MarkLogic Server

Query Console User Guide

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1.0 Introduction to Query Console

Query Console is an interactive web-based query development tool for writing and executing ad-hoc queries in XQuery, SQL and SPARQL. Query Console enables you to quickly test code snippets, debug problems, profile queries, and run administrative XQuery scripts.

The following terms and definitions cover the primary Query Console components:

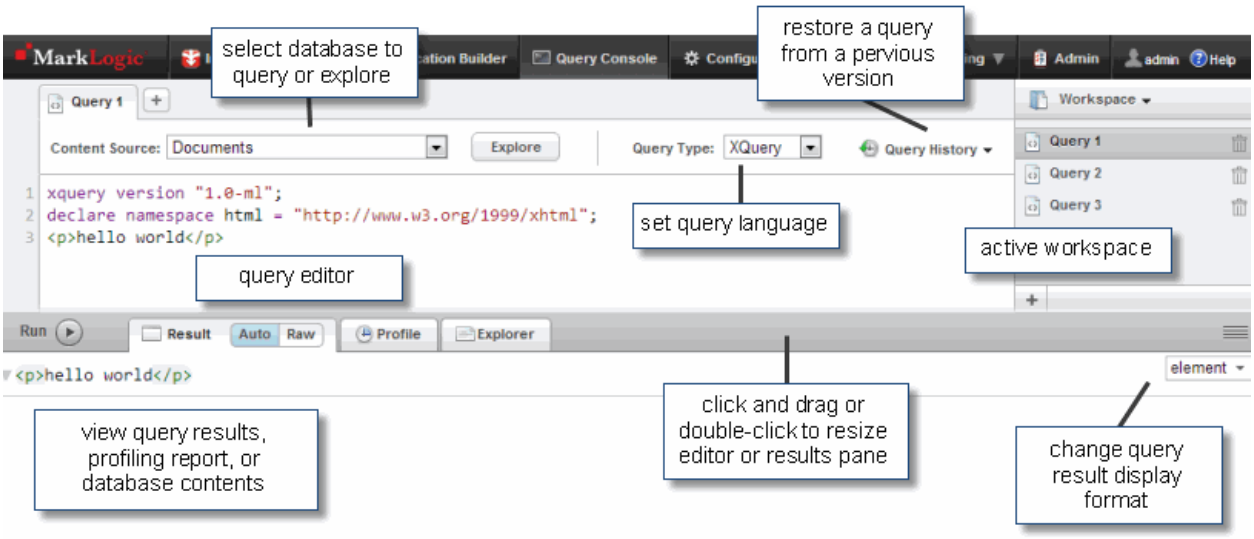
Term	Definition
query	Any executable block of XQuery, SQL, or SPARQL. When you run a query in Query Console, you may view the results in your choice of formats.
workspace	A collection of queries. Use workspaces to organize your queries. You may create multiple workspaces, but only one is active at a time.
history	A record of previously executed versions of a query. Each time you execute a query in Query Console, its query text is saved in the history. Use the history to restore a query to a previous state.
content source	The database and App Server combination against which your query executes. Query Console automatically builds a list of available content sources for your MarkLogic Server and makes it available in the Content Source list.

Using Query Console, you can:

- Create queries in XQuery, SQL, or SPARQL.
- Modify, delete and rename queries.
- Run a query and view the output in multiple formats.
- Profile query performance.
- Explore the contents of a database.
- Create, delete, copy, or rename workspaces to improve query organization.
- Restore a query to a previous version from its saved history.
- Export and import workspaces for easy sharing among users or across MarkLogic Server instances.

The workspaces and queries created in Query Console are stored in MarkLogic Server, so they are available to you from any computer with access to your MarkLogic Server instance. For example, you can create workspaces and queries on your desktop computer and use them from a lab machine with access to the same MarkLogic Server instance.

The picture below summarizes key Query Console UI features. For more information on using specific features, see the “Query Console Walkthrough” on page 6.



Note: You should only have one Query Console session active at a time for any given MarkLogic user. Query Console saves state to MarkLogic Server. If a user has multiple Query Console sessions active concurrently, the state can become inconsistent.

