

Using Data Job References within a Data Job

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Business Scenario

Consider having to do the same set of processing on many different tables.

Business Scenario:

Twenty regional business units need to process their sales data by standardizing a variety of fields, parsing an email field, and generating match codes for a set of fields. This can be accomplished by creating twenty different data jobs and configuring the Standardization, Parsing, and Match Codes nodes in each of the twenty jobs.

It would likely be easier to configure each of the nodes (Standardization, Parsing, Match Codes) once in a "template" data job, then simply pass the twenty data inputs in to the template.

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Template Data Jobs

Two nodes are needed if you choose to design and use template data jobs:

- Data Job (reference)
- External Data Provider

Data Job (reference) Node:

Used to embed a data job within a data job.

External Data Provider Node:

Provides a landing point for source data that is external to the current job.



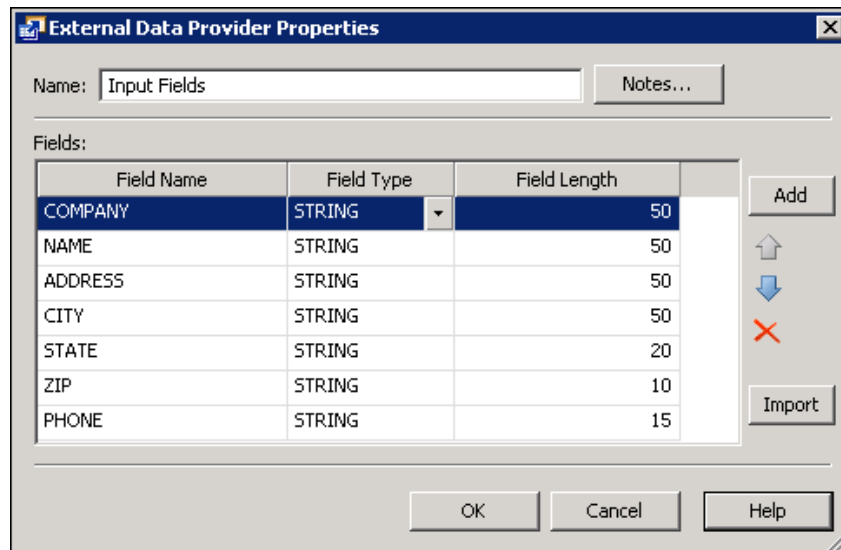
9

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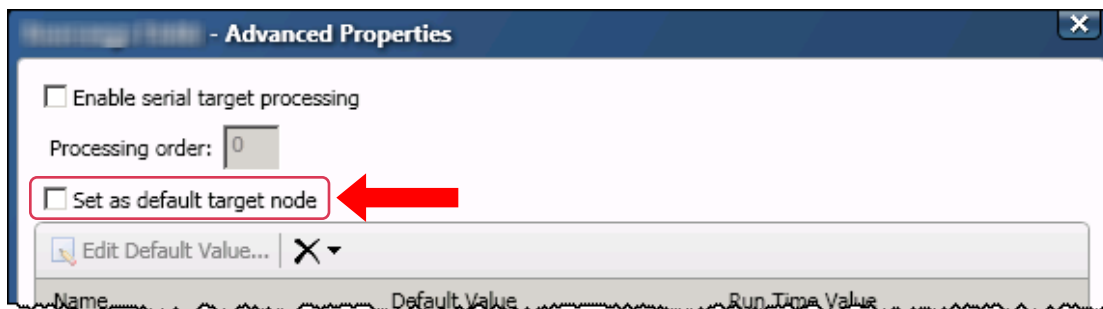


To design a data job using a template data job, first you define the template data job. The template job is often referred to as the referenced data job or the embedded data job.

A requirement for the template data job is that it must begin with the External Data Provider node. This node is used to define a set of generic fields (much like the generic fields used in a business rule). The fields defined in the External Data Provider node will be propagated to subsequent nodes in the referenced job. If fields are named according to intended content-type, then it will be easy to choose appropriate definitions in subsequent nodes. Below we see the properties of an instance of the External Data Provider where seven generic fields are defined.



An additional requirement for the template data job is that the final node must be defined as the node to deliver the results out to a calling data job. This property is set by selecting **Set as default target node** in the Advanced Properties window of the final node.



