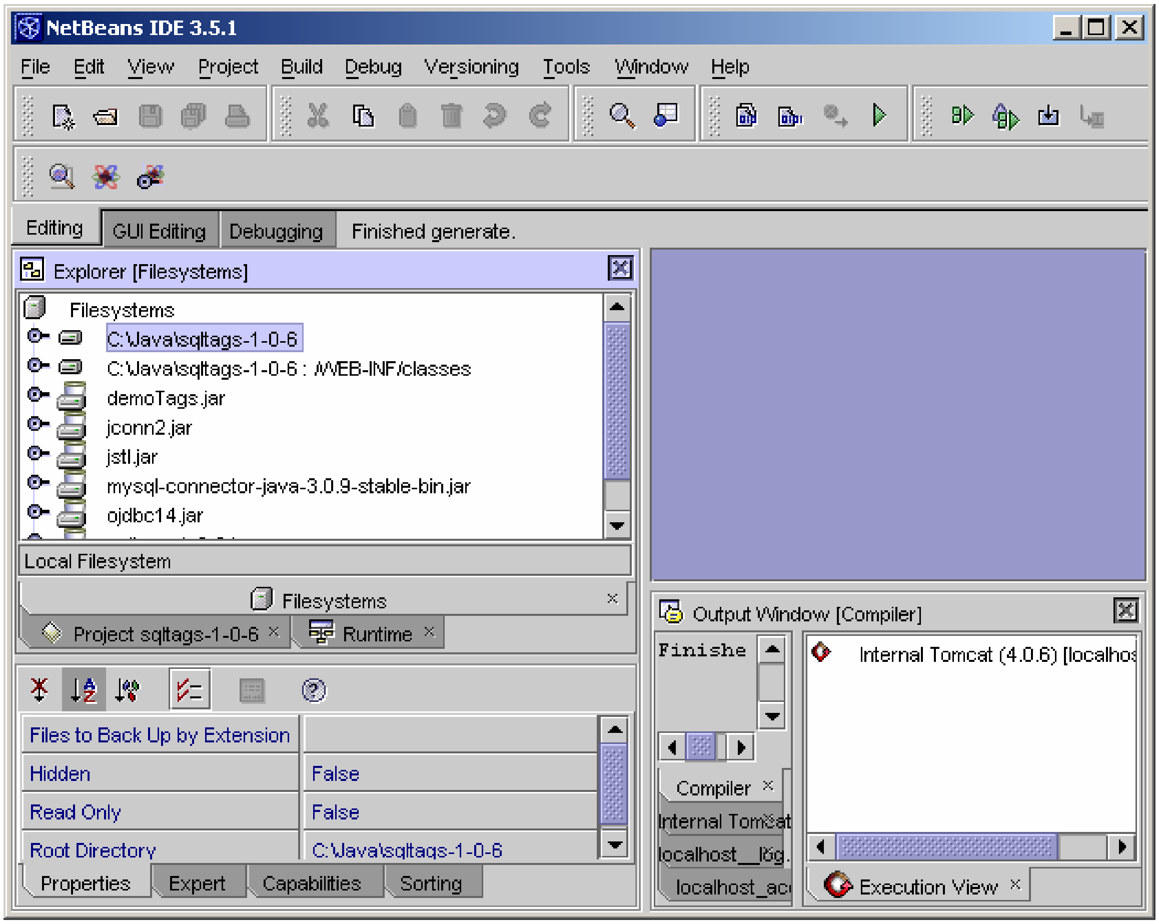
Introduction to SQLTags:
Lab 3—Using the SQLTags Generator

Goal: To run the SQLTags Generator and create a SQLTags JSP tag library.

Prerequisites: Labs 1 and 2.

- Running MySQL database with a “scott” database.
- Java 1.4.2/NetBeans COBOUNDLE installed.

Launch NetBeans and open the “sqltags-1-0-6” project.



Finished generate.