2.0 Query Console Walkthrough

This chapter provides a quick introduction to using the core Query Console features.

- Acessing Query Console
- Creating a Query
- Running a Query
- Changing the Query Output Format
- Using the Query Execution History
- Profiling a Query
- Exploring a Database
- Organizing Queries with Workspaces

2.1 Acessing Query Console

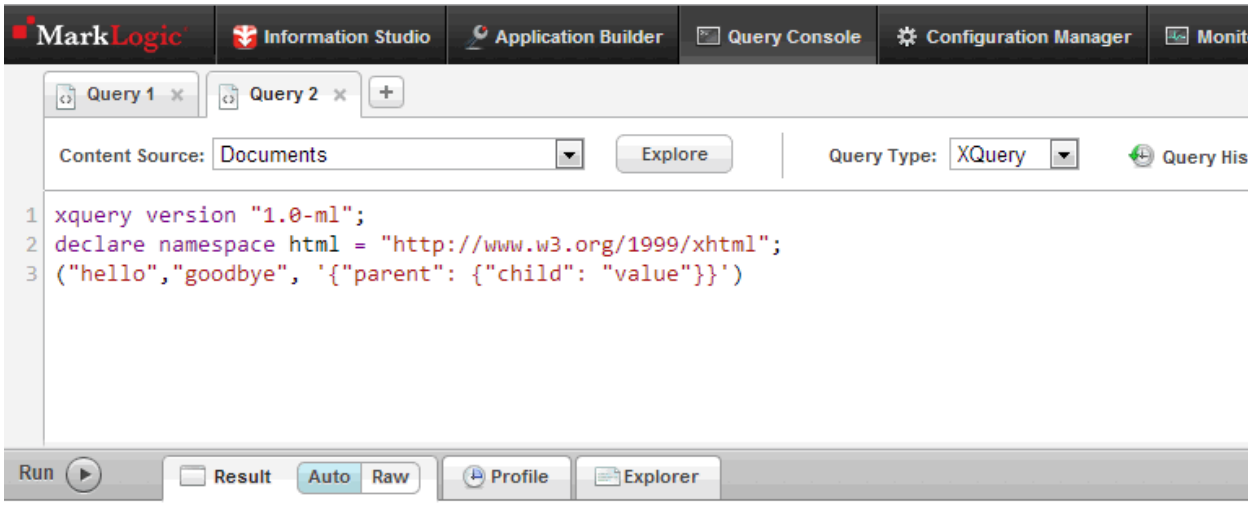
To begin using Query Console, open a browser and enter the URL:

```
http://your_host:8000/qconsole
```

Note: If the application does not appear, you may not have sufficient privileges. To use Query Console, you must be a member of the `qconsole-user` role. If your privileges are insufficient, contact your MarkLogic Server administrator.

Note: Query Console does not grant extra access to databases or documents. To perform operations such as document insertion or deletion or database exploration from Query Console, you must have appropriate security privileges.

You should see a page similar to the following:



You should only have one Query Console session active at a time for any given MarkLogic user. Query Console saves state to MarkLogic Server. If a user has multiple Query Console sessions active concurrently, the state can become inconsistent. For example, do not log into Query Console as the same user in multiple browsers or browser tabs.

2.2 Creating a Query

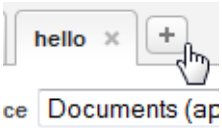
This section walks you through creating a new query.

The following example assumes an empty workspace named `Workspace`, populated only with the default initial XQuery query, named `Query 1`. This is the configuration you see the first time you launch Query Console.

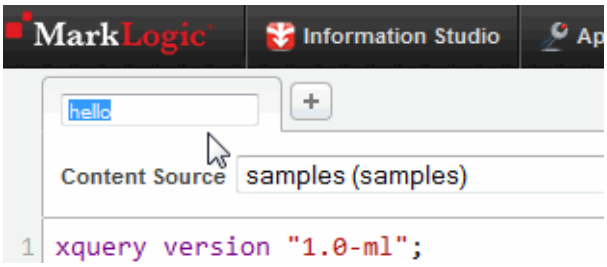
To create and run a query:

1. If the current workspace is not Workspace, click on the workspace dropdown on the upper right and select the workspace named Workspace.