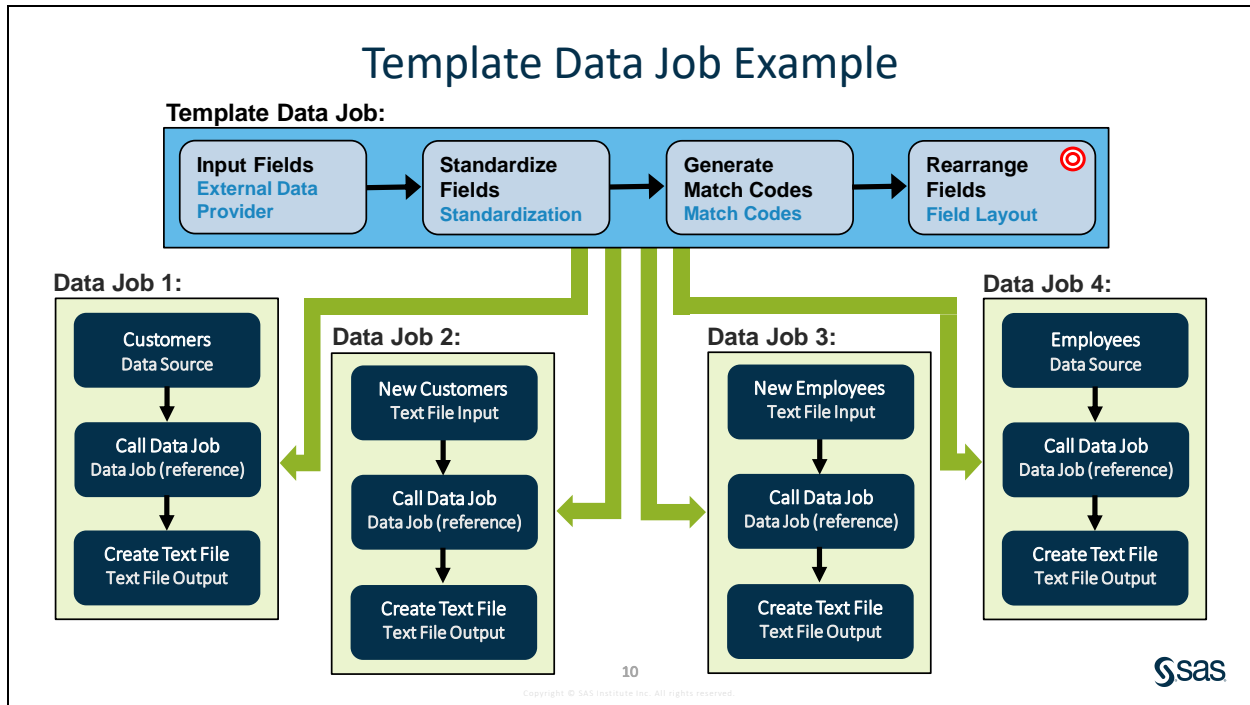
Once the template data job is defined and saved, it can be referenced from one or more data jobs using the Data Job (reference) node.

Data is passed from the parent job to the referenced data job, processed, and returned to the flow in the parent job.

The Data Job (reference) node is found in the Data Job grouping of nodes.

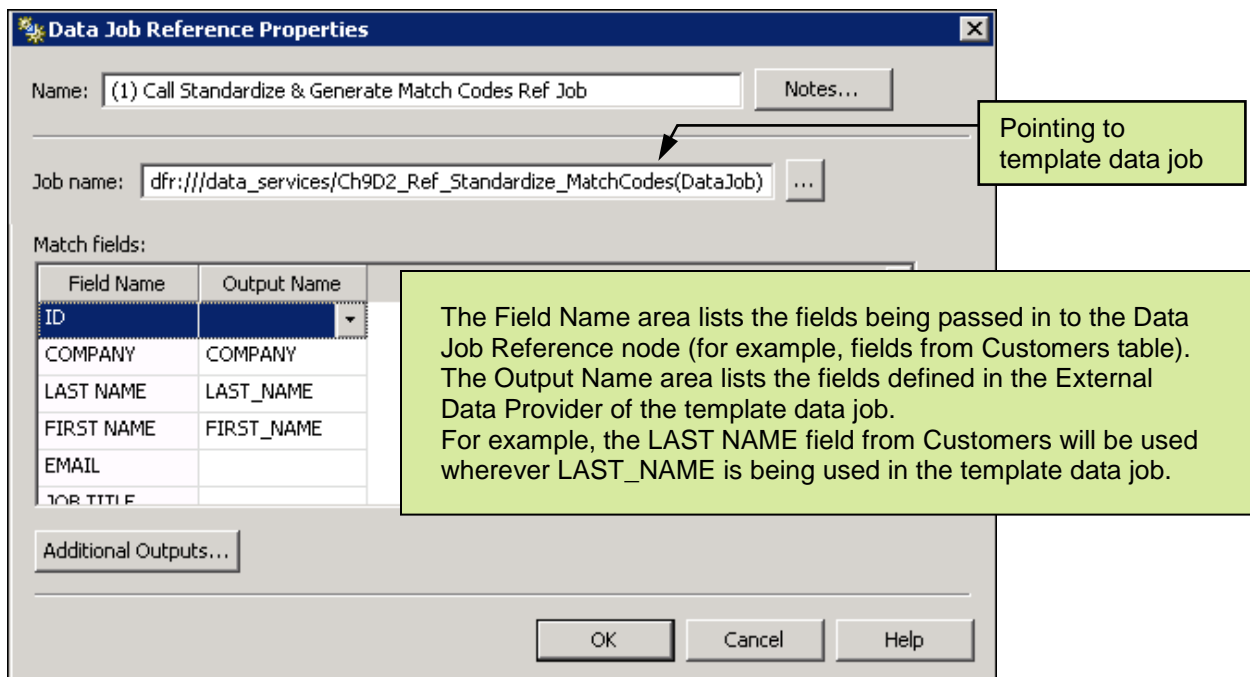
The External Data Provider node is found in the Data Inputs grouping of nodes.

