



Business School
UNIVERSITY OF COLORADO **DENVER**

Information Systems Program

Module 5

Architectures, Features, and Details of Data Integration Tools

Lesson 3: Talend Open Studio



Lesson Objectives

- List major features of Talend Open Studio for data integration
- Gain familiarity with Talend features for jobs and transformations
- Explore more details about Talend Open Studio



Talend Product Editions

- Community edition with a standard open source license
- Enterprise editions with a subscription service for technical support and extended features
- Several enterprise and platform editions for Talend Data Integration product



Data Integration Features



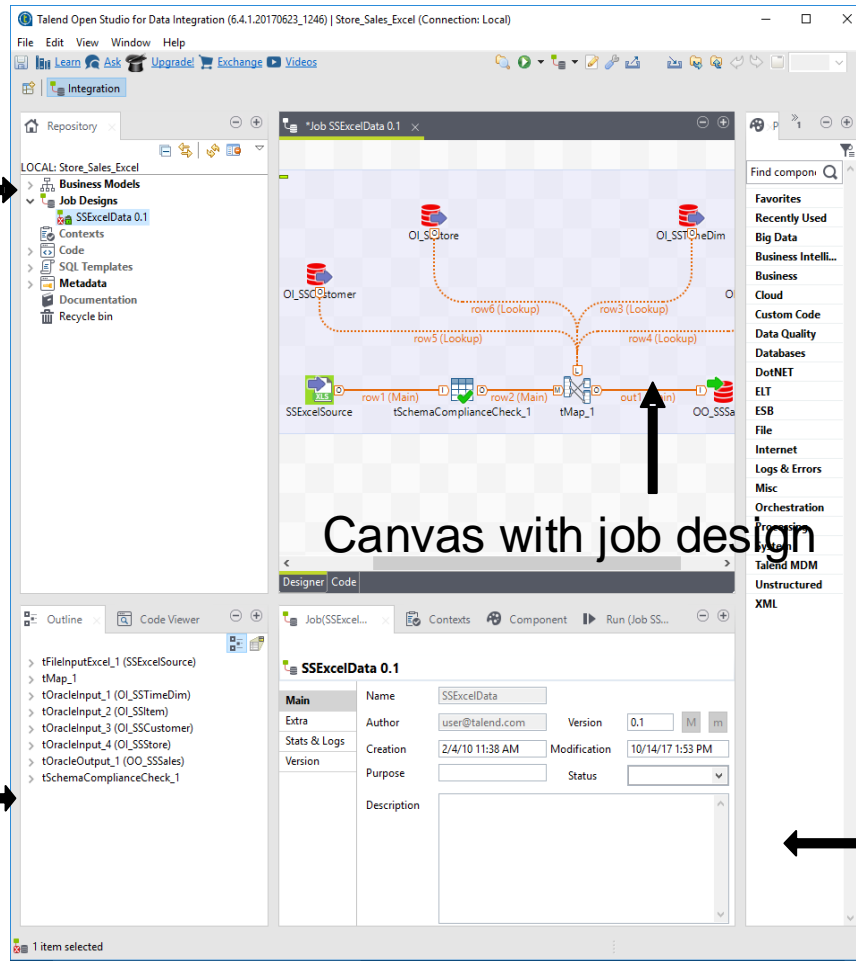
- Graphical job design using components
- Palette of data transformation components
- Job execution with database connectivity
- Meta data repository