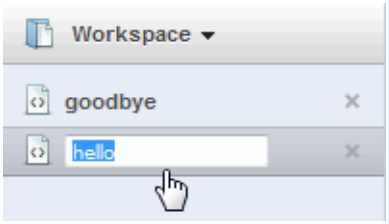
2. Click on the "+" at the top of the query editor to the right of the open query tabs. A new query is created and opened in the editor. The new query also appears in the workspace panel on the right.



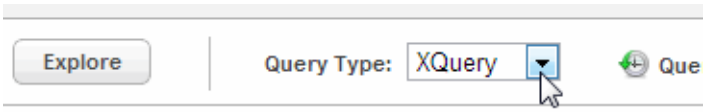
3. Double-click on the query name in tab at the top of the editor and type in a meaningful name for the query, such as `hello`. Notice the name changes in the tab and in the workspace panel on the right.



You can also rename a query by double-clicking its name in the workspace panel.

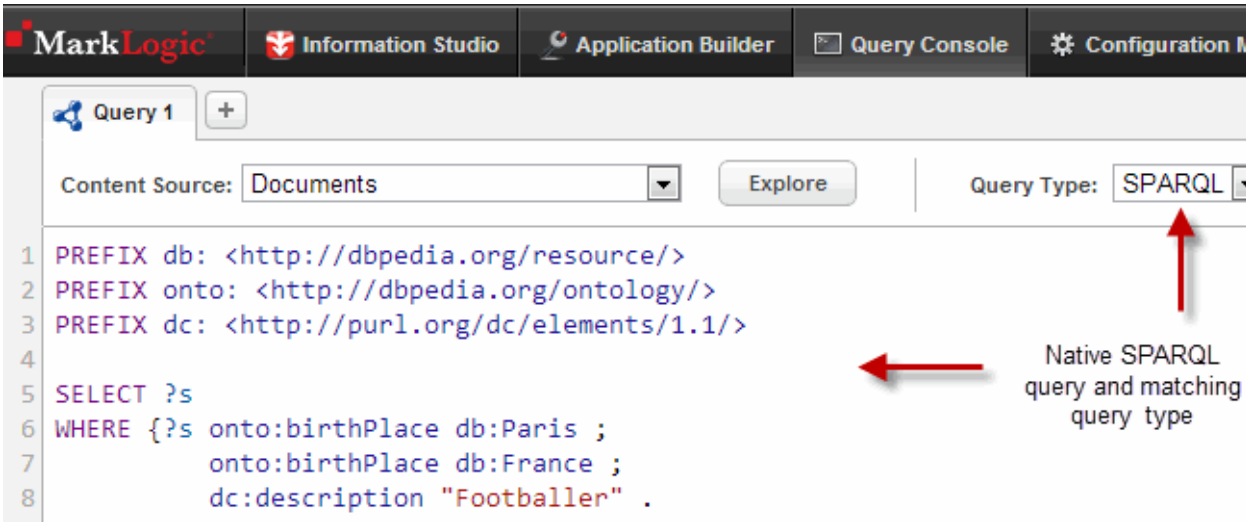


4. Choose the query type (XQuery, SQL, SPARQL) by clicking on the Query Type dropdown to the right of the Explore button. For this example, select XQuery.



The Query Type determines what query language MarkLogic Server assumes for you query when it is evaluated. Though the MarkLogic Server XQuery API's includes functions for evaluating SQL and SPARQL queries, such as `xdmp:sql` and `sem:sparql`, you can enter a native SQL or SPARQL query directly by setting Query Type appropriately.

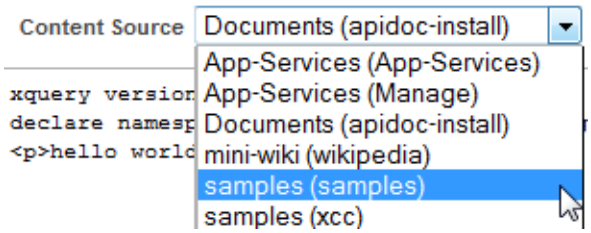
The following example shows a native SPARQL query with the Query Type set appropriately.