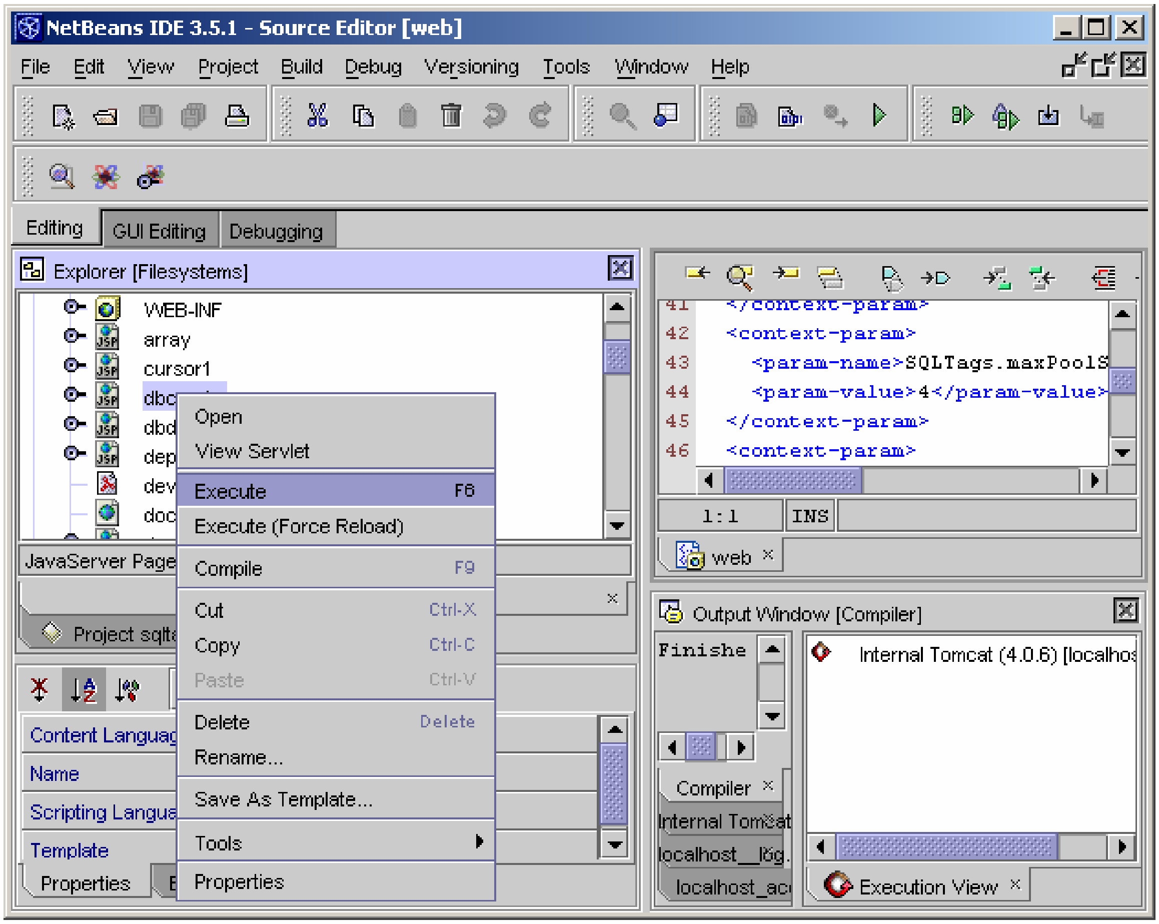
Files to Back Up by Extension	
Hidden	False
Read Only	False
Root Directory	C:\Java\sqltags-1-0-6

Verify the SQLTags “Deployment Descriptor.” ***Note****: no changes to the web.xml file will be required.* Edit the “sqltags-1-0-6/WEB-INF/web.xml” file by double-clicking on the file from the explorer view and verify the following “context-params”:

param-name	**param-value**
SQLTags.databaseDriver	org.gjt.mm.mysql.Driver
SQLTags.connectionUrl	jdbc:mysql://localhost/scott?user=root

SQLTags.userName	root
SQLTags.password	

To setup the “scott” database, right-clicking on the dbcreate file and select “execute.”

