



Module 5

Architectures, Features, and Details of Data Integration Tools

Lesson 2: Common Features of Data Integration Tools

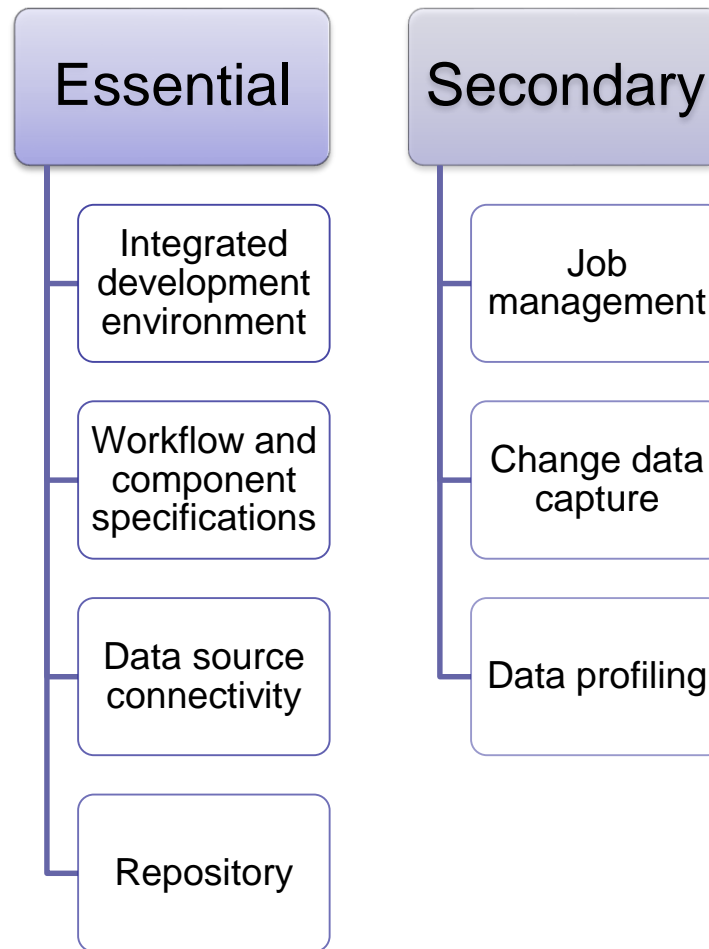


Lesson Objectives

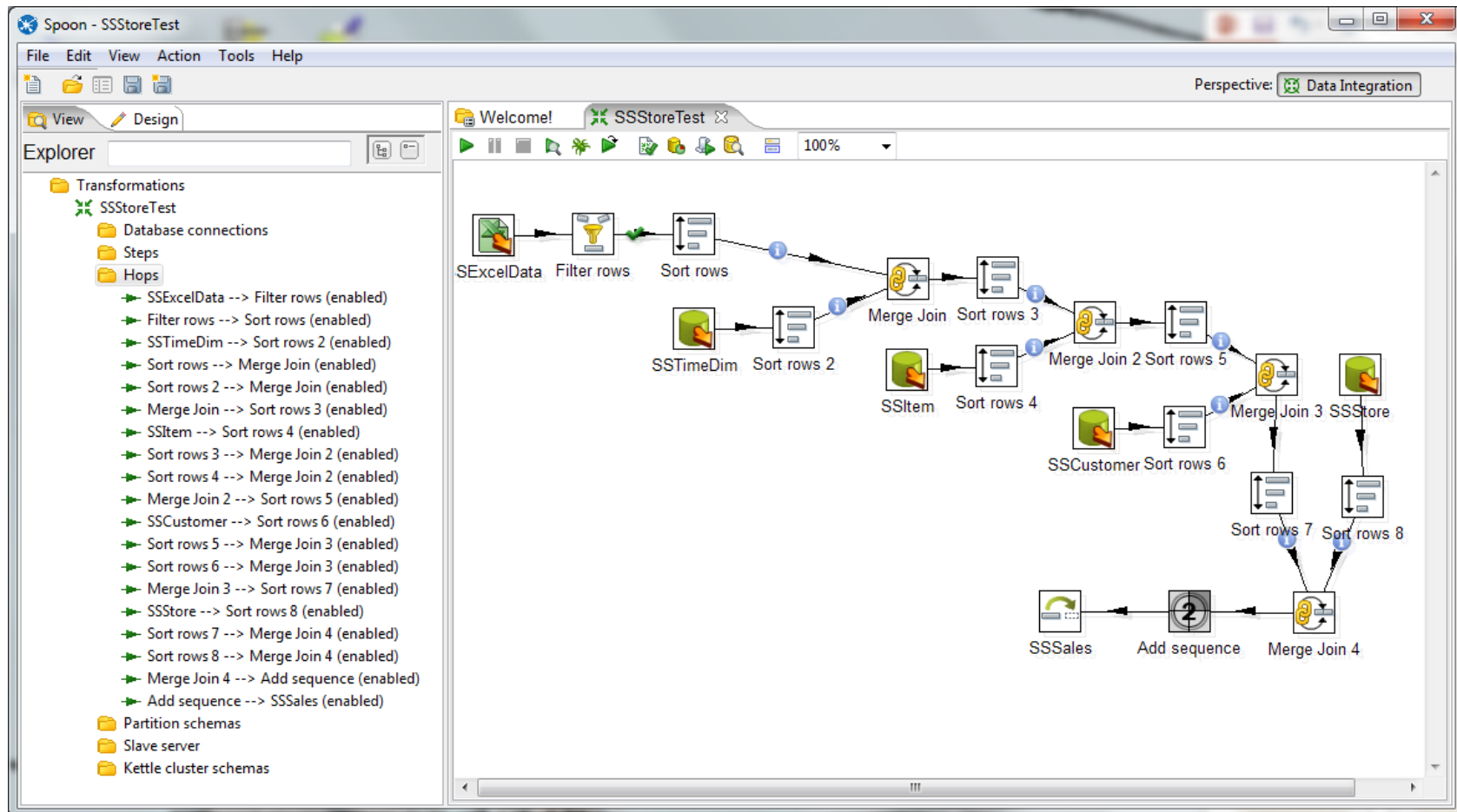
- Describe common features of data integration tools
- List some common transformation processes supported by data integration tools