Talend IDE

Repository
pane






















Design
pane



Component
palette

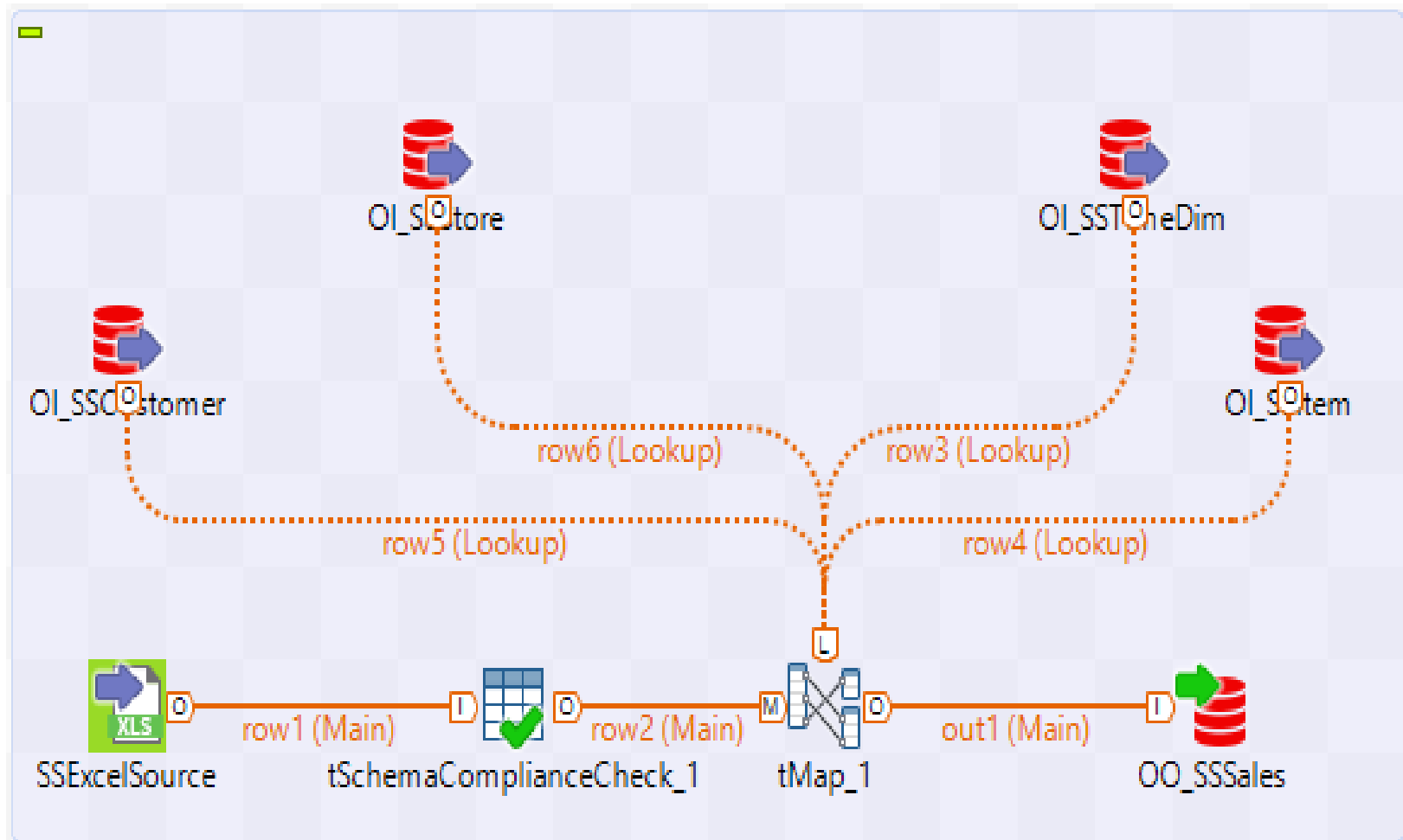
Job
pane

Palette with Components

| Category | Prominent Components | | |
|--------------|---|--|--|
| Data quality |  tUniqRow |  tIntervalMatch |  tSchemaComplianceCheck |
| Databases |  tOracleConnection |  tOracleInput |  tOracleOutput |
| ELT |  tELTOracleInput |  tELTOracleOutput |  tCombinedSQLFilter |
| Processing |  tMap |  tSortRow |  tConvertType |
| Internet |  tHttpRequest |  tSendMail |  tSocketInput |
| XML |  tExtractXMLField |  tXSDValidator |  tXSLT |
| Big data |  tGSCConnection |  tGSCopy |  tGSDelete |



