Debugging Packages

Exploring debugging tools in Integration Services

pluralsight
see what you can learn

Overview

- Breakpoints
- Debug Windows
- Script Task Debugging
- Script Component Debugging
- Data Viewer

Breakpoints
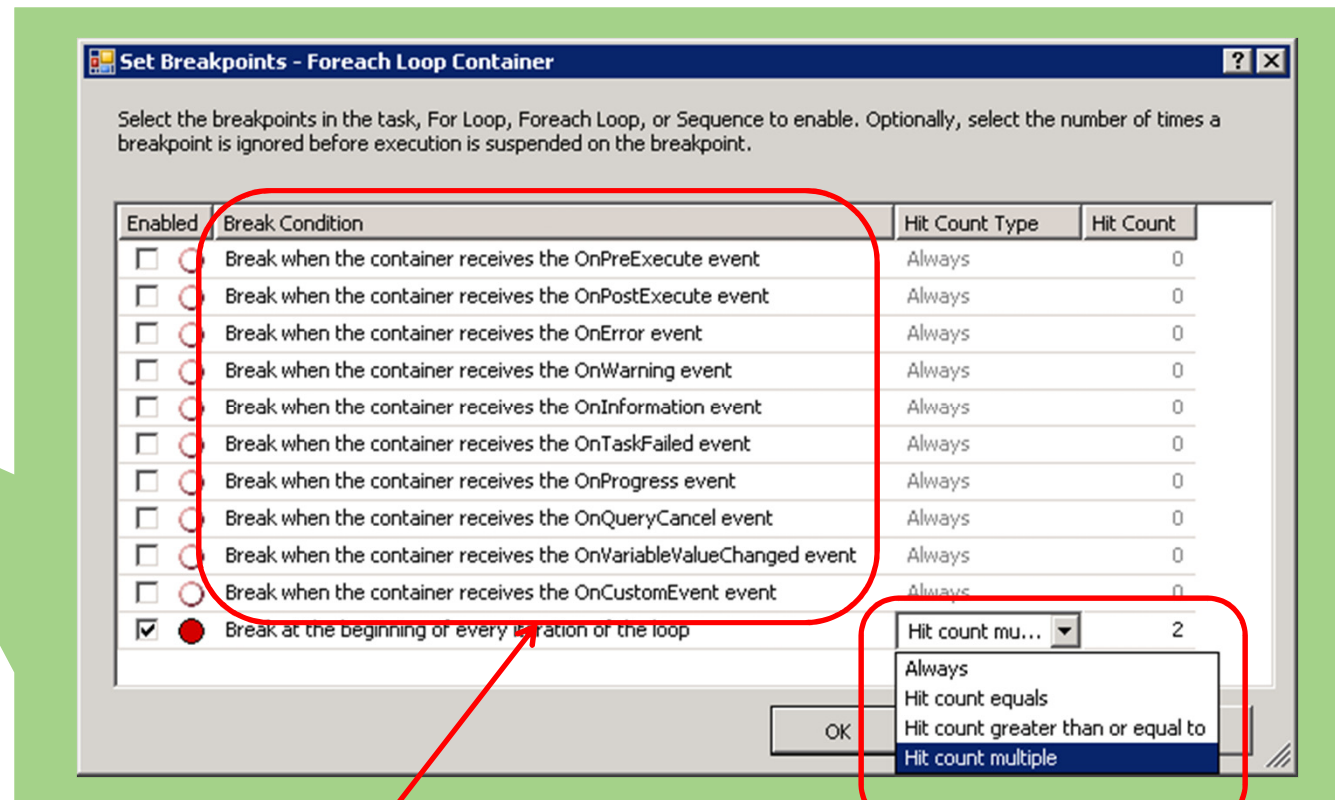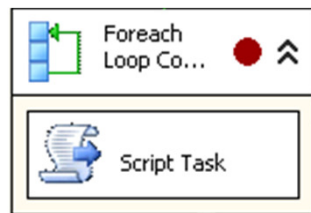
Event-based break conditions

Hit count type

Debug Windows

Locals

Watch

Right-click and select
Add Watch

Right-click and select
Edit Value

Debugging the Script Task

Query a variable
Modify a variable
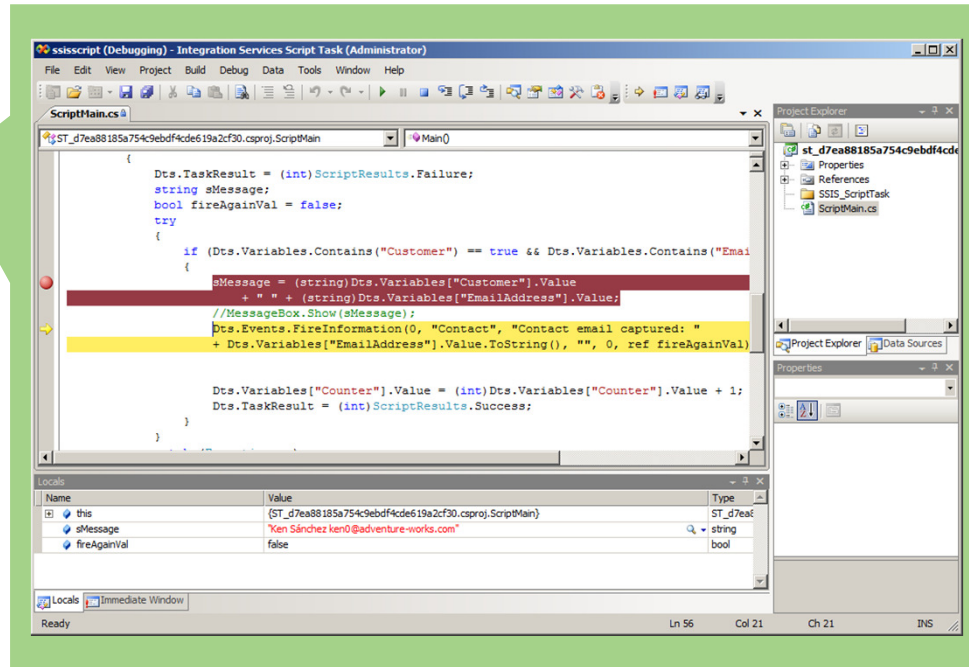
Important:

