

Unit 2: Setting up MarkLogic



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Learning Objectives

- Install and License MarkLogic Server
- Access the Admin Interface
- Use Query Console
- Explore Documentation and Resources

Installation

- Download appropriate binary
 - <http://developer.marklogic.com>
- Install
- Start MarkLogic service
- Install license
 - Default installation is setup with free Developer license
- Create MarkLogic admin account

The Admin Application

- Port 8001
- /MarkLogic Install Location/Admin/
- Perform Administrative Functions



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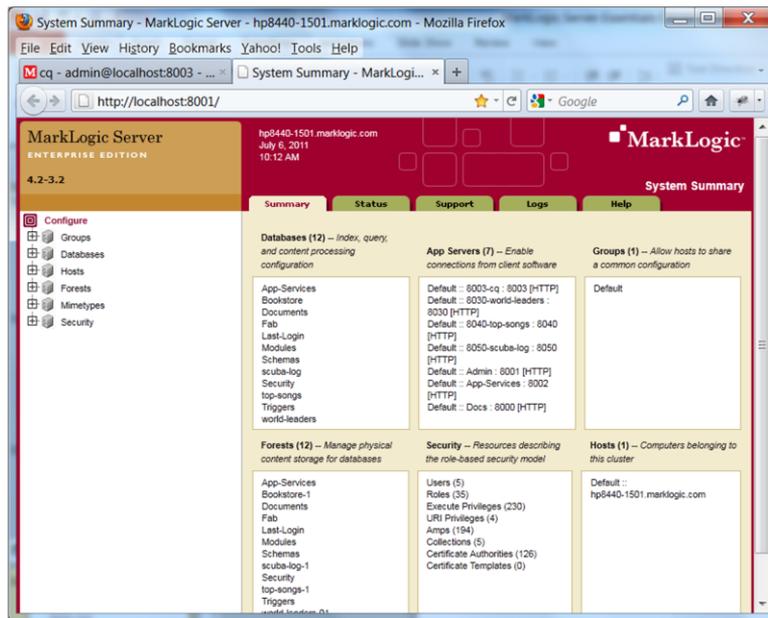
The MarkLogic Administration tool is a prebuilt XQuery application that is available on port 8001 after installation of the product. The codebase for this application can be found in the location where MarkLogic was installed, in the /admin/ folder.

The admin tool provides a UI for performing common tasks related to:

- Application Servers
- Databases and Forests
- Security settings
- Managing groups and clusters
- Monitoring the system

The core functions provided by the admin tool are also packaged as an API that can be used to script many of the tasks performed in the UI.

The Admin Application

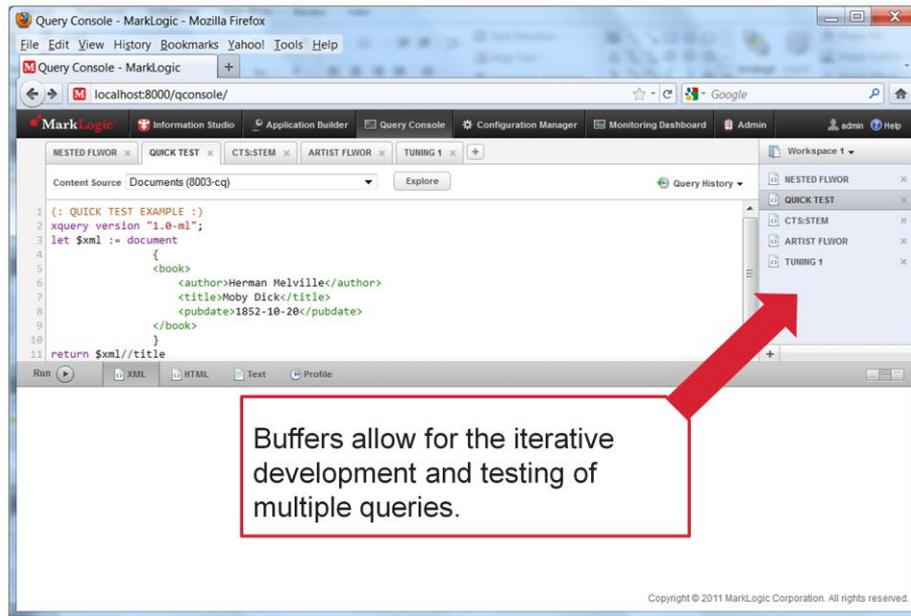


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The Query Console Application