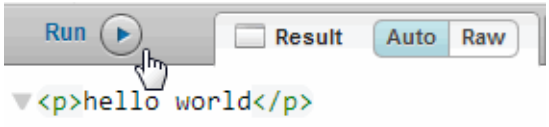
2.3 Running a Query

Follow this procedure to evaluate a query and view the results. You should already have entered your query in the query editor and selected the appropriate Query Type. If not, refer to Creating a Query.

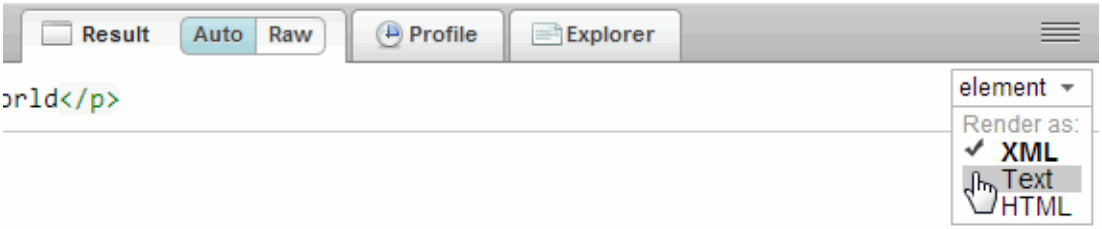
1. Click on the Content Source dropdown at the top of the editor to select a content source against which to run the query. For this example, you can use any content source.



2. Click the Run button to evaluate the query. In this case, the default "hello world" query. The prettyprinted results display in the output pane at the bottom of the page.



3. To view the query results as plain text, click the result format dropdown on the far right of the results pane and select Text. You query results display as plain text.



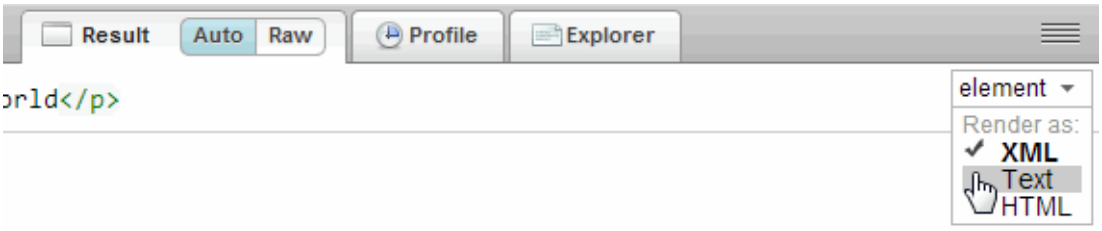
4. To view the query results without prettyprint formatting, click the Raw button on the Result tab. Your raw query results display in the results pane at the bottom of the page. For details, see “Changing the Query Output Format” on page 10.

2.4 Changing the Query Output Format

Query Console supports two modes for displaying query results, Auto and Raw. The default mode is Auto.In Auto mode, your query results are formatted for readability based on the query and the output type. For example:

- Results from an XQuery query that returns XML are displayed with syntax coloring and UI elements that allow you to expand and collapse the element tree. Sequences are unrolled to line items with individual formatting controls.
- Results from a SQL query (run in SQL mode, not XQuery) are formatted as a table.
- Results from a SPARQL query display matching IRIs.

In Auto mode, you can override the default rendering using the format dropdown at the far right of the results pane.



For example, strings are rendered as text by default, but if you know the string contains serialized JSON, you can change the rendering to JSON to get syntax highlighting and tree controls. The choices on the format dropdown depend on the type of data returned by your query.

Raw mode always displays plain text, but it is not necessarily the query results exactly as returned from MarkLogic Server. Slight formatting changes are still applied to improve readability. For example, even in Raw mode, an XQuery sequence displays as line items rather than a comma separated list of values.

2.5 Using the Query Execution History

Each time you modify a query and evaluate it, Query Console saves the contents and time of execution in the Query History. Query Console maintains a separate history for each query.