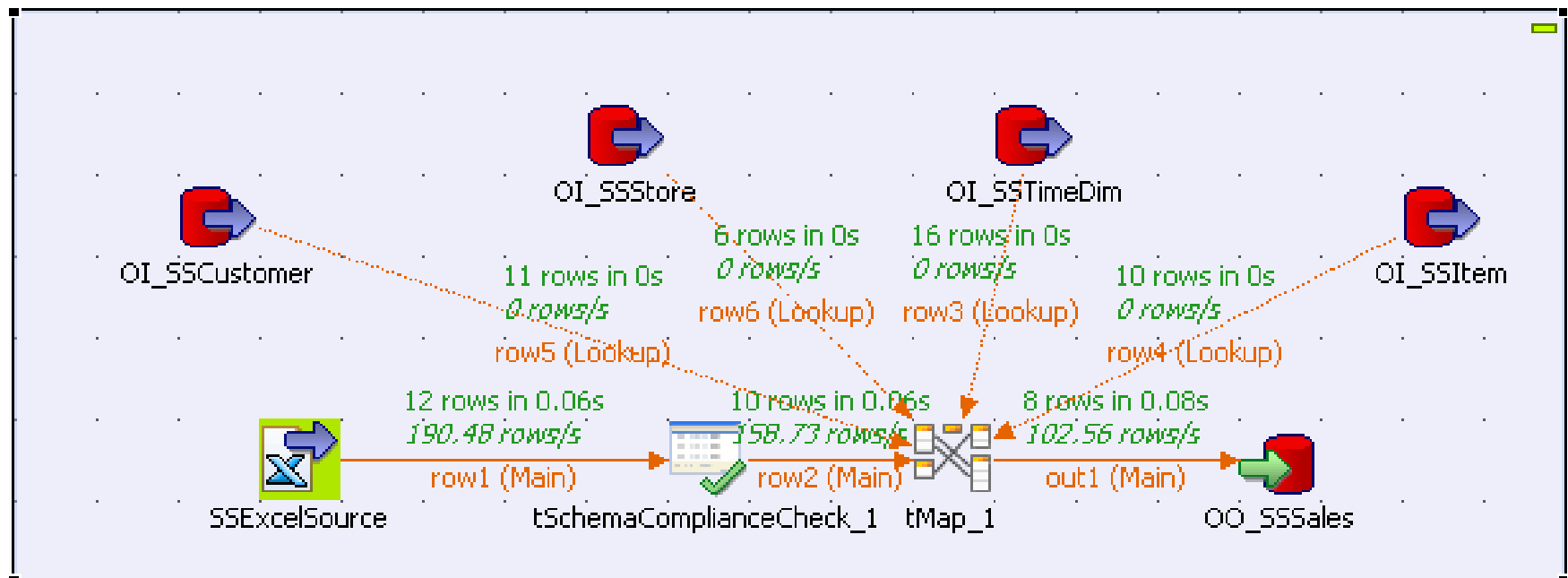
Simple Job Design



Component Details

| row1 | |
|--------------|----------------|
| Column | |
| SaleUnits | |
| SalesDollar | |
| SaleCost | |
| CustID | |
| StoreID | |
| ItemID | |
| Day | |
| Month | |
| Year | |
| row2 | |
| Unique match | |
| Inner join | |
| Expr. key | Column |
| | TIMENO |
| row1.Day | TIMEDAY |
| row1.Month | TIMEMONTH |
| | TIMEQUARTER |
| row1.Year | TIMEYEAR |
| | TIMEDAYOFW... |
| | TIMEFISCALY... |

Job Execution Example



Summary

- Prominent open source data integration tool
- Supports graphical specification of transformations, components, and job management
- Install and use Talend for more details



Open Core Model

- Feature-limited core product under a standard open source
- Commercial versions with proprietary extensions
- Paid support services
- First commercial open source vendor
- Becoming widespread