Data jobs that begin with an External Data Provider node can also serve as a real-time data service. Real-time data services are executed on an instance of Data Management Server.



In the example shown, a template data job has been created that standardizes some fields, generates match codes on some fields, and rearranges the field order of the result set. The template data job starts with an External Data Provider node and the last node (the Field Layout node) has been identified as the target node.

The template data job is then “called” from four different data jobs. Each of the four data jobs have the Data Job (reference) node. Each Data Job (reference) node points to the template data job. And each Data Job (reference) node maps the incoming fields to the fields defined in the External Data Provider node of the template data job.



x.01 Multiple Choice Poll

What node is used to convert a data job into a real-time data service that can be executed on the Data Management Server?

- a. Data Source node
- b. Job Specific Data node
- c. External Data Provider node
- d. Work Table Reader node

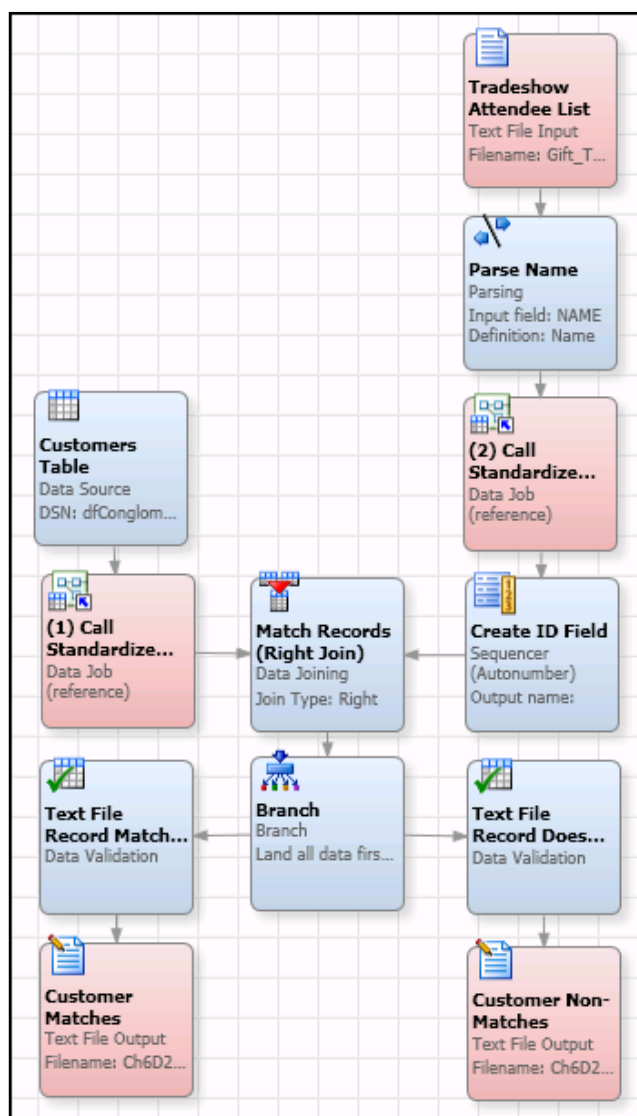


Reviewing a Data Job That Uses a Data Job Reference

This demonstration illustrates the steps that are necessary to review an existing data job that contains a Data Job (reference) node. The data job that is referenced is also examined.

1. If necessary, access Data Management Studio.
 - a. Select **Start** ⇒ **All Programs** ⇒ **DataFlux** ⇒ **Data Management Studio 2.7**.
 - b. Click **Cancel** to close the Log On window.
2. Open an existing job.
 - a. If necessary, click the **Home** tab.
 - b. If necessary, click the **Folders** riser bar.
 - c. Expand **Basics Solutions**.
 - d. Click **batch_jobs**.
 - e. Double-click the data job named **Ch9D2_FindMatches_UsingRefJob**.

The data job flow should resemble the flow to the right.



Note: The job flow diagram contains a sticky-note object that is not displayed in the picture.

