Module 5
Architectures, Features, and Details of Data Integration Tools

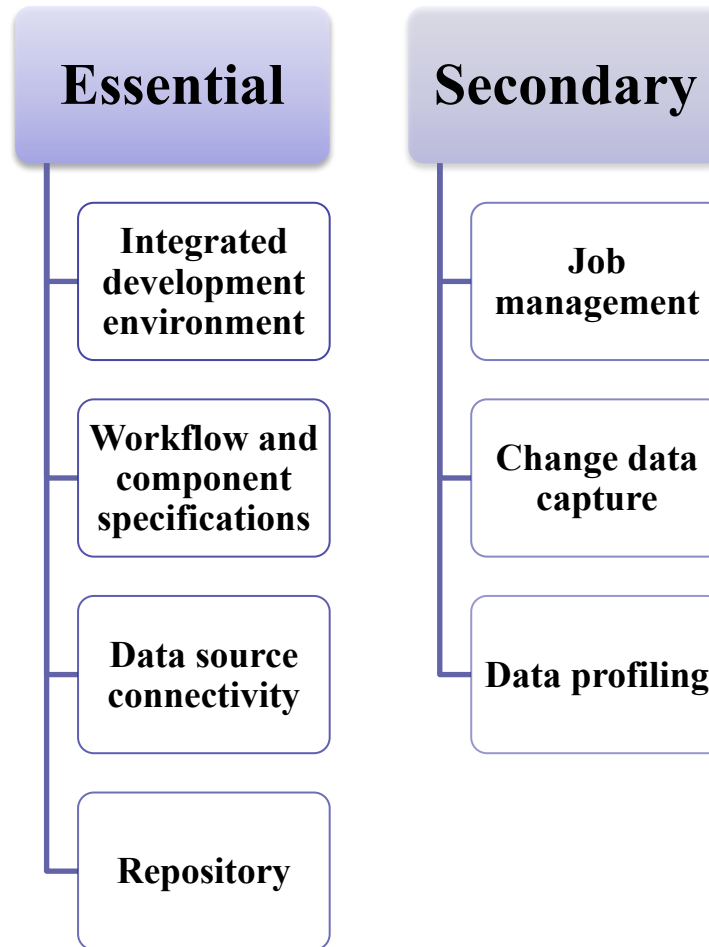## Lesson 2: Common Features of Data Integration Tools
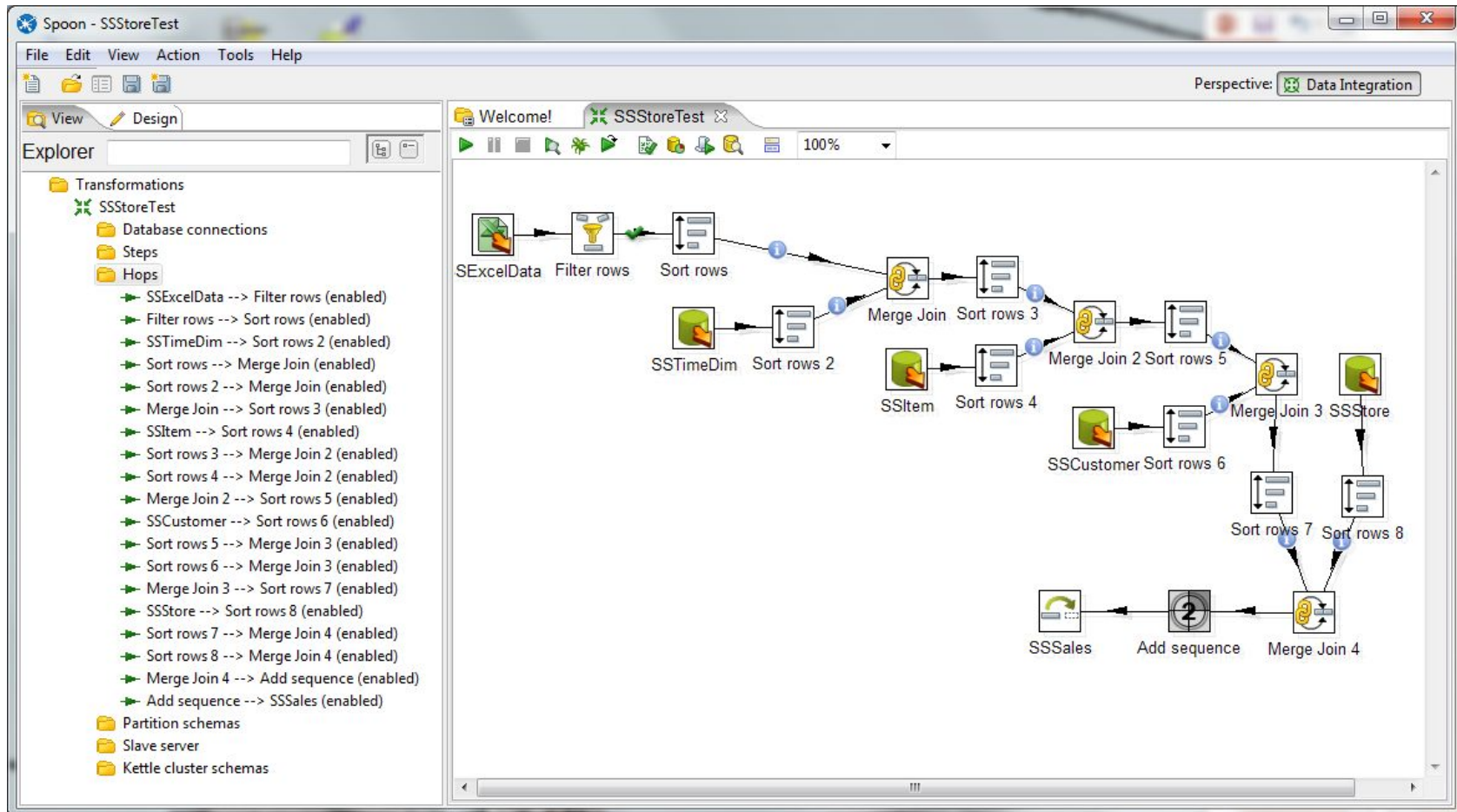
Lesson Objectives