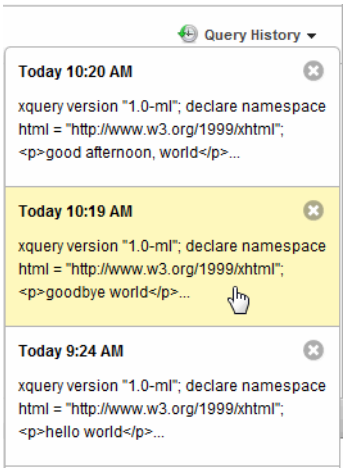
Query Console adds a history entry for each unique version of a query. If the query text is unchanged between runs or if the changes create a duplicate of an existing history entry for the query, Query Console does not create a new entry.

Query Console saves at most 50 history entries.

To use the query history:

1. Click the Query History dropdown on the upper right. The history appears, with the most recent runs at the top of the list.

2. To revert the query to a previous state, click on a history entry. The selected query version is restored in the editor.



To remove a history entry, click the delete (X) button in the upper right corner of the entry.

To close the history dropdown, click on the Query History dropdown again, or simply move the mouse outside the dropdown.

2.6 Profiling a Query

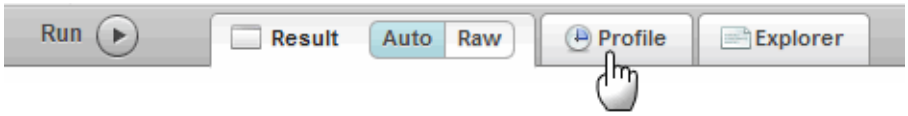
You can use Query Console to profile the performance of a query. Query Console profiles your query as if you passed your query to `prof:invoke`, and then displays a performance report in the results pane.

> **Note:** Profiling must be enabled on an App Server before you can profile a query. It is enabled by default when you create an App Server. For details, see MarkLogic

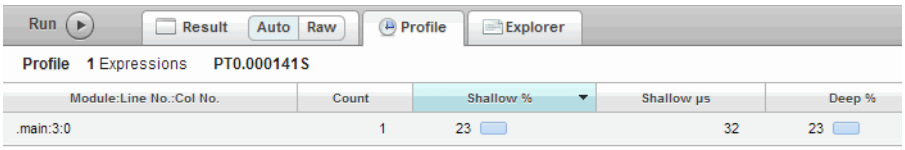
Server Profiling Requirements Capabilities in the *Query Performance and Tuning Guide*.

To profile a query:

1. Click the Profile tab at the top of the result panel. The profile tab is brought to the front.



2. Click the Run button to evaluate your query. A profiling report appears. If no profiling report appears, profiling may not be enabled for your App Server.



   Your Query Console query appears as the `.main` module in the profiling report.

3. Click on a profiling report column header to sort the profiling data by a particular column. Each time you click a column, the order toggles between ascending and descending.

4. Click on the Result tab to view the output from your query.

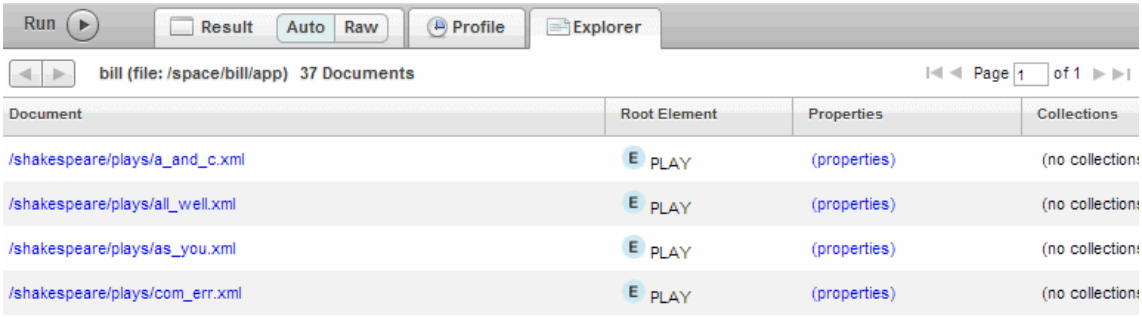
For details on profiling queries and the meaning of the profile report columns, see Profiling Requests to Evaluate Performance in *Query Performance and Tuning Guide*.