3. Review the properties for the Data Source node.
 - a. Right-click the **Data Source** node and select **Properties**.
 - b. Verify that the **Input table** field displays the **Customers** table from **dfConglomerate Gifts**.
 - c. Verify that all fields from the **Customers** table are selected.
 - d. Click **Cancel** to close the Data Source Properties window.
4. Review the properties for the Text File Input node.
 - a. Right-click the **Text File Input** node and select **Properties**.
 - b. Review the input file specifications.
 - c. Verify that eight fields are specified in the Fields area.

Text File Input Properties

Name:

Input file:

Text qualifier: Number of rows to skip:

Field delimiter: Number of rows to read:

Encoding: Preserve whitespace in field values

Fields

| Field Name | Field Type | Field Length |
|------------|------------|--------------|
| ORG | STRING | 50 |
| NAME | STRING | 50 |
| ADDR | STRING | 50 |
| CITY | STRING | 25 |
| STATE | STRING | 25 |
| ZIP | STRING | 5 |
| EMAIL | STRING | 50 |
| PHONE | STRING | 20 |

- d. Click **Cancel** to close the Text File Input Properties window

5. Review the properties for the Parsing node.
 - a. Right-click the **Parsing** node and select **Properties**.
 - b. Verify that **English (United States)** is selected as the locale.
 - c. Verify that **NAME** is selected in the **Field to parse** field.
 - d. Verify that **Name** is selected as the definition.
 - e. Verify that three tokens are produced from parsing.

Parsing Properties

Name:

Locale: Field to parse:

Definition: Result code field:

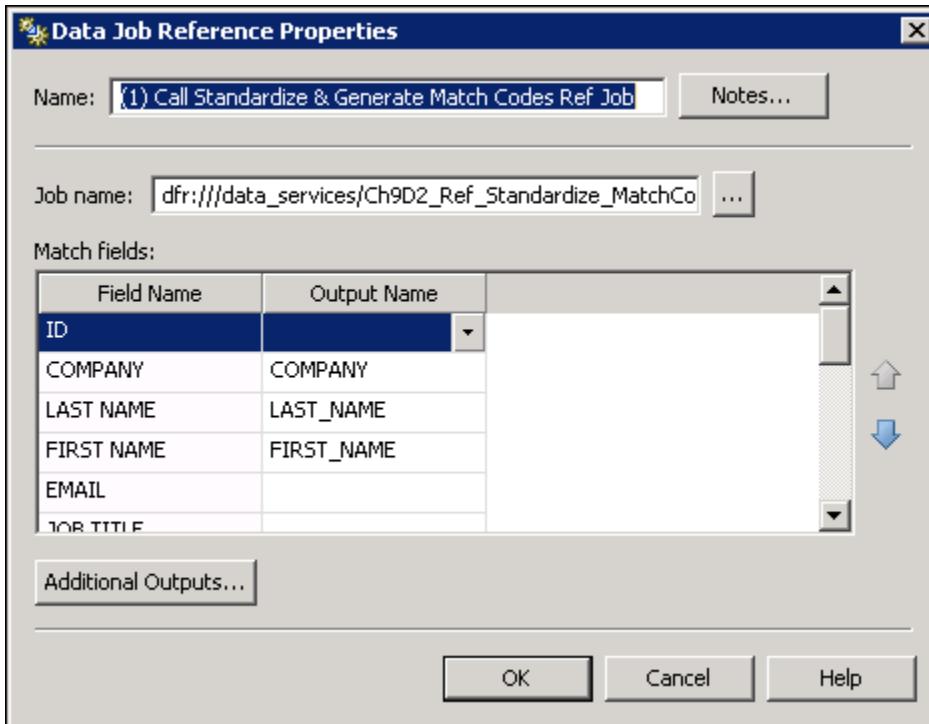
Tokens

| Available: | Selected: | | | | | | | | |
|-----------------------|--|------------|-------------|------------|------------|-------------|-------------|-------------|-------------|
| Prefix | | | | | | | | | |
| Given Name | <table border="1"> <thead> <tr> <th>Token Name</th> <th>Output Name</th> </tr> </thead> <tbody> <tr> <td>Given Name</td> <td>Given Name</td> </tr> <tr> <td>Middle Name</td> <td>Middle Name</td> </tr> <tr> <td>Family Name</td> <td>Family Name</td> </tr> </tbody> </table> | Token Name | Output Name | Given Name | Given Name | Middle Name | Middle Name | Family Name | Family Name |
| Token Name | Output Name | | | | | | | | |
| Given Name | Given Name | | | | | | | | |
| Middle Name | Middle Name | | | | | | | | |
| Family Name | Family Name | | | | | | | | |
| Middle Name | | | | | | | | | |
| Family Name | | | | | | | | | |
| Suffix | | | | | | | | | |
| Title/Additional Info | | | | | | | | | |

Preserve null values

- f. Verify that **Preserve null values** is selected.
- g. Click **Cancel** to close the Parsing Properties window.

