must NOT:
- Drop or create tables
- Load data into Oracle
- Run any queries
- runLoad is for your own use, no need to submit it.



How We Test Your Submission

- For each submission, we will:
 - Run your drop.sql & create.sql on our own test database (we won't touch your database)
 - Run your runParser
 - Load the generated load files into our database and ensure no errors occur
 - Run queries.sql on our database
- Repeat for next submission



Q & A

Q: In sqlplus, how do I display all of the tables I've created?

A: SELECT TABLE_NAME FROM USER_TABLES;

Questions?

First: http://www.stanford.edu/class/cs145/project1_faq.html

Second: Coursework Discussion

Last resort: cs145-aut0708-staff@lists.stanford.edu