Feature Overview



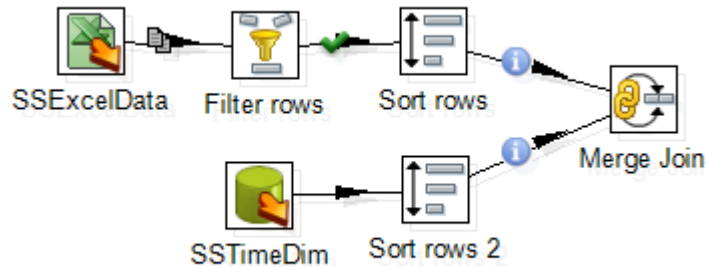
IDE Overview



Workflow and Component Specification

Specification Window

Workflow



The screenshot shows the 'Merge Join' specification window. It contains the following fields and tables:

Step name: Merge Join

First Step: Sort rows

Second Step: Sort rows 2

Join Type: INNER

Keys for 1st step:

#	Key field
1	Day
2	Month
3	Year

Keys for 2nd step:

#	Key field
1	TIMEDAY
2	TIMEMON...
3	TIMEYEAR

Buttons: Get key fields, Get key fields, Help, OK, Cancel

Workflow Components



Processing



Orchestration



Business intelligence



Database



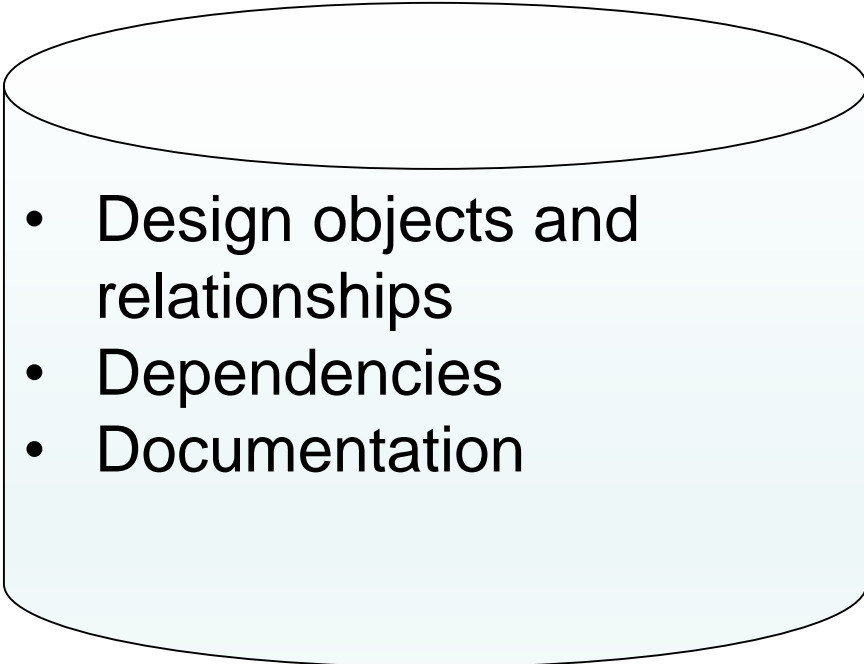
