

## Database - Bug #1308

### dirty share - related abend

10/25/2010 12:00 PM - Stanislav Lomany

<b>Status:</b>	WIP	<b>Start date:</b>	10/25/2010
<b>Priority:</b>	Normal	<b>Due date:</b>	
<b>Assignee:</b>	Stanislav Lomany	<b>% Done:</b>	0%
<b>Category:</b>		<b>Estimated time:</b>	0.00 hour
<b>Target version:</b>		<b>case_num:</b>	
<b>billable:</b>	No		
<b>vendor_id:</b>	GCD		
<b>Description</b>			

### History

#### #1 - 10/25/2010 02:21 PM - Stanislav Lomany

@44974 - problem:

Testcase:

```
def var bid as integer.
```

```
find last book no-lock.  
bid = book.book-id + 1.
```

```
do transaction on endkey undo, leave  
               on error undo, leave:  
  create book.  
  book.book-id = bid.  
  book.book-title = "TEZZT".  
  book.isbn = "isbn-" + string(bid).  
  pause message "point 1".  
end.
```

```
pause message "point 2".
```

Reproduction:

Run first instance to "point 1". Run second instance - abend.

Stacktrace:

```
Caused by: java.lang.NullPointerException: Table must be non-null  
    at com.goldencode.p2j.persist.RecordIdentifier.<init>(RecordIdentifier.java:50)  
    at com.goldencode.p2j.persist.dirty.DefaultDirtyShareManager.lockSingle(DefaultDirtyShareManager.java:  
1491)  
    at com.goldencode.p2j.persist.dirty.DefaultDirtyShareManager.getDirtyInfo(DefaultDirtyShareManager.jav  
a:1142)  
    at com.goldencode.p2j.persist.dirty.DefaultDirtyShareContext.getDirtyInfo(DefaultDirtyShareContext.jav  
a:920)  
    at com.goldencode.p2j.persist.RandomAccessQuery.executeImpl(RandomAccessQuery.java:2888)  
    at com.goldencode.p2j.persist.RandomAccessQuery.execute(RandomAccessQuery.java:2165)  
    at com.goldencode.p2j.persist.RandomAccessQuery.last(RandomAccessQuery.java:999)  
    at com.goldencode.p2j.persist.RandomAccessQuery.last(RandomAccessQuery.java:905)  
    at com.goldencode.testcases.Test$1.body(Test.java:31)  
    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.Test.execute(Test.java:19)  
    ...
```

**#2 - 04/12/2012 11:53 AM - Stanislav Lomany**

Imported from JPRM on 2012-04-12 11:53:57.493:

```
TASKID      = 6017
PROJECTID   = 101
STATUS      = 9 (Closed)
DESCRIPTION = dirty share - related abend
OWNER       = SVL
ASSIGNEE    = SVL
BILLABLE    = false
PRIORITY    = 5 (Normal)
PHASE       = 31 (Development)
COMPONENT   = 0
ESTEFFORT   = 0.000000
ESTSTART    = 2010-10-25
ESTSTOP     =
ACTSTOP     =
CASENUM     =
VENDORID   =
COMMENT     = ''
LASTWIP    = 2010-10-25
```

**#3 - 10/27/2012 05:23 PM - Stanislav Lomany**

The update (svl\_upd20101214a) wasn't applied because it causes errors in Majic (I cannot provide concrete examples).

At this point the original testcase doesn't reproduce the issue, probably because of conversion changes. However you can still reproduce the issue if the FindQuery in this testcase is using a sort string that doesn't match a database index (e.g. "book.bookTitle asc"). Note that a FindQuery that uses such sort string is primarily the hand-written code case.

**#4 - 10/29/2012 06:25 AM - Greg Shah**

- Status changed from Closed to WIP
- File svl\_upd20101214a.zip added

**#5 - 10/29/2012 06:27 AM - Greg Shah**

- Project changed from Majic Conversion to FWD

**#6 - 10/29/2012 06:28 AM - Greg Shah**

- Project changed from FWD to Database

**#7 - 10/29/2012 10:08 AM - Eric Faulhaber**

This fix (svl\_upd20101214a.zip) looks correct to me. The idea was to fail quickly with an `IllegalArgument`Exception during construction of a `RandomAccessQuery` when the sort string does not match an index, rather than to fail much later during dirty share processing. This would detect a programming error (including conversion error) as early as possible at runtime.

I think we need to re-merge/reapply this fix and rerun regression testing to find out exactly what went wrong in Majic, then go from there.

**#8 - 11/08/2012 05:54 PM - Eric Faulhaber**

- *Tracker changed from Feature to Bug*

**Files**

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svl_upd20101214a.zip	28.5 KB	10/29/2012	Greg Shah
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