

Mulgara - Bug #152

Exception on not-well-formed OPTIONAL queries

10/15/2008 09:15 PM - Paula Gearon

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|------------------------|---------------------|------------------------|-----------|
| Status: | Closed | Start date: | |
| Priority: | High | Due date: | |
| Assignee: | Paula Gearon | % Done: | 0% |
| Category: | Mulgara | Estimated time: | 0.00 hour |
| Target version: | SPARQL Query Engine | | |
| Resolution: | fixed | | |

Description

The W3C test include the following:

Nested-optionals with a shared variable that does not appear in the middle pattern (a not well-formed query pattern as per "Semantics and Complexity" of SPARQL

The query is:

```
PREFIX : <http://example/>
```

```
SELECT *
{
  ?X :name "paul"
  {?Y :name "george" . OPTIONAL { ?X :email ?Z } }
}
```

There data is on the [W3C site](#)

On running this query we get:

```
org.mulgara.query.QueryException: Query failed
    at org.mulgara.resolver.DatabaseSession.execute(DatabaseSession.java:754)
    at org.mulgara.resolver.DatabaseSession.query(DatabaseSession.java:464)
    at org.openrdf.sail.mulgara.MulgaraTripleSource.evaluate(MulgaraTripleSource.java:111)
    at org.openrdf.sail.mulgara.MulgaraEvaluationStrategy.evaluate(MulgaraEvaluationStrategy.java:50)
    ... 27 more
Caused by: org.mulgara.query.MulgaraTransactionException: Transaction rollback triggered
    at org.mulgara.resolver.MulgaraInternalTransaction.implicitRollback(MulgaraInternalTransaction.java:516)
    at org.mulgara.resolver.MulgaraInternalTransaction.execute(MulgaraInternalTransaction.java:627)
    at org.mulgara.resolver.DatabaseSession.execute(DatabaseSession.java:751)
    ... 30 more
Caused by: org.mulgara.query.QueryException: Failed to resolve constraintExpression
    at org.mulgara.resolver.ConstraintOperations.resolveConstraintExpression(ConstraintOperations.java:197)
    at org.mulgara.resolver.LocalQueryResolver.resolveE(LocalQueryResolver.java:269)
    at org.mulgara.resolver.DatabaseOperationContext.doQuery(DatabaseOperationContext.java:786)
    at org.mulgara.resolver.QueryOperation.execute(QueryOperation.java:139)
    at org.mulgara.resolver.MulgaraInternalTransaction.execute(MulgaraInternalTransaction.java:623)
    ... 31 more
Caused by: org.mulgara.query.TuplesException: Bad [[LocalNode]] in constraint. constraint.getElement(0) returned a [[LocalNode]] with value: 0 constraint=[gn0 gn1449 gn1481 gn1369]
    at org.mulgara.resolver.store.StatementStoreResolution.defineIndex(StatementStoreResolution.java:308)
    at org.mulgara.resolver.store.StatementStoreResolution.<init>(StatementStoreResolution.java:156)
```

```
    at org.mulgara.resolver.store.StatementStoreResolution.reresolve(StatementStoreResolution.j
ava:371)
    at org.mulgara.store.tuples.TuplesOperations.resolveNewlyBoundFreeNames(TuplesOperations.ja
va:563)
    at org.mulgara.store.tuples.TuplesOperations.unifyOperands(TuplesOperations.java:464)
    at org.mulgara.store.tuples.TuplesOperations.join(TuplesOperations.java:244)
    at org.mulgara.resolver.DefaultConstraintHandlers$5.resolve(DefaultConstraintHandlers.java:
165)
    at org.mulgara.resolver.ConstraintOperations.resolveConstraintExpression(ConstraintOperatio
ns.java:187)
    ... 35 more
```

Associated revisions

Revision 1323 - 10/16/2008 05:23 AM - Paula Gearon

Found and fixed a pair of bugs when all variables are shared between two sides of an optional join. Also updated optionalJoin to handle left and right sides not sharing variables (a cartesian product), and now handling projection to extra variables when the optional part of a join is empty.

Fixes #152

Fixes #150

History

#1 - 10/16/2008 05:23 AM - Paula Gearon

- Status changed from New to Closed

- Resolution set to fixed

(In [r1323](#)) Found and fixed a pair of bugs when all variables are shared between two sides of an optional join. Also updated optionalJoin to handle left and right sides not sharing variables (a cartesian product), and now handling projection to extra variables when the optional part of a join is empty.

Fixes [#152](#)

Fixes [#150](#)