

Database - Bug #2057

buffer unique name disambiguation (separator problems)

02/26/2013 10:00 AM - 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	version:	
vendor_id:	GCD		
Description			

History

#1 - 02/26/2013 10:10 AM - Constantin Asofiei

We have a case where an existing buffer defined for a table, like:

```
def buffer b-person for person.
```

is identified as the original buffer for a field reference of a statement like:

```
procedure proc0.  
  for each pers-addr where pers-addr.emp-num = person.emp-num:  
    end.  
end.
```

where we get something like:

- 1. for the reference inside the procedure, dbname.person_dbname.person
- 2. for the b-person buffer, dbname.b-person_dbname.person
In BufferScopeWorker.getBuffer, when the matching for dbname.person is done after the "_" char, it will identify b-buf, when really doesn't exist a buffer for it.

The hard part of duplicating this was that the default test database, p2j_test, contains an underscore in its name, thus matching is not done properly. This issue is in two parts:

- 1. find and fix why person is matched with b-person
- 2. do not allow the dbname to contain an underscore, or improve the "_" separator part (in buffer unique name) to use something more exotic (maybe multiple chars?)

#2 - 02/26/2013 10:59 AM - Eric Faulhaber

I realize you're the assignee for this, but it looked like it might be related to what I fixed last night, so I converted the test code you posted.

When you say, "the hard part of duplicating this...", are you saying that the above test code does *not* duplicate the problem? The code converts OK for me.

#3 - 02/26/2013 11:00 AM - Constantin Asofiei

Eric, the code converts because our test db is named "p2j_test", with an underscore... I had to change the DB name to "p2jtest" to duplicate it. Using underscore as separator was unfortunate...

#4 - 02/26/2013 11:20 AM - Constantin Asofiei

Eric, one more question: if you can, please explain why BufferScopeWorker.getBuffer attempts to match the buffer using "dbname.targettable" (without the explicit name set), after the matching after "explicitname_dbname.targettable" has provided no results. Because I can't see any reason why two explicitly defined buffers would act the same. For me, the solution would be to let BufferScopeWorker.getBuffer match only after the "." and not the "_".

#5 - 02/26/2013 11:45 AM - Constantin Asofiei

- File *ca_upd20130226c.zip* added

Update: with the BufferScopeWorker.getBuffer changed I mentioned earlier, conversion of app folder goes through all files OK.

I did not conversion regression tested it yet.

#6 - 02/26/2013 12:15 PM - Eric Faulhaber

Constantin Asofiei wrote:

Eric, one more question: if you can, please explain why BufferScopeWorker.getBuffer attempts to match the buffer using "dbname.targettable" (without the explicit name set), after the matching after "explicitname_dbname.targettable" has provided no results. Because I can't see any reason why two explicitly defined buffers would act the same. For me, the solution would be to let BufferScopeWorker.getBuffer match only after the "." and not the "_".

I explicitly put this more lenient level of matching in to fix some defect in Majic in 2006 (H002), so taking it out now makes me a bit nervous. Please run conversion with your fix against Majic to see if it breaks anything.

#7 - 02/26/2013 02:08 PM - Constantin Asofiei

The conversion regression testing has passed, the only diffs were related to instance field order (RecordBuffer.define lines) in the class associated with the external program and a reordering of buffers in the RecordBuffer.openScope calls - this has no impact in runtime.

#8 - 02/26/2013 02:13 PM - Constantin Asofiei

- File *ca_upd20130226d.zip* added

attached correct update, previous one was for another task (will delete it)

#9 - 02/26/2013 02:14 PM - Constantin Asofiei

- File deleted (ca_upd20130226c.zip)

#10 - 02/26/2013 02:16 PM - Constantin Asofiei

Passed conversion regression testing, committed to bzt revision 10213.

#11 - 02/26/2013 05:55 PM - Eric Faulhaber

- % Done changed from 0 to 100
- Status changed from WIP to Closed

#12 - 11/16/2016 10:56 AM - Greg Shah

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

Files

ca_upd20130226d.zip	8.4 KB	02/26/2013	Constantin Asofiei
---------------------	--------	------------	--------------------