2.7 Exploring a Database

Use the Explore feature to browse the contents of a database. To explore a database:

1. Select a database from the Content Source dropdown at the top of the current query.

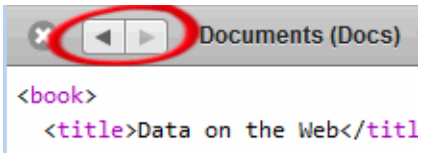
2. Click Explore, to the right of the Content Source dropdown. Query Console displays a list of the documents in the selected database in the Explorer. For example:



For each document in the database, the summary includes the document URI, the type and name of the root node, a link to the document properties, and a link to any collections to which the document belongs.

3. Click on a document URI to view the document contents.

4. Use the forward and back buttons in the upper left of the Explorer to navigate as you drill down into document contents, properties, and collections. For example, to return to the database content summary after clicking on a document's URI, click the back arrow.



5. If there are properties associated with a document, click the link in the Properties properties column to view the properties as XML.

6. If the document is part of a collection, click the collection name in the Collections column to explore that collection.

2.8 Organizing Queries with Workspaces

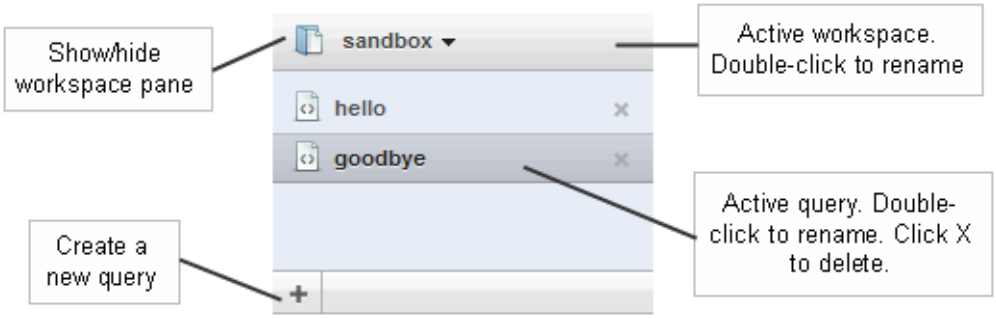
In Query Console, you organize your queries in workspaces. You can create multiple workspaces. However, only one workspace is active at a time. When you create a new query, Query Console automatically saves it in the active workspace.

- Workspace Overview
- Renaming a Workspace
- Copying a Workspace
- Deleting a Workspace

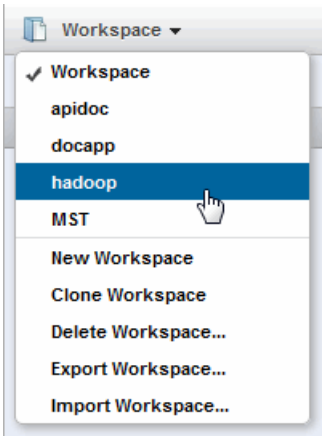
- Exporting a Workspace
- Importing a Workspace

2.8.1 Workspace Overview

Use the workspace panel on the upper right of the page to interact with or change the active workspace. The workspace panel shows the name of the active workspace and lists the queries it contains:

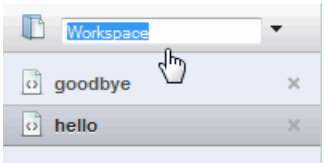


To see a list of available workspaces or to create, clone, delete, import or export a workspace, use the dropdown menu to the right of the workspace name:



2.8.2 Renaming a Workspace

To rename a workspace, double-click on the workspace name at the top of the workspace panel:



2.8.3 Copying a Workspace

To create a new workspace that contains the same queries as an existing workspace:

1. If the source workspace is not the active workspace, make it the active workspace by selecting it in the workspace menu.

2. Click Clone Workspace in the workspace menu. A new workspace named "Clone of *workspace_name*" is created and becomes the active workspace.

3. To rename the new workspace, double-click on the name at the top of the workspace panel.

When you clone a workspace, all the queries in the original workspace are copied to the new workspace. Query histories are not copied.

2.8.4 Deleting a Workspace

To delete a workspace and all of the queries it contains:

1. If the workspace to delete is not the active workspace, make it the active workspace by selecting it in the workspace menu.

