

Querying and Updating Databases with ASP, ADO and VBScript

A Two Day Training Course

Course Aims:

This is an in-depth, practical, introductory course for IT developers operating in the **Microsoft IIS** environment who wish to create browser-driven applications which query or update databases (eg **SQL, Access** etc).

The focus is on developing skills in using the **VBScript, ASP** and **ADO** elements necessary to perform common database-related tasks which present results in the browser.

Course Outline:

ASP and VBScript

- ASP Explained
- Server-Side and Client-Side Scripts
- The Role of ASP.DLL
- Preparing Scripts
- Including Markup
- Variables and Operators
- Using Option Explicit
- Passing Parameters
- Comparisons and IF
- Looping

Objects Properties and Methods

- Objects Properties and Methods Explained
- ASP Objects Properties and Methods
- Transferring Information - The HTTP Protocol
- Using the Request and Response Objects

Receiving and Returning Information

- The HTML Form: Post and Get
- Using the QueryString Collection
- Using the Form Collection
- The Request Object Shorthand
- The Response.Write Shortcut
- Working with the HTML Output Stream

Introducing the Server Object

- About the Server Object
- The HTMLEncode Method
- Server.Execute and Server.Transfer

The Application and Session Objects

- About the Application Object
- Application Variables and the Contents Collection
- Application-scope Variables and global.asa
- About the Session Object
- Session Variables and the Contents Collection
- Some Session Properties
- Session.Contents Methods
- Creating the global.asa

Introducing Data Store Access

- About Object DataBase Connectivity (ODBC)
- Introducing ActiveX Data Objects (ADO)

Working with the Connection Object

- Instantiating an ADO Connection Object
- Using Connection Strings
- Opening and Closing Connections

Working with Recordsets

- Instantiating a Recordset Object
- Connecting to a Data Store
- The Recordset Object Open Method
- Accessing Records in a Recordset Object
- Using Include Files to Simplify
- Using the Standard ADO Constants
- The Cursor
- Moving Through Records
- Working with Bookmarks

More Work with RecordSets

- The PageSize Property
- The AbsolutePage Property
- Using the AbsolutePage property
- The RecordCount Property
- The AbsolutePosition Property
- Finding Records
- Working with the Criteria Syntax
- Filtering Records
- Using the Fields Collection

Working with The Command Object

- Creating a Command Object
- Specifying the Command
- Specifying Command Criteria -
Introducing SQL

- Selecting Subsets of a Table (or
Catalog)
- Selecting Fields from a Table (or
Catalog)
- Conditional Selecting
- Creating a Recordset

Updating, Deleting and Inserting Data

- About Modifying a Data
StoreReturning the Number of
Records Affected
- The UPDATE Command
- The DELETE Command
- The INSERT Command

Target Audience:

The course can be extended for those without this experience.

Assumed Knowledge:

For the two-day course, good exposure to HTML/XHTML, along with some basic programming (or scripting) experience, is assumed.