Data quality



File processing

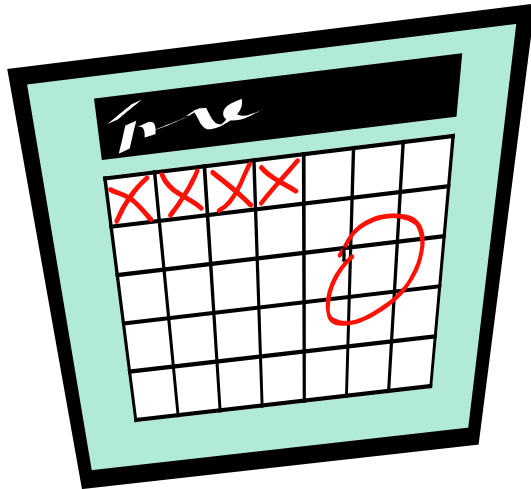


Repository

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- Design objects and relationships
 - Dependencies
 - Documentation



Job Management



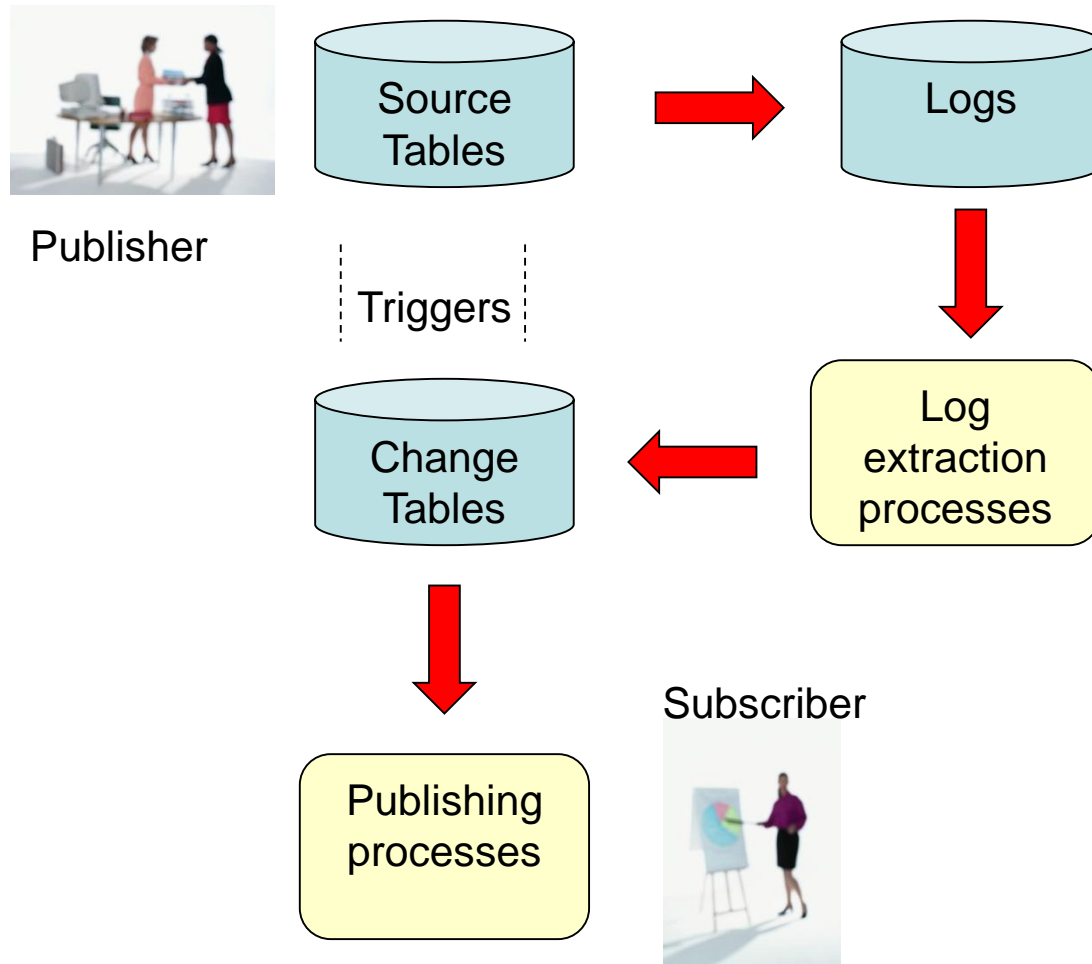
Data Profiling



- Descriptive statistics and distribution
- Null values
- Uniqueness
- Pattern matching coverage
- Field relationships



Change Data Capture



Summary

- Strong trend for integrated development environments
- Features for graphical specification, workflows, repository, change data capture, job management, and data profiling