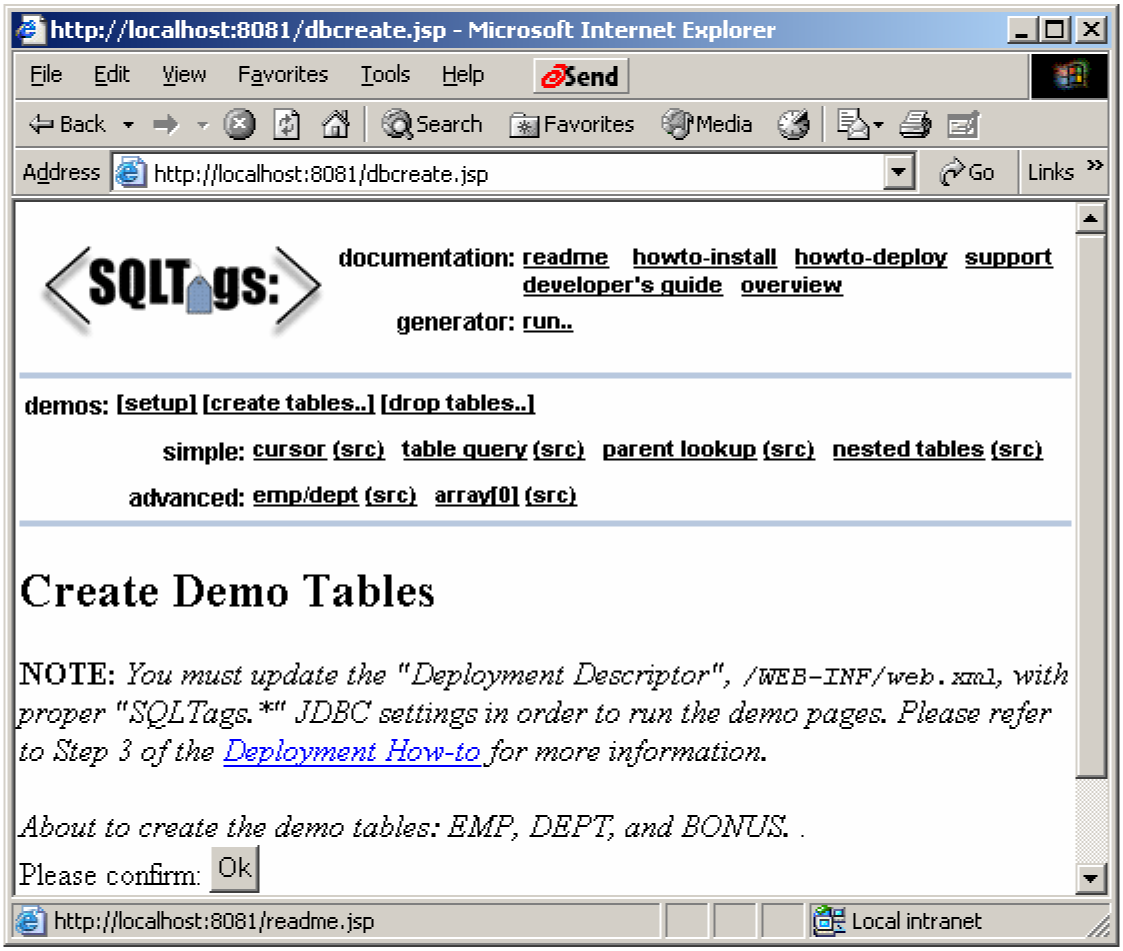


```
</context-param>
<context-param>
  <param-name>SQLTags.maxPoolS
  <param-value>4</param-value>
</context-param>
<context-param>
```

```
Finishe
```

Internal Tomcat (4.0.6) [localhos

NetBeans will compile a few pages, launch tomcat server, and launch a browser window as shown below:


http://localhost:8081/dbcreate.jsp - Microsoft Internet Explorer
File Edit View Favorites Tools Help
Send
Back
Search
Favorites
Media
Address
http://localhost:8081/dbcreate.jsp
Go
Links
SQLTags:
http://localhost:8081/readme.jsp
Local intranet

documentation: readme howto-install howto-deploy support developer's guide overview

generator: run..

demos: [setup] [create tables..] [drop tables..]

simple: cursor (src) table query (src) parent lookup (src) nested tables (src)

advanced: emp/dept (src) array[0] (src)

Create Demo Tables

NOTE: *You must update the "Deployment Descriptor", `/WEB-INF/web.xml`, with proper "SQLTags.*" JDBC settings in order to run the demo pages. Please refer to Step 3 of the Deployment How-to for more information.*

About to create the demo tables: EMP, DEPT, and BONUS. .