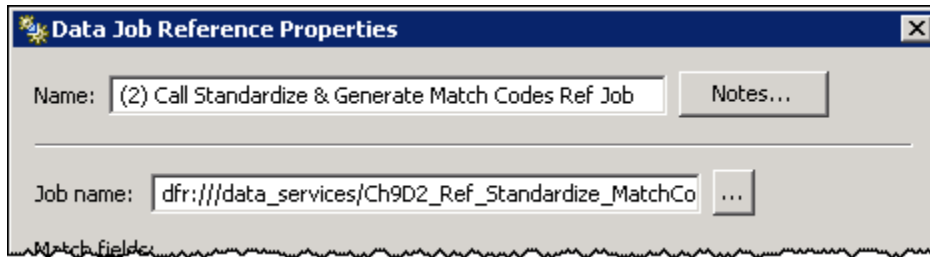
6. Review the properties for the Data Job (reference) node that follows the Data Source node.
 - a. Right-click the **Data Job (reference)** node (labeled **(1) Call Standardize & Generate Match Codes Ref Job**) and select **Properties**.
 - b. Verify that the **Job name** field has a value of **dfr:///data_services/Ch9D2_Ref_Standardize_MatchCodes(DataJob)**.



- c. Verify that the following fields are mapped in the Match fields area:

| Field Name | Output Name |
|-----------------|-------------|
| ID | |
| COMPANY | COMPANY |
| LAST NAME | LAST_NAME |
| FIRST NAME | FIRST_NAME |
| EMAIL | |
| JOB TITLE | |
| BUSINESS PHONE | PHONE |
| HOME PHONE | |
| MOBILE PHONE | |
| FAX NUMBER | |
| ADDRESS | ADDRESS |
| CITY | CITY |
| STATE/PROVINCE | STATE |
| ZIP/POSTAL CODE | ZIP |
| COUNTRY/REGION | |
| NOTES | |

- d. Click **Cancel** to close the Data Job Reference Properties window.
7. Review the properties for the Data Job (reference) node that follows the Parsing node.
 - a. Right-click the **Data Job (reference)** node (labeled **(2) Call Standardize & Generate Match Codes Ref Job**) and select **Properties**.
 - b. Verify that the **Job name** field has a value of **dfr:///data_services/Ch9D2_Ref_Standardize_MatchCodes(DataJob)**.



It is important to note that the data job referenced in this node is the same data job that is referenced in the previously investigated Data Job Reference node.

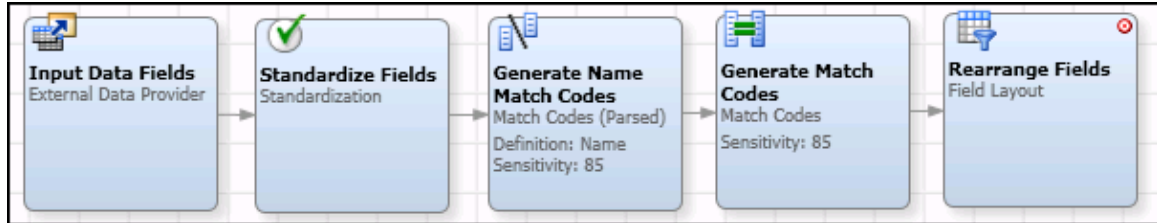
- c. Verify that the following fields are mapped in the Match fields area:

| Match fields: | |
|---------------|-------------|
| Field Name | Output Name |
| ORG | COMPANY |
| NAME | |
| ADDR | ADDRESS |
| CITY | CITY |
| STATE | STATE |
| ZIP | ZIP |
| EMAIL | |
| PHONE | PHONE |
| Given Name | FIRST_NAME |
| Middle Name | MIDDLE_NAME |
| Family Name | LAST_NAME |

- d. Click **Cancel** to close the Data Job Reference window.

8. Review the data job that is referenced in each of the Data Job (reference) nodes.
 - a. Right-click the **Data Job (reference)** node (labeled **(1) Call Standardize & Generate Match Codes Ref Job**) and select **Open**.

The data job reference diagram should resemble the following:



Note: The job flow diagram could be vertical. In the picture, the job diagram is horizontal for display purposes. In addition, the job flow diagram might have a sticky-note object that is not displayed.

Note: This data job can be uploaded to the Data Management Server and used as a real-time data service.

- b. Review the properties for the External Data Provider node.
 - 1) Right-click the **External Data Provider** node and select **Properties**.
 - 2) Verify that nine fields are specified in the Fields area.