2. Click Delete Workspace in the workspace menu.

3. Click OK in the confirmation dialog box to confirm deletion of the workspace.

If you delete the last workspace, Query Console automatically creates a workspace with the default initial contents.

2.8.5 Exporting a Workspace

Export a workspace to share it with another user or use it on a different MarkLogic Server instance. Exporting a workspace saves the workspace and queries to an external file which can be imported back into Query Console. Query history is not exported.

To export a workspace:

1. If the workspace to export is not the active workspace, make it the active workspace by selecting it in the workspace menu.

2. Click Export Workspace in the workspace menu. The workspace is saved as an external XML file, using your browser download facility.

By default, the exported file is named `workspace_name.xml`.

2.8.6 Importing a Workspace

To import a previously exported workspace into Query Console:

1. Click Import Workspace in the workspace menu. The "Import a Workspace" dialog box appears.

2. In the dialog box, click the Choose File button to select an exported workspace XML file.

   To cancel the import, click anywhere outside the dialog box.

3. Click `Import` to load the workspace. A loading progress window displays.

4. When loading completes, the imported workspace becomes the active workspace.

If a workspace already exists with same name as the imported workspace, the imported workspace name is modified by appending a unique number to the name.

3.0 Keyboard Shortcuts

Query Console provides keyboard shortcuts for controlling the UI minimal mouse interaction.

Where there are combination key sequences in the table below, press and hold the modifier key or keys while pressing the final key. For example, `Ctrl R` means press and hold the `Ctrl` key and then press the (lower case) `R` key.

Operation	Windows/Linux	Macintosh
Run query and show results in the currently selected output format	Ctrl Enter	Ctrl Enter
Run query and show results in Auto mode	Ctrl Shift O	Ctrl Shift O
Run query and show results in Raw mode	Ctrl Shift R	Ctrl Shift R
Profile query	Ctrl Alt Shift Enter	Ctrl Option Shift Enter
Create a new query	Alt =	Ctrl =
Close the current query	Alt -	Ctrl -
Change the relative height of the query editor and results pane. (Cycles through positions).	Double Click, or Ctrl Shift Space	Double Click, or Ctrl Shift Space
Maximize editor and hide workspace pane	Ctrl Alt ’	Ctrl Option ’
Expand/collapse query execution history	Ctrl Alt H	Ctrl Option H
Create a new workspace	Ctrl Alt W	Ctrl Option W
Clone the current workspace	Ctrl Alt Shift W	Ctrl Option Shift W
Select query above the current selection, when the workspace panel has the focus	Up Arrow	Up Arrow
Select query below the current selection, when the workspace panel has the focus	Down Arrow	Down Arrow

4.0 Administering Query Console

This chapter covers tasks specific to administering Query Console on your MarkLogic Server.

4.1 Controlling Access to Query Console

Query Console stores per user information about workspaces and queries in MarkLogic Server. Query Console uses the following pre-defined security roles:

- `qconsole-user`
- `qconsole-internal`

Users also require normal privileges to any databases or documents they access through Query Console.

For details about the MarkLogic Server security model and about configuring users and roles, see the *Understanding and Using Security Guide* and Security Administration in the *Administrator's Guide*.

4.1.1 qconsole-user

The `qconsole-user` role is a minimally privileged role that is needed to use Query Console. You must grant this role to all users who are allowed to use Query Console.

The `qconsole-user` role has the following execute privileges:

- qconsole (http://marklogic.com/xdmp/privileges/qconsole)

4.1.2 qconsole-internal

The `qconsole-internal` role is used by Query Console to amp certain functions that Query Console performs. You should not explicitly grant the `qconsole-internal` role to any user; it is only for internal use by Query Console.

4.2 Removing a User's Data From the Server

When Query Console users create workspaces and queries, the data is saved on the server in the App-Services database. If you need to remove all of a user's Query Console state information from the server, use a script similar to the following script.