- Port 8000
- /MarkLogic Install Location/Apps/qconsole/
- XQuery development and testing tool
 - Multiple output formats
 - Create Sessions & Buffers
 - View XML data
 - Test queries against a specific database
 - Query performance

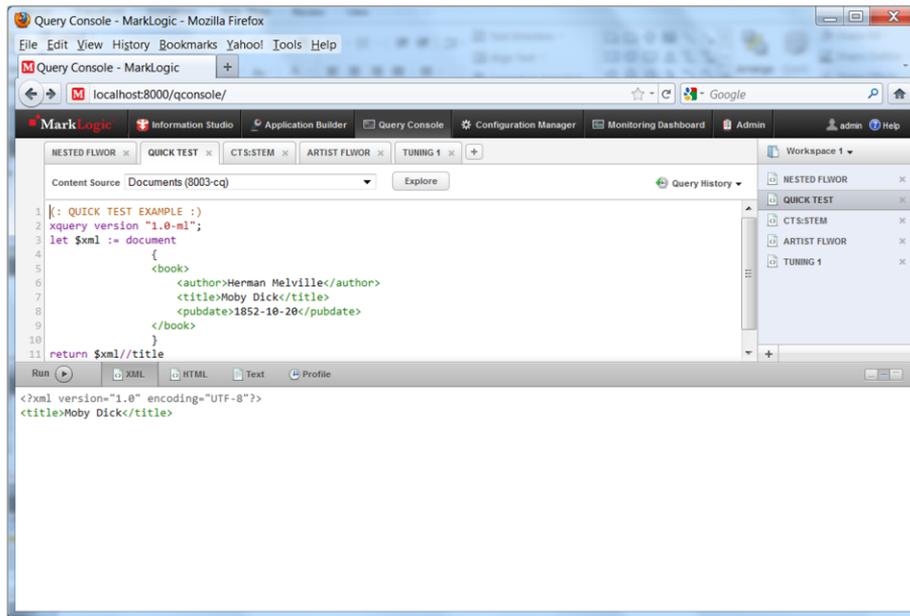
Query Console - Buffers



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The Query Console tool allows you to write several scripts and keep them saved in various buffers. The buffers will be saved until you overwrite them with new code. If you close out of your browser, they will be there the next time you return to use the Query Console application.