External Data Provider Properties

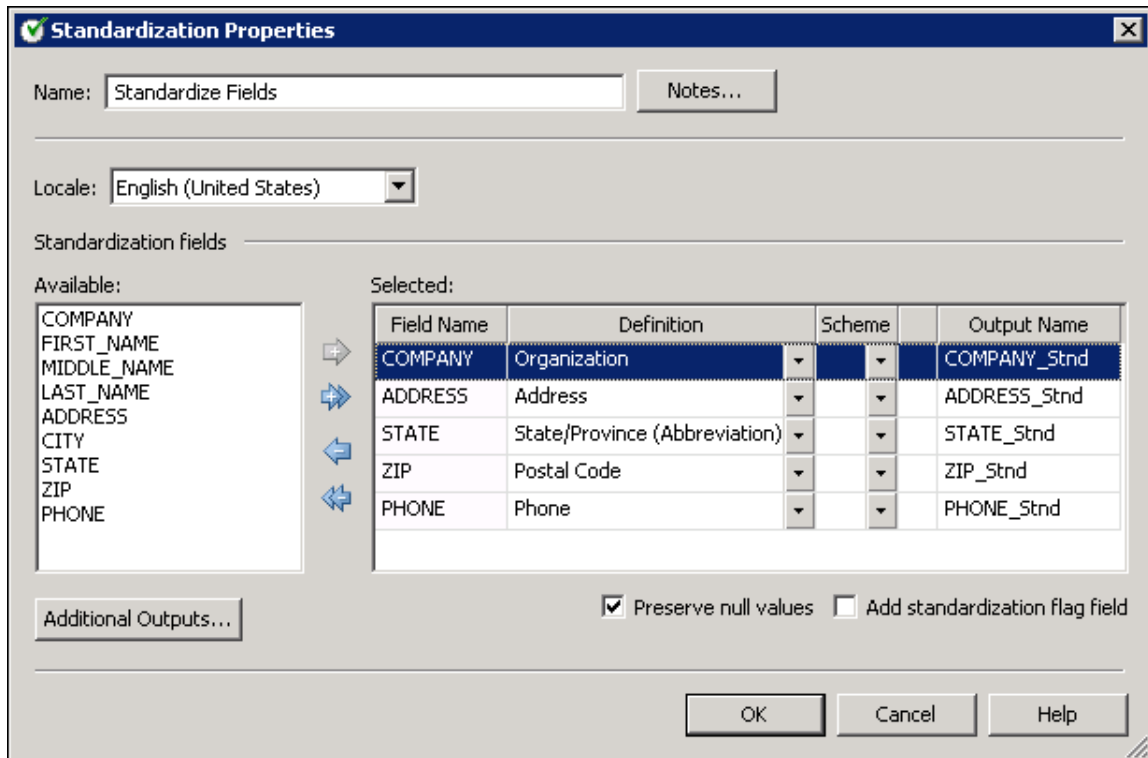
Name:

Fields:

| Field Name | Field Type | Field Length |
|-------------|------------|--------------|
| COMPANY | STRING | 50 |
| FIRST_NAME | STRING | 50 |
| MIDDLE_NAME | STRING | 50 |
| LAST_NAME | STRING | 50 |
| ADDRESS | STRING | 50 |
| CITY | STRING | 25 |
| STATE | STRING | 25 |
| ZIP | STRING | 10 |
| PHONE | STRING | 20 |

- 3) Click **Cancel** to close the External Data Provider Properties window.

- c. Review the properties for the Standardization node.
- 1) Right-click the **Standardization** node and select **Properties**.
 - 2) Verify that **English (United States)** is selected as the locale.
 - 3) Verify that five fields are standardized using an appropriate definition in the Standardization fields area.
 - 4) Verify that **Preserve null values** is selected.



- 5) Click **Cancel** to close the Standardization Properties window.

- d. Review the properties for the Match Codes (Parsed) node.
 - 1) Right-click the **Match Codes (Parsed)** node and select **Properties**.
 - 2) Verify that **NAME_MatchCode** is specified in the **Output field** field.
 - 3) Verify that **English (United States)** is selected as the locale.
 - 4) Verify that **85** is selected as the sensitivity value.
 - 5) Verify that **Name** is selected as the definition.
 - 6) Verify that three name tokens are used to generate a match code.

Match Codes (Parsed) Properties

Name:

Output field:

Allow generation of multiple matchcodes per definition

Locale:

Sensitivity:

Definition:

