Database - Bug #12024

_MyConnection: restrict to the current connection, and finish the remaining fields

10/19/2026 07:44 PM - Greg Shah

Status:	New	**Start date:**	
Priority:	Normal	**Due date:**	
Assignee:		**% Done:**	0%
Category:		**Estimated time:**	0.00 hour
Target version:			
billable:	No	**reviewer:**	
vendor_id:	GCD	**production:**	No
case_num:		**env_name:**	
version_reported:		**topics:**	
version_resolved:			

Description

History

#1 - 10/19/2026 07:45 PM - Greg Shah

_MyConnection: restrict to the current connection, and finish the remaining fields

Project: Database

Problem

In the 4GL, _MyConnection holds exactly one record: the current session's own connection. Code relies on this with FIND FIRST _MyConnection to get its own user number (_MyConn-UserId), and uses that number to select its own records in other VSTs such as _UserTableStat (_UserTableStat-Conn = _MyConn-UserId) or _Connect.

The gap marking records the table as Partial on both sides:

- Conversion: *"a query over this table is converted, but it is not yet restricted to the current user's own connection the way the 4GL restricts it; narrowing it requires a conversion change"*.
- Runtime: *"the table is populated, but a user can currently see every other user's connection records rather than only their own; _myconn-numseqbuffers and _myconn-usedseqbuffers are stubs"*.

The current source suggests the restriction may already be in place, at least on H2. DDLGeneratorWorker (MY_CONNECTION_AUX) creates a view, meta_myconnection, over the table meta_myconnection_, filtered by my_conn_user_id = fwdSession_1(), with an INSTEAD OF trigger handled by persist/h2/UpdatableMyConnectionView. ConnectTableUpdater sets my_conn_user_id to the session id. So it is not known which of the recorded limitations still hold.

Work

1. **Establish the current state** with testcases, with two or more sessions connected at the same time:
   - what FIND FIRST _MyConnection, FOR EACH _MyConnection and a dynamic query over it return in each session;
   - whether the converted query actually goes through the filtered view or reads the underlying table directly;
   - whether this holds for every way the metadata database can be configured, and on every dialect the metadata tables can live in.
2. **Restrict the table to the current connection** wherever that is not already the case, so that every static and dynamic query returns only the session's own record.
3. Make sure _MyConn-UserId is the same value that identifies the session in _Connect (_Connect-Usr) and _UserTableStat (_UserTableStat-Conn), so the joins 4GL code makes between these tables work.
4. Check _MyConn-Pid against _Connect-Pid for the same session.
5. Implement _MyConn-NumSeqBuffers and _MyConn-UsedSeqBuffers, or report a fixed value that matches what OpenEdge reports for a session with no sequence activity, whichever the OpenEdge behaviour supports.
6. Update the gap marking for _myconnection and its fields.

Testcases

Each with an OpenEdge baseline:

- one session: the record count, and every field of the record;
- two concurrent sessions: each sees only its own record, and the user numbers differ;
- _MyConn-UserId used to find the session's own records in _Connect and _UserTableStat;
- a session that disconnects and reconnects.