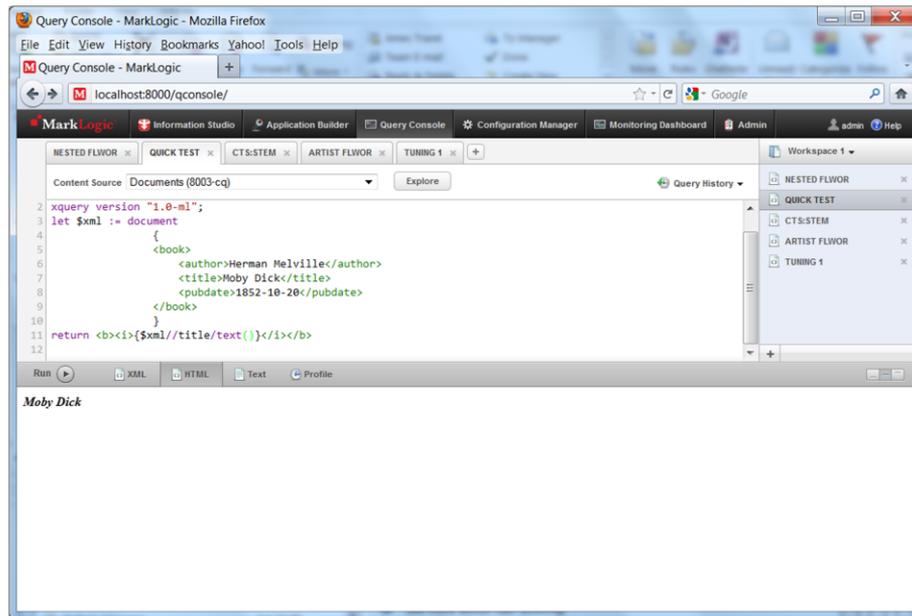
Query Console – XML Output



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The XML button streams the result of your query as XML. If the result of your query is not XML, it will be wrapped in a `<v:warning>` tag. This is not an error, rather how Query Console was designed to behave to ensure that the output is formatted as XML.

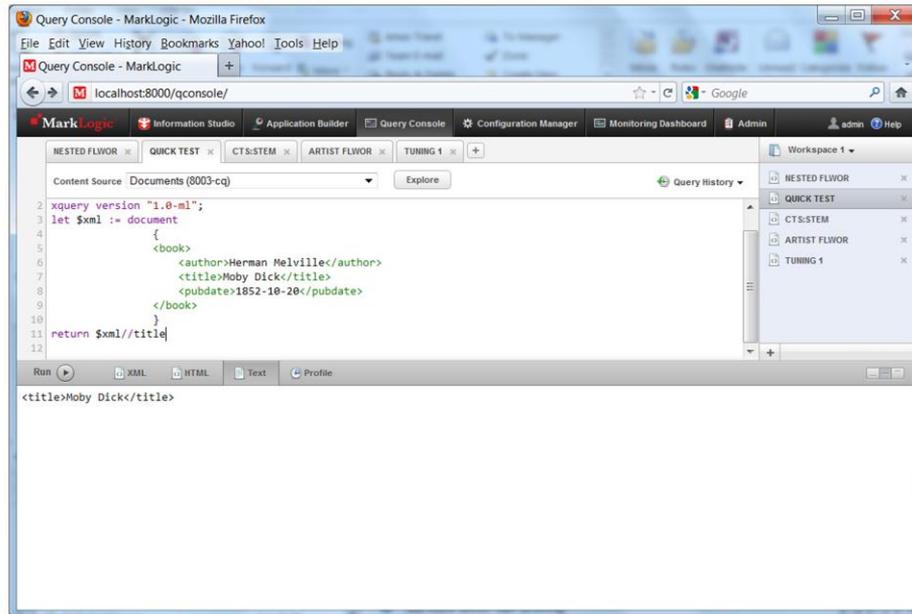
Query Console – HTML Output



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The HTML button provides a way for you to view how a browser would display your query result. This is useful if you have HTML markup being returned as a part of your query.

