# Mulgara - Feature #59

## ItqlInterpreter refactoring

05/04/2007 06:52 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:** | | | |
| **Resolution:** | fixed | | |

**Description**

Currently [[ItqlInterpreter]] takes a string, parses it into a command AST, and executes it.  Execution uses information out of the AST for managing sessions.
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We need to split [[ItqlInterpreter]] into classes which perform parsing, perform execution, and manage sessions.  This will allow the same mechanism to be shared between 3 separate paradigms:
<br/>
1.  Client parsing, establishing connections, and sending AST to server (current implementation).
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2.  Client connects to server, sends raw string.  Server parses TQL and executes on local session.
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3.  Client connects to server, sends raw string.  Server parses SPARQL and executes on local session.
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Allowing options 2 and 3 has several advantages:
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- Closer to what happens with databases like [[MySQL]], and presents a much more portable paradigm.
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- Allows easier avoidance of &quot;session management&quot;
 when a task inside the server JVM wishes to execute a query (such as in the Krule engine).
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- This is the required paradigm for SPARQL protocol.
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- Better separation of tasks than currently exists in [[ItqlInterpreter]].
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- Permits clients to perform connection pooling.
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- Allows client transaction API that is separated from the query language.

**History**

**#1 - 03/17/2008 08:12 PM - Paula Gearon**

*- Status changed from New to Closed*

*- Resolution set to fixed*