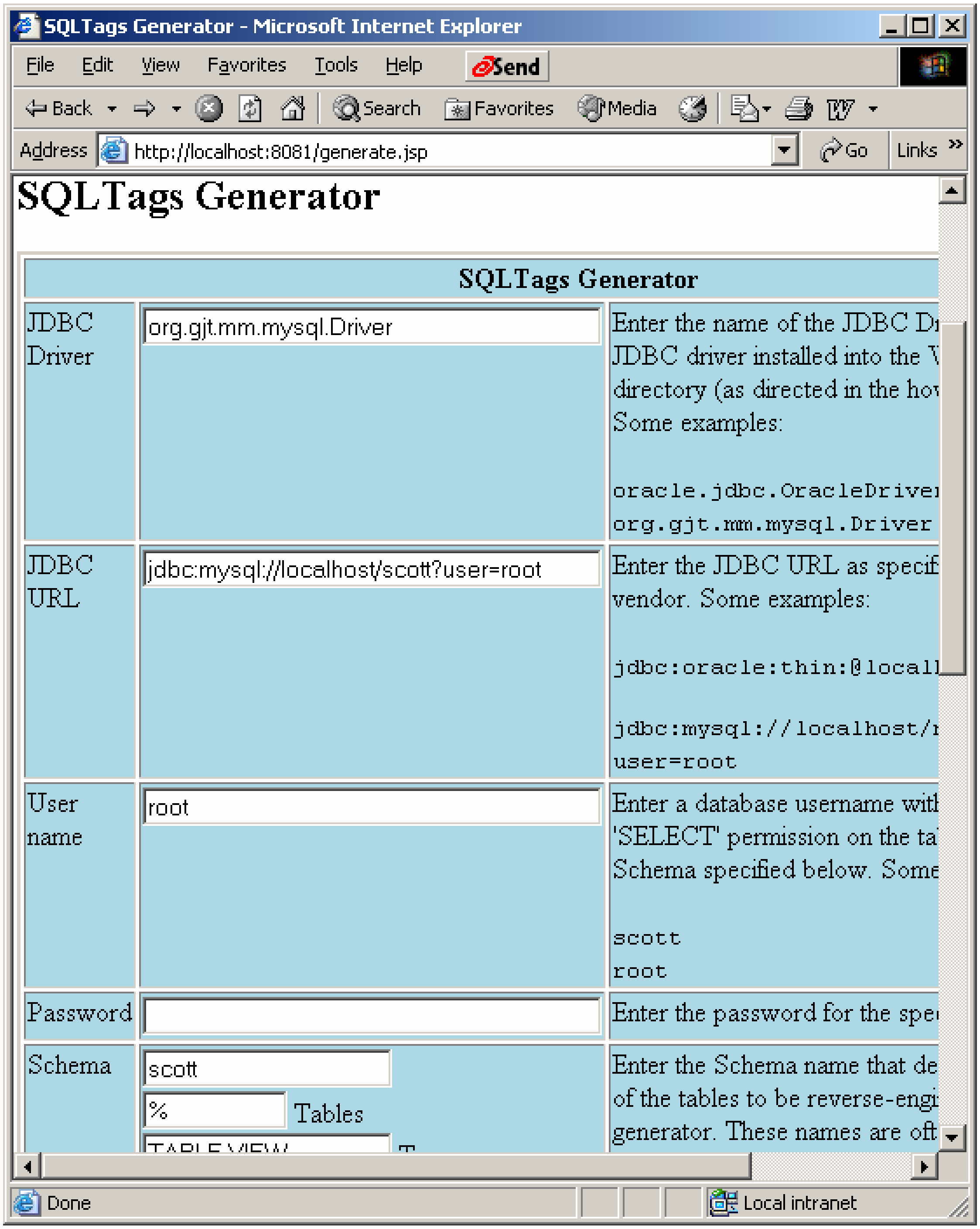
Please confirm: Ok

Click on “Ok” just after the “Please confirm:” prompt in the browser to create and load the demo tables.

At this point, verify that the demo pages are working properly by clicking on any of the “simple” demo pages: cursor, table query, parent lookup, etc.

Now that the data source is setup with tables and data, we can run the SQLTags Generator by clicking on the “run …” link next to the “generator:” prompt.

Fill in the fields according to the table below the screen shot.


SQLTags Generator - Microsoft Internet Explorer
File Edit View Favorites Tools Help Send
Back Search Favorites Media
Address http://localhost:8081/generate.jsp
Go Links
Done
Local intranet

SQLTags Generator

SQLTags Generator		

JDBC Driver	org.gjt.mm.mysql.Driver	Enter the name of the JDBC Dr JDBC driver installed into the \ directory (as directed in the hov Some examples:
		`oracle.jdbc.OracleDrive`
		`org.gjt.mm.mysql.Driver`

JDBC URL	jdbc:mysql://localhost/scott?user=root	Enter the JDBC URL as specif vendor. Some examples:
		`jdbc:oracle:thin:@locall`
		`jdbc:mysql://localhost/r`
		`user=root`