For further assistance, contact MarkLogic Technical Support.

```
xquery version "1.0-ml";

declare namespace qc="http://marklogic.com/appservices/qconsole";

(: find the user id associated with a user name :)
declare function local:get-user-id($user-name as xs:string)
{
  let $eval :=
```

```
    fn:concat(
      'xquery version "1.0-ml";
       import module namespace
           sec="http://marklogic.com/xdmp/security"
                  at "/MarkLogic/security.xqy";
       sec:uid-for-name("', $user-name, '")')
  let $options :=
    <options xmlns="xdmp:eval">
      <database>{xdmp:database("Security")}</database>
    </options>
  return
  xdmp:eval($eval, (), $options)
};

(: retrieve all workspace URI's for a named user :)
declare function local:get-workspace-uris(
  $user-name as xs:string)
{
  let $user-id := local:get-user-id($user-name)
  return
    if (fn:empty($user-id))
    then ()
    else
    for $d in fn:doc()/qc:workspace/qc:security[qc:userid eq $user-id]
      return base-uri($d)
};

(: retrieve id's for all queries in a given workspace :)
declare function local:get-query-ids(
  $workspace-uri as xs:string)
{
  for $qid in
    fn:doc($workspace-uri)/qc:workspace/qc:queries/qc:query/*:id
  return $qid
};

(: Retrieve id's of all history entries associated with a query id :)
declare function local:get-query-history(
  $qid as xs:unsignedLong)
{
  for $d in fn:doc()
  where $d/qc:history/qc:query[qc:id eq $qid]
  return base-uri($d)
};

let $user-name := xdmp:get-request-field("username")
let $user-documents :=
  for $ws in local:get-workspace-uris($user-name)
  return (
    for $qid in local:get-query-ids($ws)
    return
      (
        fn:concat("/queries/", $qid, ".txt"),
        local:get-query-history($qid)
```

```
      ),
      $ws
    )
for $d in $user-documents
return xdmp:document-delete($d)
```

5.0 Appendix: Differences Between Query Console and CQ

Query Console is a fully supported query development tool which includes all the features of CQ. Most Query Console concepts and features should feel familiar to experienced CQ users, but there are some differences, as summarized in this section.

- Query Console Installs with MarkLogic Server
- Workspaces Replace Sessions
- Queries Replace Buffers
- Session and Query Data Are Stored on the Server
- Query History is Per Query

5.1 Query Console Installs with MarkLogic Server

Query Console installs when MarkLogic Server is installed. Any user in the `qconsole-user` role may use the tool. No additional configuration is necessary to begin using Query Console.

To access Query Console, navigate to:

```
http://your_ml_server:8000/qconsole
```

5.2 Workspaces Replace Sessions

CQ sessions are equivalent to Query Console workspaces. As with CQ sessions, Query Console workspaces may be created, deleted, and cloned.

Query Console workspaces differ from CQ sessions in the following ways:

- Workspaces may be renamed.
- Workspaces list queries by name, rather than by position/contents.
- Query Console stores workspace data on the server, rather than local to your browser. Therefore, your workspaces and queries are available from any host which can communicate with your MarkLogic Server instance.
- A workspace may be exported from one Query Console session and imported into another, allowing you to easily share queries among users or across MarkLogic Server instances.

5.3 Queries Replace Buffers

CQ buffers are equivalent to Query Console queries. As with CQ buffers, Query Console queries may be created, deleted, and restored from history.

Query Console queries differ from CQ buffers in the following ways:

- Queries are named. The tool supplies a default name when you create a query. You may change the name by double-clicking on the query name in the editor or workspace.
- More than one query may be open for editting at a time.
- The query editor displays line numbers.

5.4 Session and Query Data Are Stored on the Server

In CQ, sessions are stored in a `sessions` sub-directory under your CQ application server root. Though you may share a CQ session and its buffers by copying the session XML file from this location, sessions are otherwise unavailable if you change computers.

Query Console stores your workspace and query data in MarkLogic Server, so your queries are available from any host which can reach your server. Workspaces and their queries cannot be shared across users.

5.5 Query History is Per Query

In CQ, each time you execute the query in a buffer, the query text is saved in the query history. All queries in a session share a single query history.

In Query Console, each query has its own history, making it easier to manage and restore historical versions of queries.

See Using the Query Execution History for more details.

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If reporting a query evaluation problem, be sure to include the sample XQuery code.

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