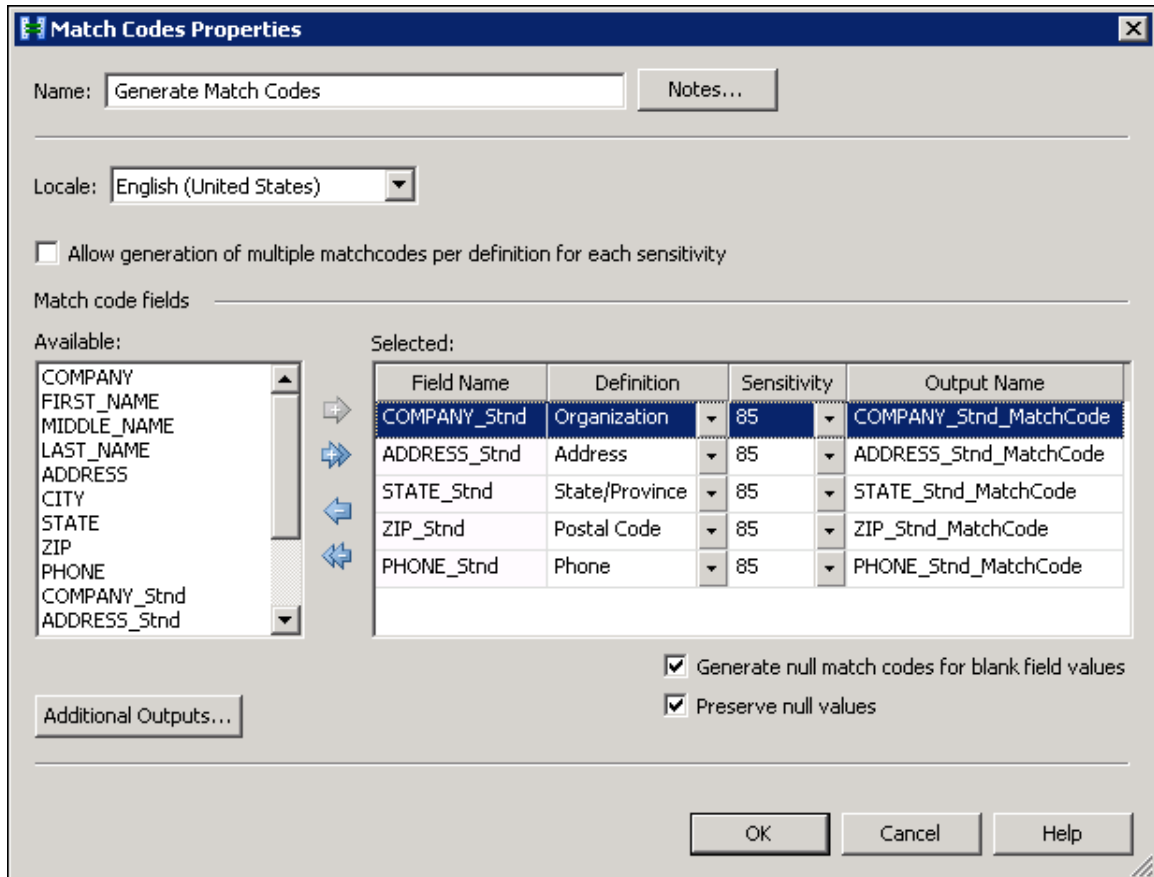
| Token Name | Field Name |
|-----------------------|-------------|
| Prefix | |
| Given Name | FIRST_NAME |
| Middle Name | MIDDLE_NAME |
| Family Name | LAST_NAME |
| Suffix | |
| Title/Additional Info | |

