

Database - Bug #3372

Unexpected usage of standalone unknown value.

11/17/2017 11:46 AM - Ovidiu Maxiniuc

Status:	Closed	Start date:	
Priority:	Normal	Due date:	
Assignee:	Ovidiu Maxiniuc	% Done:	100%
Category:		Estimated time:	0.00 hour
Target version:		case_num:	
billable:	No	version:	
vendor_id:	GCD		
Description			

History

#1 - 11/17/2017 11:59 AM - Ovidiu Maxiniuc

FWD jumps to login screen in customer application. Searched logs and found the following exception listed as the root cause:

```
Caused by: java.lang.IllegalStateException: Unexpected usage of standalone unknown value.
    at com.goldencode.p2j.persist.HQLPreprocessor.simplifyUnknowns(HQLPreprocessor.java:3666)
    at com.goldencode.p2j.persist.HQLPreprocessor.mainWalk(HQLPreprocessor.java:2811)
    at com.goldencode.p2j.persist.HQLPreprocessor.preprocess(HQLPreprocessor.java:1212)
    at com.goldencode.p2j.persist.HQLPreprocessor.<init>(HQLPreprocessor.java:901)
    at com.goldencode.p2j.persist.HQLPreprocessor.get(HQLPreprocessor.java:723)
    at com.goldencode.p2j.persist.CompoundQuery$Optimizer.isServerJoinPossible(CompoundQuery.java:3365)
    at com.goldencode.p2j.persist.CompoundQuery$Optimizer.<init>(CompoundQuery.java:3143)
    at com.goldencode.p2j.persist.CompoundQuery$Optimizer.<init>(CompoundQuery.java:3113)
    at com.goldencode.p2j.persist.CompoundQuery.optimize(CompoundQuery.java:1884)
    at com.goldencode.p2j.persist.CompoundQuery.open(CompoundQuery.java:676)
    at com.goldencode.p2j.persist.QueryWrapper.open(QueryWrapper.java:624)
    [generated-code]
    at com.goldencode.p2j.util.Block.body(Block.java:604)
    at com.goldencode.p2j.util.BlockManager.processBody(BlockManager.java:6985)
    at com.goldencode.p2j.util.BlockManager.topLevelBlock(BlockManager.java:6776)
    at com.goldencode.p2j.util.BlockManager.internalProcedure(BlockManager.java:369)
    at com.goldencode.p2j.util.BlockManager.internalProcedure(BlockManager.java:355)
    ... 563 more
```

Investigations

The where expression looks like:

```
upper(atable.f1) = 'A-CONSTANT' and upper(atable.f2) = ? and upper(atable.f3) = '' and upper(atable.f4) = ? and
upper(atable.f5) = toString(?, '999999999')
```

The problem lies in the list of parameters that HQLPreprocessor receives: they are all unknown s (2 characters and an integer). The first two parameters seem to be successfully converted to IS NULL tests, but the last one fails the validation tests because of the more complex expression involving rtrim and toString functions.

#2 - 11/17/2017 01:30 PM - Ovidiu Maxiniuc

After further investigations I learned that the rtrim was injected after collecting toString node to list of unknown nodes. HQLPreprocessor expected that the parent all nodes marked as unknown to have a binary op node (when adding to unknowns set, FWD goes up the tree and selects the whole function chain).

Solution

I decided to skip the injection of rtrim if the node is marked as unknown. The result would also be unknown and the extra node just complicate the analysis. The application behaves normally with this patch.

#3 - 11/20/2017 07:35 AM - Eric Faulhaber

Ovidiu Maxiniuc wrote:

I decided to skip the injection of rtrim if the node is marked as unknown. The result would also be unknown and the extra node just complicate the analysis. The application behaves normally with this patch.

This sounds like a reasonable fix. Please put this into task branch 3296a if it does not have a home yet.

#4 - 11/20/2017 07:43 AM - Eric Faulhaber

Eric Faulhaber wrote:

Please put this into task branch 3296a if it does not have a home yet.

Sorry, I meant 3369a.

#5 - 11/20/2017 07:45 AM - Ovidiu Maxiniuc

- Status changed from New to WIP
- Assignee set to Ovidiu Maxiniuc

Fix committed revision 11206 in 3369a.

#6 - 11/27/2017 03:46 PM - Greg Shah

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

Branch 3369a was merged to trunk as revision 11206.