- Describe common features of data integration tools

- List some common transformation processes supported by data integration tools
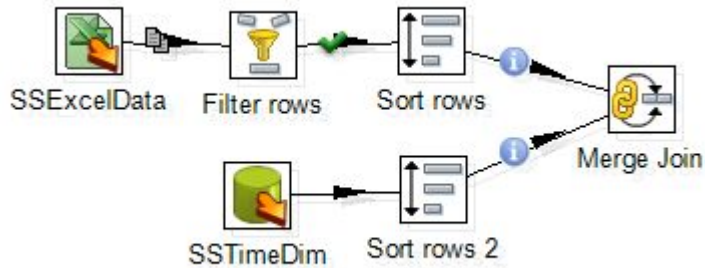
Feature Overview

Essential

- Integrated development environment
- Workflow and component specifications
- Data source connectivity
- Repository

Secondary

- Job management
- Change data capture
- Data profiling

IDE Overview

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Information Systems Program

Workflow and Component Specification

Specification Window

Workflow

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Workflow Components

Processing

Orchestration

Business intelligence

Database
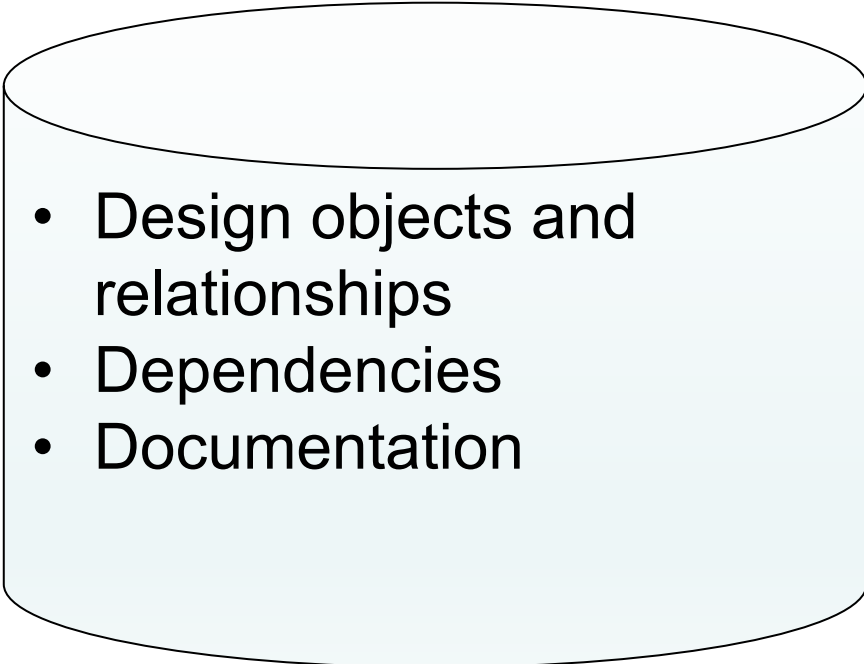