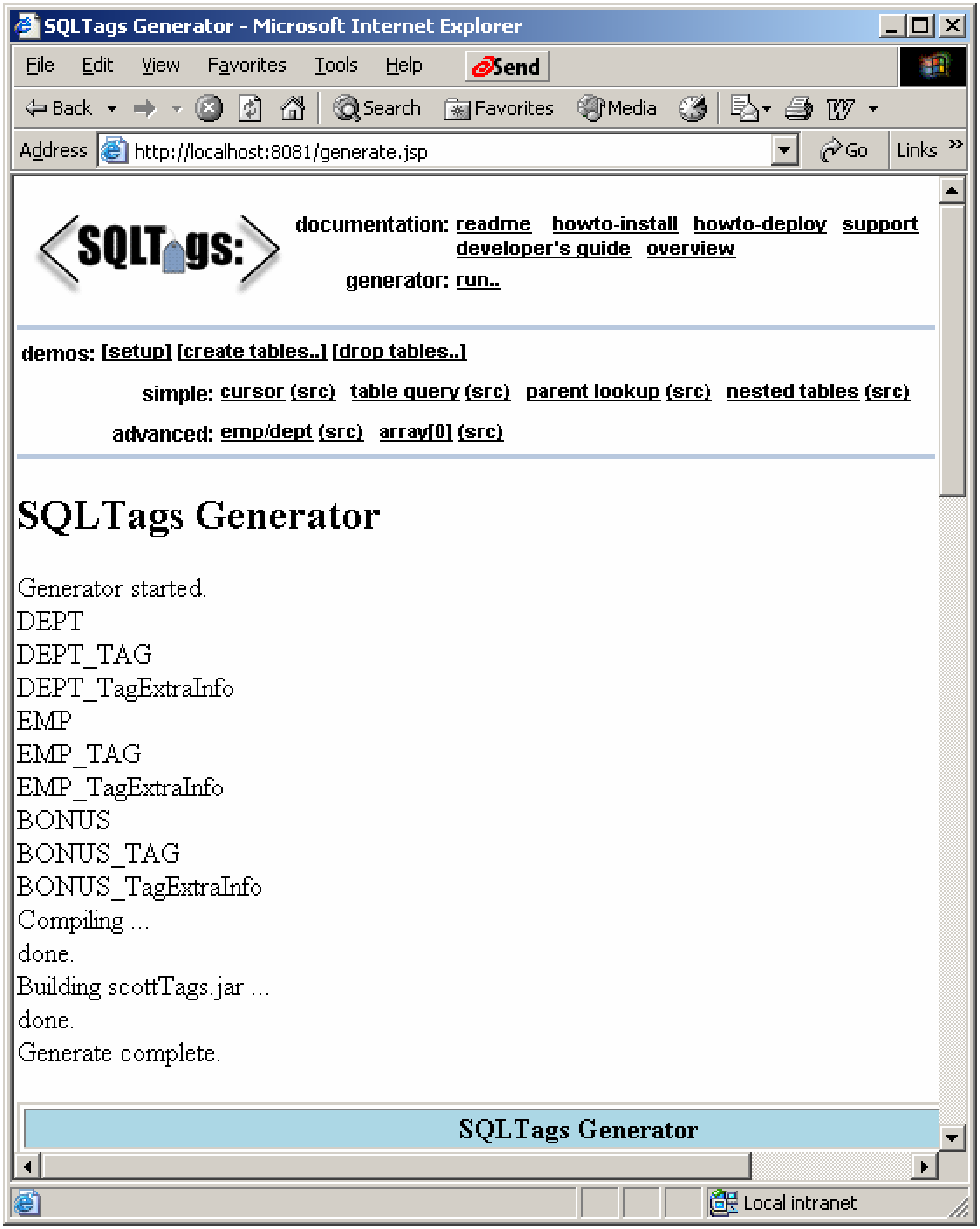
User name	root	Enter a database username witl 'SELECT' permission on the ta Schema specified below. Some
		`scott`
		`root`

Password		Enter the password for the spe
Schema	scott % Tables TABLE,VIEW T	Enter the Schema name that de of the tables to be reverse-engi generator. These names are oft

Generator Inputs:

Input Field	Value
JDBC Driver	org.gjt.mm.mysql.Driver
JDBC URL	jdbc:mysql://localhost/scott?user=root
User name	root
Password	
Schema	scott
Tables	%
Types	TABLE, VIEW
Target Package Name	gov.loc.crs.samples.db
JAR Filename	scottTags.jar
Include built-in Tags	True
Include Source Code	True

Click the “Generate!” button. The SQLTags Generator will connect to the MySQL database as defined by the input fields and the SQLTags tag library based on the database schema.

