

Database - Bug #2059

CAN-FIND clause for a perm table in the RECORD_PHRASE of a temp table, with a FOR EACH statement

02/26/2013 12:43 PM - Constantin Asofiei

Status:	Closed	Start date:	02/26/2013
Priority:	Normal	Due date:	
Assignee:	Constantin Asofiei	% Done:	100%
Category:		Estimated time:	0.00 hour
Target version:	Conversion Support for Server Features	case_num:	
billable:	No		
vendor_id:	GCD		
Description			

History

#1 - 02/26/2013 12:45 PM - Constantin Asofiei

- Status changed from New to WIP

The following code fails at conversion time:

```
def temp-table wf1 field f1 as int.  
for each wf1 where wf1.f1 > 0 or can-find(person where person.emp-num = wf1.f1) no-lock:  
  
end.
```

EXPRESSION EXECUTION ERROR:

```
-----  
uberref.graft(uberdupref)  
      ^ { java.lang.NullPointerException }  
-----
```

ERROR:
java.lang.RuntimeException: ERROR! Active Rule:

RULE REPORT

Rule Type : ASCENT
Source AST: [record phrase] BLOCK/INNER_BLOCK/KW_FOR/RECORD_PHRASE/ @0:0 {12884901914}
Copy AST : [record phrase] BLOCK/INNER_BLOCK/KW_FOR/RECORD_PHRASE/ @0:0 {12884901914}
Condition : uberref.graft(uberdupref)
Loop : false
--- END RULE REPORT ---

```
at com.goldencode.p2j.pattern.PatternEngine.run (PatternEngine.java:732)  
at com.goldencode.p2j.convert.ConversionDriver.processTrees (ConversionDriver.java:948)  
at com.goldencode.p2j.convert.ConversionDriver.back (ConversionDriver.java:836)  
at com.goldencode.p2j.convert.ConversionDriver.main (ConversionDriver.java:1729)  
Caused by: com.goldencode.expr.ExpressionException: Expression execution error @1:9 [RECORD_PHRASE id=12884901914]  
at com.goldencode.p2j.pattern.AstWalker.walk (AstWalker.java:226)  
at com.goldencode.p2j.pattern.AstWalker.walk (AstWalker.java:160)  
at com.goldencode.p2j.pattern.PatternEngine.apply (PatternEngine.java:1119)  
at com.goldencode.p2j.pattern.PatternEngine.processAst (PatternEngine.java:1017)  
at com.goldencode.p2j.pattern.PatternEngine.run (PatternEngine.java:704)  
... 3 more
```

#2 - 03/03/2013 03:22 PM - Eric Faulhaber

- File `ecf_upd20130303b.zip` added

The attached update is an interim workaround to protect against the NPE so we can get further into conversion. Still working on a proper fix.

This has passed conversion regression testing and is committed to bzd rev. 10236.

#3 - 03/04/2013 03:45 PM - Constantin Asofiei

Eric, your fix in SchemaDictionary I don't think it works for temp-tables, as the following code:

```
def temp-table real      field f1 as char.  
def temp-table conflict field f1 as char.  
def temp-table container field num as int.
```

produces these scopes:

1. the schema global scope, where the emp-num appears twice, in pers-addr and person (OK)
2. the user global scope, which contains only these: {0=null, 1=[conflict, real], 2=[conflict.f1]}. Note how the real.f1 field is omitted.

I think there is a bug for the user global scope, on SchemaDictionary.addEntry:3119. This should be:

```
boolean schemaScope = (scopes.size() - 1 == SCHEMA_GLOBAL_SCOPE) ||  
                      (scopes.size() - 1 == USER_GLOBAL_SCOPE);
```

#4 - 03/04/2013 03:53 PM - Constantin Asofiei

LE: actually, I think the correct test is:

```
boolean schemaScope = (scopes.size() - 1 == SCHEMA_GLOBAL_SCOPE) || globalScope;
```

#5 - 03/04/2013 04:03 PM - Eric Faulhaber

Good point. Actually, the best is probably just to get rid of the schemaScope variable altogether and use the globalScope parameter in its place. I guess that's really what I was trying to accomplish in the first place, but it's been so long since I was in this code.

#6 - 03/12/2013 12:14 PM - Eric Faulhaber

- File `ecf_upd20130312a.zip` added

Fix candidate is attached. I am conversion regression testing this now.

#7 - 03/12/2013 01:17 PM - Eric Faulhaber

Update has passed conversion regression testing and is committed to bzs rev. 10280.

#8 - 03/18/2013 12:12 AM - Eric Faulhaber

- % Done changed from 0 to 100

- Status changed from WIP to Closed

#9 - 11/16/2016 10:57 AM - Greg Shah

- Target version changed from Milestone 4 to Conversion Support for Server Features

Files

ecf_upd20130303b.zip	4.63 KB	03/03/2013	Eric Faulhaber
ecf_upd20130312a.zip	12.1 KB	03/12/2013	Eric Faulhaber