Run project in

32-bit mode to debug scripts

pluralsight
see what you can learn
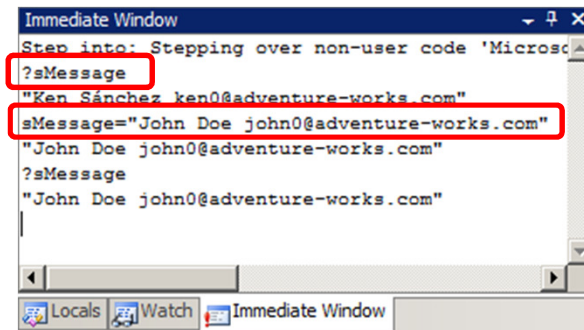
Debugging a Script Component

- **Add a data viewer**

- **Call an event method in the code**

```
this.ComponentMetaData.EventMethod(
        informationCode, subComponent, description,
        helpFile, helpContext, ref fireAgain)
```

- **Use SSIS logging by calling the Log method in the code**

```
this.Log(messageText, dataCode, dataBytes)
```
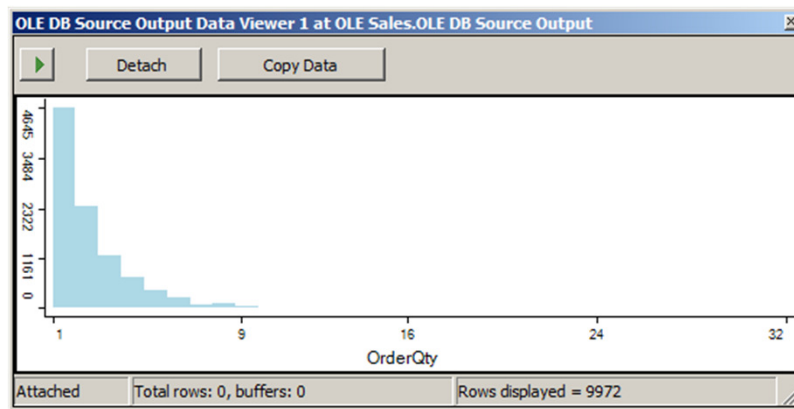
- **Use a MessageBox**

```
System.Windows.Forms.MessageBox.Show(messageString)
```

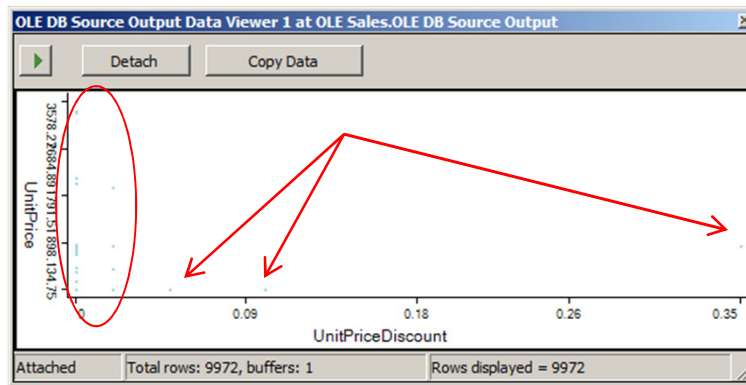![pluralsight — see what you can learn]
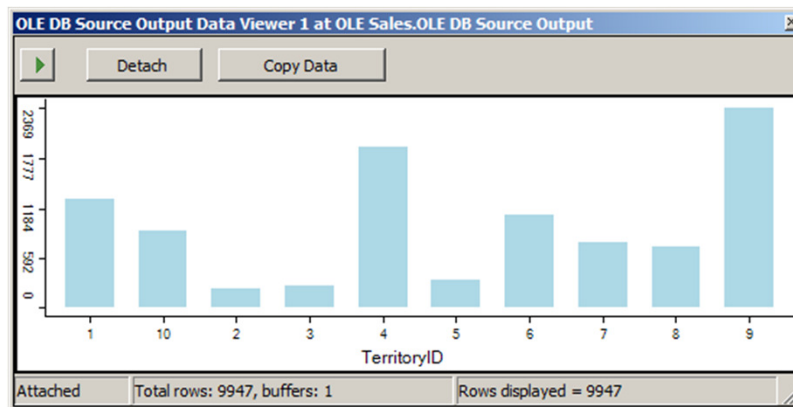
Data Viewer

- **Grid**

- **Histogram**

Data Viewer

- **Scatter Plot**

- **Chart**

Summary

- **Breakpoints**
  - Task or container, event-based conditions, configurable hit count for loops
- **Debug Windows**
  - Locals and watch windows, update variable value during runtime
- **Script Task Debugging**
  - Breakpoints in script, separate debug windows, 32-bit mode in BIDS
- **Script Component Debugging**
  - Data viewer, script options: event method, log method, message box
- **Data Viewer**
  - Grid, histogram, scatter plot, chart

References

- **Debugging Control Flow**
    - http://msdn.microsoft.com/en-us/library/ms140274.aspx
- **Debugging Script**
    - http://msdn.microsoft.com/en-us/library/ms142157.aspx
- **Debugging Data Flow**
    - http://msdn.microsoft.com/en-us/library/ms137944.aspx