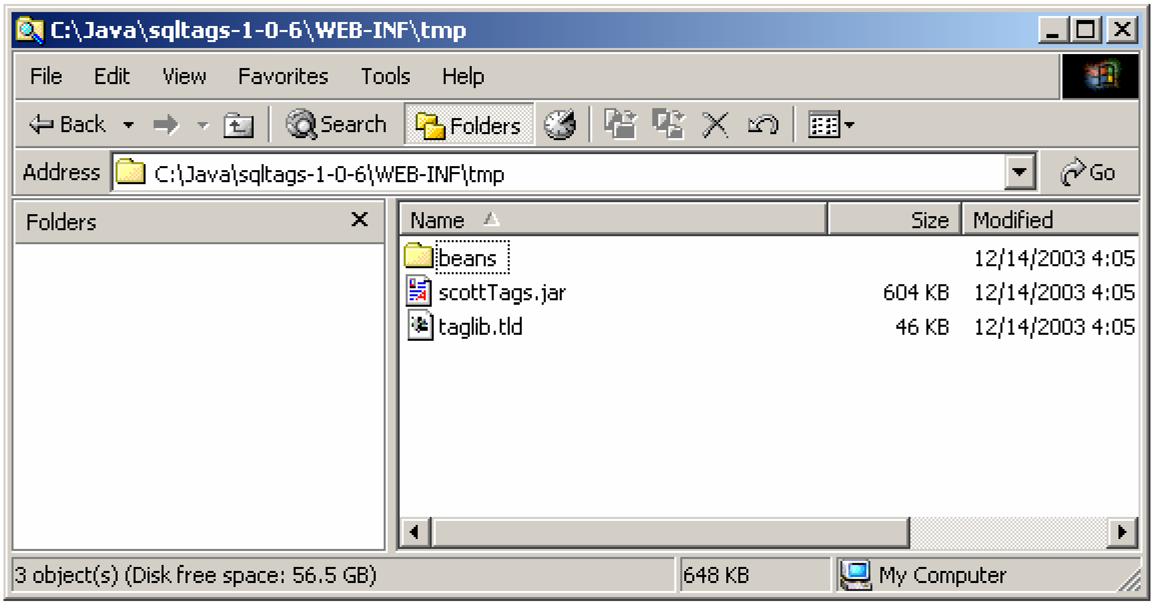

SQLTags Generator - Microsoft Internet Explorer
File Edit View Favorites Tools Help Send
Back Search Favorites Media
Address http://localhost:8081/generate.jsp Go Links
SQLTags:
documentation: readme howto-install howto-deploy support developer's guide overview
generator: run..
demos: [setup] [create tables..] [drop tables..]
simple: cursor (src) table query (src) parent lookup (src) nested tables (src)
advanced: emp/dept (src) array[0] (src)
SQLTags Generator
Local intranet

SQLTags Generator

```
Generator started.
DEPT
DEPT_TAG
DEPT_TagExtraInfo
EMP
EMP_TAG
EMP_TagExtraInfo
BONUS
BONUS_TAG
BONUS_TagExtraInfo
Compiling ...
done.
Building scottTags.jar ...
done.
Generate complete.
```

Well Done! You’ve generated a SQLTags tag library.

Navigate to the "C:\java\sqltags-1-0-6\WEB-INF\tmp" directory using "Windows Explorer" to see the generated files:


C:\Java\sqltags-1-0-6\WEB-INF\tmp
File
Edit
View
Favorites
Tools
Help
Back
Search
Folders
Address
C:\Java\sqltags-1-0-6\WEB-INF\tmp
Go
Folders

Name	Size	Modified
beans		12/14/2003 4:05
scottTags.jar	604 KB	12/14/2003 4:05
taglib.tld	46 KB	12/14/2003 4:05

3 object(s) (Disk free space: 56.5 GB) 648 KB My Computer

The contents of the generated Jar file, scottTags.jar, can be viewed with WinZIP or from the NetBeans IDE. Additionally, the generated Java source code is contained below the "tmp" directory based on the package name provided to the generator.

The scottTags.jar file can now be dropped into any web application by simply coping it into the WEB-INF/lib directory of the target application.

Note: NetBeans will lock all JAR files mounted from WEB-INF/lib so you must copy the generated JAR file into the WEB-INF/lib directory only when NetBeans is not running.

This completes the Generator Lab.