

Database - Bug #1913

default locking in a BROWSE widget

11/08/2012 09:36 AM - Ovidiu Maxiniuc

Status:	New	Start date:	
Priority:	Normal	Due date:	
Assignee:		% Done:	0%
Category:		Estimated time:	0.00 hour
Target version:		case_num:	
billable:	No	version:	
vendor_id:	GCD		
Description			

History

#1 - 11/08/2012 09:46 AM - Ovidiu Maxiniuc

It appears that I have uncovered a bug in how we deal with default locking in a BROWSE widgets.

In order to test CURRENT-CHANGED I tried a complicated test procedure that should test the behavior of the function in a single session - multiple buffer case. After I executed a FIND I, created a BROWSE widget that let the user edit data, then check if record is changed after calling FIND again. here is the code:

```
DEFINE QUERY q1 FOR Customer SCROLLING.
DEFINE BROWSE b1 QUERY q1
    DISPLAY Name Balance Address WIDTH 18
    ENABLE Name Balance
    WITH 10 DOWN SEPARATORS.
DEFINE BUTTON btn-Exit LABEL "Exit".
DEFINE FRAME f1
    b1 SKIP btn-Exit
    WITH SIDE-LABELS USE-TEXT CENTERED
    ROW 2 TITLE "Current-changed with 2 buffers".

FIND FIRST Customer NO-LOCK.
DEFINE VARIABLE c-before AS CHARACTER NO-UNDO FORMAT "x(64)".
c-before = Customer.Name + " " + STRING(Customer.Balance) + " " +
    Customer.Address.

OPEN QUERY q1 FOR EACH Customer NO-LOCK.
ENABLE ALL WITH FRAME f1.
WAIT-FOR CHOOSE OF btn-Exit.
CLOSE QUERY q1.

FIND FIRST Customer NO-LOCK.
DEFINE VARIABLE c-after AS CHARACTER NO-UNDO FORMAT "x(64)".
c-after = Customer.Name + " " + STRING(Customer.Balance) + " " +
    Customer.Address.

DISPLAY IF CURRENT-CHANGED Customer THEN "Changed!"
    ELSE "Unchanged" LABEL "Ch Check"
    WITH SIDE-LABELS.

DISPLAY SKIP c-before SKIP c-after.
```

On the 4GL test machine it works fine, however, after the same procedure is converted in P2J and executed, the user cannot move from one field to another inside the BROWSE and he receives the following error messages:

```
** Customer record has NO-LOCK status, update to field not allowed. (396)
** Unable to update customer Field. (142)
```

