Disconnected Classes Are Useful



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



Module Goals



Fill a DataTable

- Using a SqlDataAdapter
- Create generic lists from DataTable
- Use Field() extension method

Use a DataSet class for multiple result sets

Sort and filter data using a DataView



DataTable and DataSet



DataTable

Fill with a SqlDataAdapter

A set of rows and columns are created

Connection closed

DataTable is in memory





Loading a DataTable

Loop through rows and columns



Create Generic List<T>

Convert DataTable to Enumerable

Use Field<T> method

Handles nullable fields





Create generic list from DataTable



DataSet

A collection of DataTable objects

Multiple SELECT statements create multiple DataTable objects





Multiple result sets and DataSet class



DataView



DataView Class

A bindable view of a DataTable

Sort property

RowFilter property

Edit data in memory





Sort data in a DataView





Restrict DataView using RowFilter property





Create DataView using LINQ





DataView to DataTable



Summary



DataTable is all in memory

Easy to create a generic list from a DataTable

Use a DataSet for multiple result sets

Use a DataView to sort and filter





Coming up in the next module...

Create a DataTable from scatch Cloning, copying, selecting rows