Data quality

File processing

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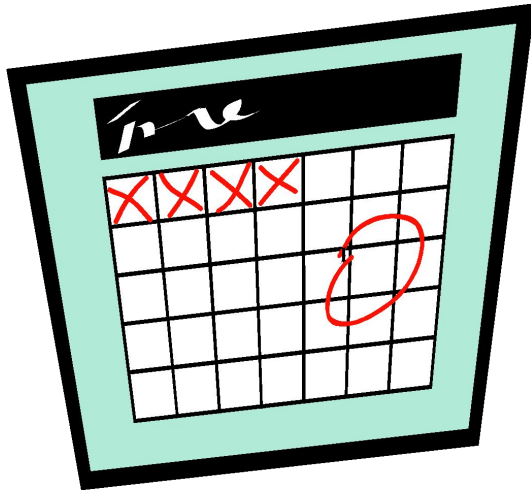UNIVERSITY OF COLORADO DENVER

Repository

- Design objects and relationships
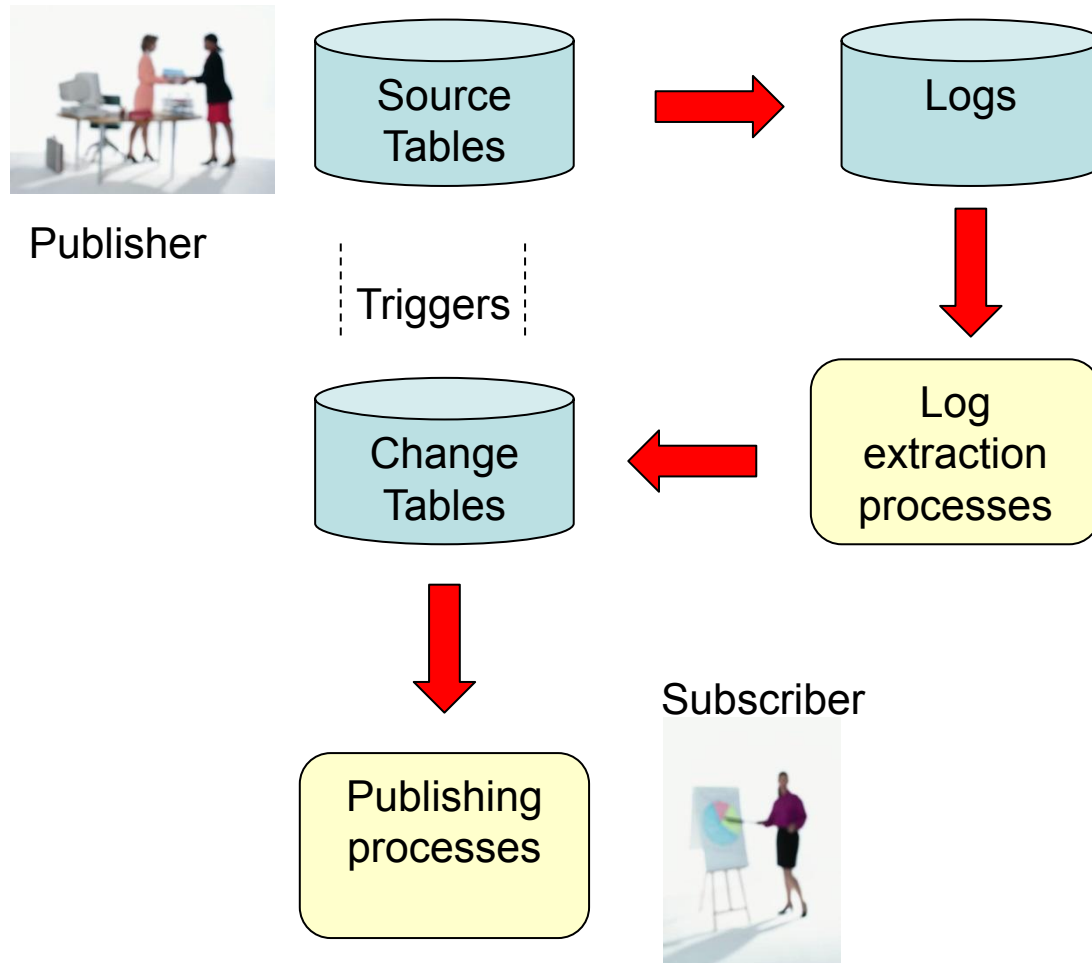- Dependencies
- Documentation

Job Management

Data Profiling

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

Change Data Capture

Publisher

Source Tables → Logs

Triggers

Log extraction processes → Change Tables

Change Tables → Publishing processes

Subscriber

Summary

- Strong trend for integrated development environments

- Features for graphical specification, workflows, repository, change data capture, job management, and data profiling