The server console displays the following exceptions:

```
com.goldencode.p2j.NumberedException: Unable to update customer Field
  at com.goldencode.p2j.util.ErrorManager.recordOrThrowError(ErrorManager.java:606)
  at com.goldencode.p2j.persist.RecordBuffer$Handler.invoke(RecordBuffer.java:7339)
  at com.goldencode.p2j.persist.$Proxy1.setName(Unknown Source)
  at sun.reflect.NativeMethodAccessorImpl.invoke0(Native Method)
  at sun.reflect.NativeMethodAccessorImpl.invoke(NativeMethodAccessorImpl.java:39)
  at sun.reflect.DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.java:25)
  at java.lang.reflect.Method.invoke(Method.java:597)
  at com.goldencode.p2j.persist.FieldReference.set(FieldReference.java:540)
  at com.goldencode.p2j.ui.Element.set(Element.java:333)
  at com.goldencode.p2j.ui.BrowseColumnWidget.setValue(BrowseColumnWidget.java:261)
  at com.goldencode.p2j.ui.BrowseWidget.updateRow(BrowseWidget.java:1085)
  at com.goldencode.p2j.ui.LogicalTerminal.updateRow(LogicalTerminal.java:6735)
  at sun.reflect.NativeMethodAccessorImpl.invoke0(Native Method)
  at sun.reflect.NativeMethodAccessorImpl.invoke(NativeMethodAccessorImpl.java:39)
  at sun.reflect.DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.java:25)
  at java.lang.reflect.Method.invoke(Method.java:597)
  at com.goldencode.p2j.util.MethodInvoker.invoke(MethodInvoker.java:76)
  at com.goldencode.p2j.net.Dispatcher.processInbound(Dispatcher.java:675)
  at com.goldencode.p2j.net.Conversation.block(Conversation.java:316)
  at com.goldencode.p2j.net.Conversation.waitForMessage(Conversation.java:254)
  at com.goldencode.p2j.net.Queue.transactImpl(Queue.java:1107)
  at com.goldencode.p2j.net.Queue.transact(Queue.java:575)
  at com.goldencode.p2j.net.BaseSession.transact(BaseSession.java:178)
  at com.goldencode.p2j.net.HighLevelObject.transact(HighLevelObject.java:163)
  at com.goldencode.p2j.net.RemoteObject$RemoteAccess.invokeCore(RemoteObject.java:1406)
  at com.goldencode.p2j.net.InvocationStub.invoke(InvocationStub.java:97)
  at $Proxy0.waitFor(Unknown Source)
  at com.goldencode.p2j.ui.LogicalTerminal.waitFor(LogicalTerminal.java:3671)
  at com.goldencode.p2j.ui.LogicalTerminal.waitFor(LogicalTerminal.java:3439)
  at com.goldencode.testcases.util.X3cc1session$1.body(X3cc1session.java:62)
  at com.goldencode.p2j.util.BlockManager.processBody(BlockManager.java:6983)
  at com.goldencode.p2j.util.BlockManager.topLevelBlock(BlockManager.java:6890)
  at com.goldencode.p2j.util.BlockManager.externalProcedure(BlockManager.java:194)
  at com.goldencode.p2j.util.BlockManager.externalProcedure(BlockManager.java:180)
  at com.goldencode.testcases.util.X3cc1session.execute(X3cc1session.java:35)
  at sun.reflect.NativeMethodAccessorImpl.invoke0(Native Method)
  at sun.reflect.NativeMethodAccessorImpl.invoke(NativeMethodAccessorImpl.java:39)
  at sun.reflect.DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.java:25)
  at java.lang.reflect.Method.invoke(Method.java:597)
  at com.goldencode.p2j.util.Utils.invoke(Utils.java:1153)
  at com.goldencode.p2j.main.StandardServer$MainInvoker.execute(StandardServer.java:1513)
  at com.goldencode.p2j.main.StandardServer.invoke(StandardServer.java:1019)
  at com.goldencode.p2j.main.StandardServer.standardEntry(StandardServer.java:320)
  at sun.reflect.NativeMethodAccessorImpl.invoke0(Native Method)
  at sun.reflect.NativeMethodAccessorImpl.invoke(NativeMethodAccessorImpl.java:39)
  at sun.reflect.DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.java:25)
  at java.lang.reflect.Method.invoke(Method.java:597)
  at com.goldencode.p2j.util.MethodInvoker.invoke(MethodInvoker.java:76)
  at com.goldencode.p2j.net.Dispatcher.processInbound(Dispatcher.java:675)
  at com.goldencode.p2j.net.Conversation.block(Conversation.java:316)
  at com.goldencode.p2j.net.Conversation.run(Conversation.java:158)
  at java.lang.Thread.run(Thread.java:662)
Caused by: com.goldencode.p2j.persist.PersistenceException: Customer record has NO-LOCK status, update to field not allowed
  at com.goldencode.p2j.persist.RecordBuffer.upgradeLock(RecordBuffer.java:4284)
  at com.goldencode.p2j.persist.RecordBuffer$Handler.invoke(RecordBuffer.java:7335)
  at com.goldencode.p2j.persist.$Proxy1.setName(Unknown Source)
  at sun.reflect.NativeMethodAccessorImpl.invoke0(Native Method)
  at sun.reflect.NativeMethodAccessorImpl.invoke(NativeMethodAccessorImpl.java:39)
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  at com.goldencode.p2j.util.MethodInvoker.invoke(MethodInvoker.java:76)
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at com.goldencode.p2j.net.Conversation.block(Conversation.java:316)
at com.goldencode.p2j.net.Conversation.waitMessage(Conversation.java:254)
at com.goldencode.p2j.net.Queue.transactImpl(Queue.java:1107)
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at sun.reflect.DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.java:25)
at java.lang.reflect.Method.invoke(Method.java:597)
at com.goldencode.p2j.util.Utills.invoke(Utills.java:1153)
at com.goldencode.p2j.main.StandardServer$MainInvoker.execute(StandardServer.java:1513)
at com.goldencode.p2j.main.StandardServer.invoke(StandardServer.java:1019)
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at java.lang.Thread.run(Thread.java:662)
```

#2 - 11/08/2012 05:41 PM - Eric Faulhaber

Please attach your test database's *.df file (and *.d file(s), if any), so that the worker of this issue can run the testcase.

#3 - 11/09/2012 08:48 AM - Ovidiu Maxiniuc

- File p2j_test.df added

.df file attached.
.d file is irrelevant.

Files

p2j_test.df	14.5 KB	11/09/2012	Ovidiu Maxiniuc
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