

Database - Bug #7776

Previous regression on FWD-H2 lazy mode

09/07/2023 09:39 AM - Alexandru Lungu

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

History

#1 - 09/07/2023 09:59 AM - Alexandru Lungu

- Priority changed from Normal to Low

```
def temp-table tt field f1 as integer field f11 as char index idx1 f1.
define query q for tt.

def var i as int no-undo.

do transaction:
  create tt. tt.f1 = 1. tt.f11 = "a".
  create tt. tt.f1 = 2. tt.f11 = "b".
  create tt. tt.f1 = 3. tt.f11 = "c".
end.

open query q for each tt.
do i = 1 to 2 on stop undo, leave:
  message "Try" i.
  get last q.
  message tt.f1 query-off-end("q"). // 3
  get prev q.
  message tt.f1 query-off-end("q"). // 2
  get prev q.
  message tt.f1 query-off-end("q"). // 1
  get prev q.
  if avail(tt) then message tt.f1 query-off-end("q"). else message "??" query-off-end("q"). // ?? yes
  get prev q.
  if avail(tt) then message tt.f1 query-off-end("q"). else message "??" query-off-end("q"). // ?? yes
  get next q.
  message tt.f1 query-off-end("q"). // 1 no
end.
message available(tt).
message query-off-end("q").
```

The output in 4GL:

```
Try 1
3 no
2 no
1 no
?? yes
?? yes
1 no
Try 2
3 no
2 no
```

```
1 no
?? yes
?? yes
1 no
```

The output in FWD:

```
Try 1
3 no
2 no
1 no
?? yes
?? yes
1 no
Try 2
3 no
** No tt record is available. (91)
? yes
** No tt record is available. (91)
? yes
?? yes
?? yes
** No tt record is available. (91)
? yes
no
```

TL;DR: I do the same scenario two times. The second time, when doing get prev q, the record is not found. In FWD-H2, I reached LazyResult.hasPrevious, where beforeLast is true. Radu, I don't quite get beforeLast; should it have been beforeFirst? If that is the case, note that beforeLast can be reset back to false if we ever do next. This is my example, going before the first record, going to the last record and doing a prev.

#2 - 09/13/2023 05:30 AM - Radu Apetrii

Alexandru Lungu wrote:

If that is the case, note that beforeLast can be reset back to false if we ever do next.

That was exactly the missing piece. I added this logic for both beforeFirst and afterLast. I also changed the name from beforeLast to beforeFirst, thanks for pointing out.

The changes can be found on 7066b_h2, rev. 28. Also, there are two tests added to TestLazy that simulate the behavior of the test from [#7776-1](#).

#3 - 10/05/2023 05:54 AM - Alexandru Lungu

- *Status changed from WIP to Review*

This was merged to FWD-H2 trunk as rev. 28 and reached trunk as fwd-h2-1.31-trunk.

#4 - 01/05/2024 04:07 AM - Alexandru Lungu

- *Status changed from Review to Test*

This can be closed.

#5 - 01/05/2024 09:14 AM - Greg Shah

- *% Done changed from 0 to 100*

- *Status changed from Test to Closed*