The Building Blocks of the DataTable



Paul D. Sheriff
BUSINESS SOLUTIONS ARCHITECT, FAIRWAY TECHNOLOGIES, INC.
www.fairwaytech.com psheriff@fairwaytech.com



Module Goals



Create a DataTable from scratch

Clone and Copy a DataTable

Select rows from a DataTable

Copy DataTable row by row

Copy DataTable using built-in method



Build DataTable



Create DataTable

Instantiate new DataTable

Add DataColumn to Columns collection

Specify properties for DataColumn
(DataType,
ColumnName,
Caption, etc.)



Add Data to DataTable

Call NewRow() on DataTable object

Set column names with appropriate data

Add row to Rows collection





Create DataTable from scratch



Clone and Copy

Clone() creates new DataTable with structure only

Copy() creates new DataTable with structure and data





Clone and copy a DataTable



Select() Method

Select() filters row and creates array of DataRow objects

Loop through all rows

Create new DataTable using ImportRow()

Call AcceptChanges() when done





Select and copy data rows



CopyToDataTable() Method

Select() rows to create array of DataRow objects Create new
DataTable using
CopyToDataTable
method

No need to loop through each row





Use CopyToDataTable() method



Summary



Can build DataTables from scratch

- No need to connect to a database

Add rows of data

Clone and copy

Select a subset of rows

Create new DataTable objects from existing objects





Coming up in the next module...

Create/break apart connection strings

Create data modification statements

