

Re: Updating from PointBase to Derby

Source: <http://coding.derkeiler.com/Archive/Java/comp.lang.java.help/2006-04/msg00831.html>

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 - *Date:* 28 Apr 2006 17:49:11 -0700
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I just ran into the same problem today. The following is what I did to get it to the point where I could create the database and tables. Since that is as far as I have gotten, I have no idea whether or not there are any other changes that may need to be made. In particular, since the type of the 'exact' column in the 'Matched' table changed from boolean to smallint, there may be some other code that has to be updated.

In CaseStudy/Day02/exercise/src/CreateAgency.java:

Redefined string constants:

```
private static final String driver =  
"org.apache.derby.jdbc.ClientDriver";  
private static final String protocol =  
"jdbc:derby://localhost/sun-appserv-samples;create=true";  
private static final String user = "APP";  
private static final String password = "APP";
```

Redefined all the create table statements:

```
s.execute("create table Skill(name varchar(16) CONSTRAINT  
pk_skill PRIMARY KEY, description varchar(64))");  
s.execute("create table Location(name varchar(16)  
CONSTRAINT pk_location PRIMARY KEY, description varchar(64))");  
s.execute("create table Applicant(login varchar(16)  
CONSTRAINT pk_applicant PRIMARY KEY, name varchar(64), email  
varchar(64), summary varchar(512), location varchar(16), CONSTRAINT  
fk_location FOREIGN KEY (location) REFERENCES Location(name))");  
s.execute("create table ApplicantSkill(applicant  
varchar(16), skill varchar(16), CONSTRAINT fk_applicant FOREIGN KEY  
(applicant) REFERENCES Applicant(login), CONSTRAINT fk_skill FOREIGN  
KEY (skill) REFERENCES Skill(name))");  
s.execute("create table Customer(login varchar(16)  
CONSTRAINT pk_customer PRIMARY KEY, name varchar(64), email  
varchar(64), address1 varchar(64), address2 varchar(64))");  
s.execute("create table Job(ref varchar(16), customer  
varchar(16), description varchar(512), location varchar(16), CONSTRAINT  
pk_job PRIMARY KEY (ref,customer), CONSTRAINT fk_customer FOREIGN KEY
```

Re: Updating from PointBase to Derby

```
(customer) REFERENCES Customer(login), CONSTRAINT fk_location_job
FOREIGN KEY (location) REFERENCES Location(name))");
s.execute("create table JobSkill(job varchar(16), customer
varchar(16), skill varchar(16), CONSTRAINT fk_job FOREIGN KEY
(job,customer) REFERENCES Job(ref,customer), CONSTRAINT
fk_skill_jobskill FOREIGN KEY (skill) REFERENCES Skill(name))");
s.execute("create table Matched(applicant varchar(16), job
varchar(16), customer varchar(16), exact smallint, CONSTRAINT
fk_job_matched FOREIGN KEY (job,customer) REFERENCES Job(ref,customer),
CONSTRAINT fk_applicant_matched FOREIGN KEY (applicant) REFERENCES
Applicant(login))");
```

In CaseStudy/Day02/exercise/build.xml:

Changed PointBasePool to DerbyPool

In CaseStudy/common/targets.xml:

Changed all instances of "com.pointbase.jdbc.jdbcUniversalDriver" to
org.apache.derby.jdbc.ClientDriver and all instances of
"jdbc:pointbase:server:" to "jdbc:derby:"