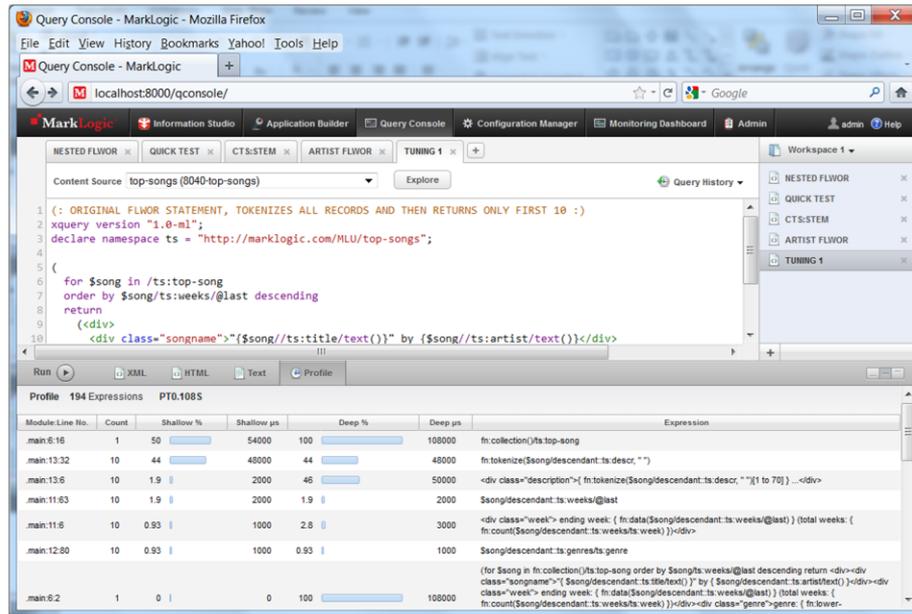
Query Console – Text Output



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The text button streams your query result as a single text node.

Query Console – Profile Output



The screenshot shows the MarkLogic Query Console interface. The query being executed is:

```

1 (: ORIGINAL FLWOR STATEMENT, TOKENIZES ALL RECORDS AND THEN RETURNS ONLY FIRST 10 :)
2 xquery version "1.0-ml";
3 declare namespace ts = "http://marklogic.com/MLU/top-songs";
4
5 (
6   for $song in /ts:top-song
7   order by $song/ts:weeks/@last descending
8   return
9     <<div>
10    <div class="songname">{$song/ts:title/text()} by {$song/ts:artist/text()}</div>
11    !!
12  )
    
```

The profile output shows the following data:

Module:Line No.	Count	Shallow %	Shallow μ s	Deep %	Deep μ s	Expression
.main:6:16	1	50	54000	100	108000	fn:collection(/ts:top-song
.main:13:32	10	44	48000	44	48000	fn:tokenize(\$song/descendant::ts:descr, " ")
.main:13:6	10	1.9	2000	46	50000	<div class="description">{ fn:tokenize(\$song/descendant::ts:descr, " ")[1 to 70] } ...</div>
.main:11:63	10	1.9	2000	1.9	2000	\$song/descendant::ts:weeks/@last
.main:11:6	10	0.93	1000	2.8	3000	<div class="week"> ending week: { fn:data(\$song/descendant::ts:weeks/@last) } total weeks: { fn:count(\$song/descendant::ts:weeks/week) }</div>
.main:12:80	10	0.93	1000	0.93	1000	\$song/descendant::ts:genres/ts:genre
.main:6:2	1	0	0	100	108000	(for \$song in fn:collection(/ts:top-song order by \$song/ts:weeks/@last descending return <div><div class="songname">{ \$song/descendant::ts:title/text() } by { \$song/descendant::ts:artist/text() }</div><div class="week"> ending week: { fn:data(\$song/descendant::ts:weeks/@last) } total weeks: { fn:count(\$song/descendant::ts:weeks/week) }</div><div class="genre">genre: { fn:lower-

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The profile button breaks your query down into expressions, and provides some performance information for each expression.

- Shallow = % of time spent in the single expression
- Deep = % of time spent in the expression + all sub expressions

MarkLogic Resources

- Community for MarkLogic Professionals
 - <http://developer.marklogic.com>
- Online Documentation + PDF Documentation
 - <http://docs.marklogic.com/>
- MarkMail
 - <http://markmail.org>

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Each of these sites are extremely useful in your day to day work with MarkLogic. Please take a moment to bookmark these now!!

Unit 2: Applying the Learning Objectives

- Install and License MarkLogic Server
 - Exercise 1
- Access the Admin Interface
 - Exercise 2
- Use Query Console
 - Exercise 3
- Explore Documentation and Resources
 - Exercise 4