

Angela Henry



# Intro to Integration Services

# Angela Henry

Angela is a DBA/BI Developer, living in High Point, NC and loves what she does. She's worked with all versions of SQL Server & worn all the hats that come with dealing with SQL Server throughout the years: developer, administrator, data architect and BI developer.

She earned her MSCE: Business Intelligence in 2015.

She is also the local group leader for the PASS Triad SQL User Group in Greensboro, NC.

Tweets at @SQLSwimmer

Blogs at [SQLSwimmer.wordpress.com](https://SQLSwimmer.wordpress.com)

In her spare time you can probably find her in the pool, she's an avid US Masters swimmer.





What is it?

Basics

Deployment

Monitoring

Performance

Overview

# What is Integration Services?



# Basics

Deployment Model

Connections

Packages

Project Parameters



# Deployment Model

Project Deployment (2012+)

Package Deployment (Pre 2012)



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# Model & Properties Demo

# Connections

Connection Manager (Project level)

Package Connections (Package level)





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# Connections Demo

# Packages

Control Flow

Data Flow

Logging



# Control Flow

## Tasks

- Data Flow
- Exec SQL
- File System
- Execute Process
- Execute Package
- Analysis Services Processing
- +Many Many More

## Containers

- For Loop
- Foreach Loop
- Sequence



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# Control Flow Demo

# Data Flow

## Source

- ADO .Net
- OLE DB
- Flatfile
- XML
- Excel



## Transformations

- Aggregate
- Conditional Split
- Derived Column
- Lookup
- Row Count
- Merge
- Slowly Changing Dimension



## Destination

- ADO .Net
- OLE DB
- Flat File
- Excel





# Data Flow Demo

# Logging

SQL Server

Text Files

XML Files

Windows Event Log

SQL Server Profiler





# Logging Demo





Deployment

# Deployment

Within Visual Studio

Using ISPAC/Deployment Wizard





# Monitoring

# Monitoring

SSMS for Monitoring

3<sup>rd</sup> Party Tools





# Monitoring Demo



Performance

# Performance Tips

Use Fast Load option in Destination

Use Cache Manager for Lookups when Possible

DON'T USE SQL Server Destination

Avoid Blocking Transforms