Generate null match codes for blank field values

Preserve null values

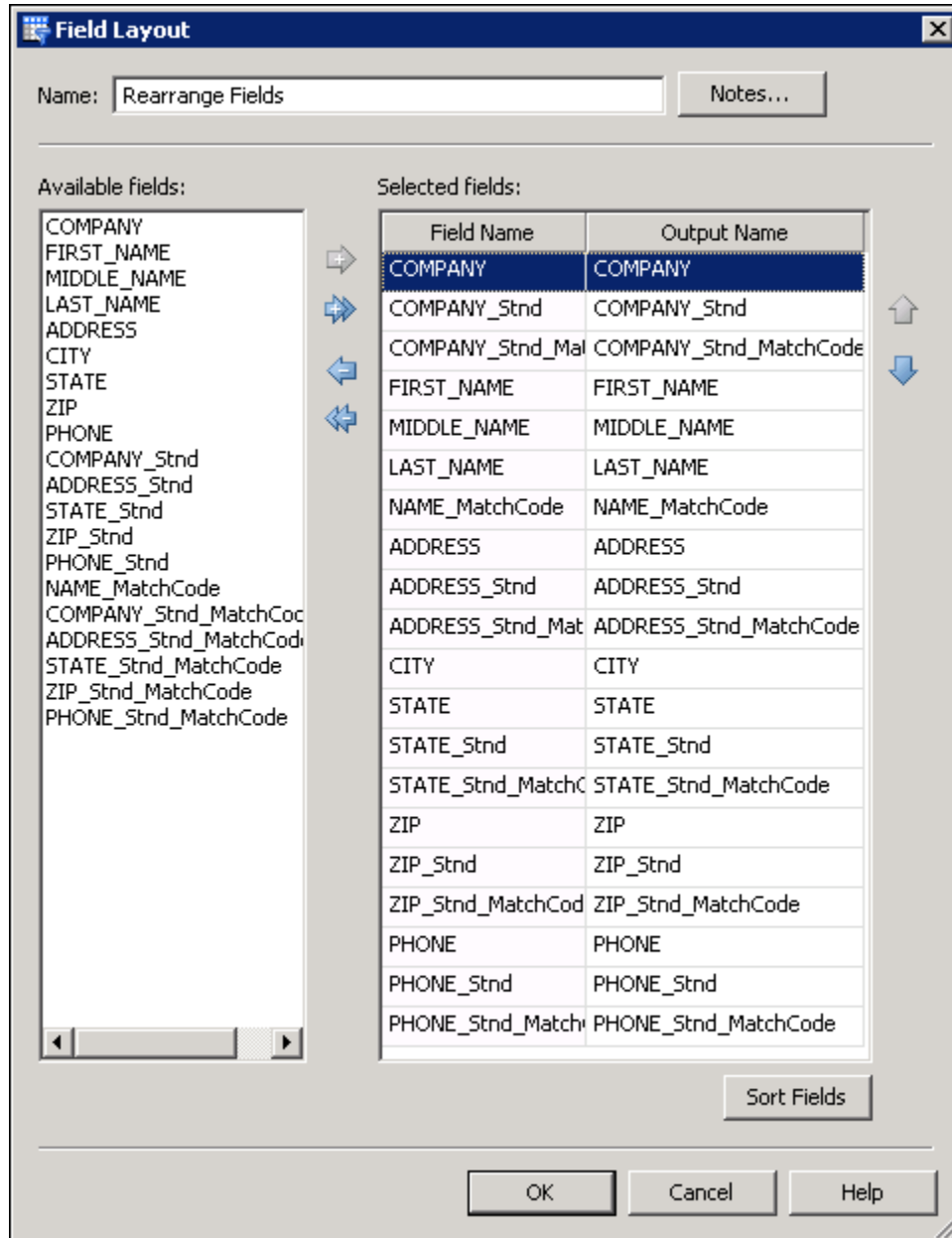
- 7) Verify that **Generate null match codes for blank field values** is selected.
- 8) Verify that **Preserve null values** is selected.
- 9) Click **Cancel** to close the Match Codes (Parsed) Properties window.
- e. Review the properties for the Match Codes node.
 - 1) Right-click the **Match Codes** node and select **Properties**.
 - 2) Verify that **English (United States)** is selected as the locale.
 - 3) Verify that match codes are generated for five fields using appropriate definitions and sensitivities in the Match code fields area.

- 4) Verify that **Generate null match codes for blank field values** is selected.
- 5) Verify that **Preserve null values** is selected.



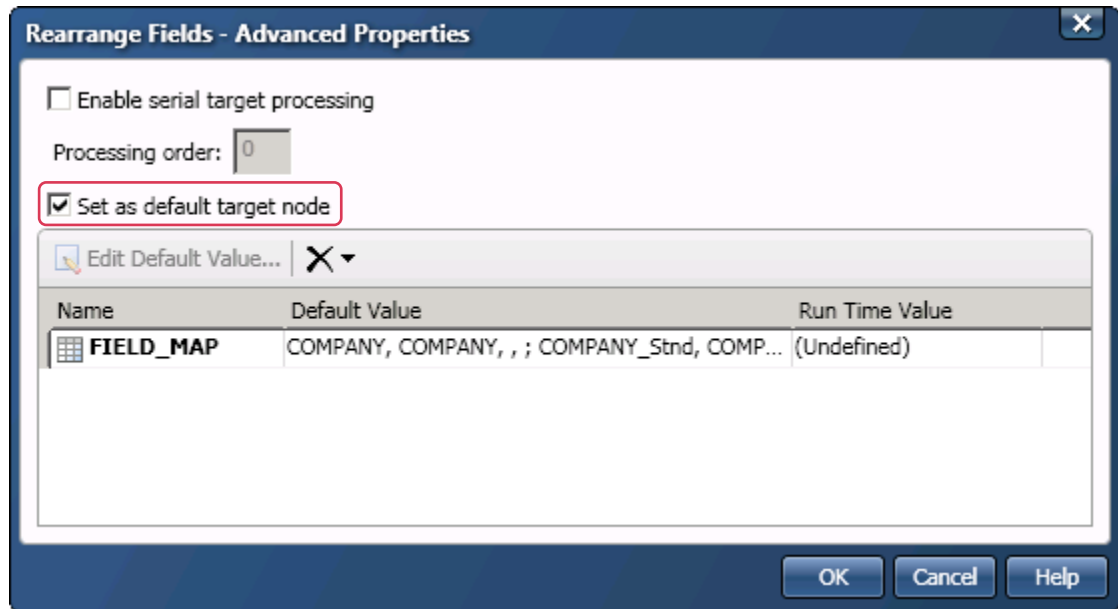
- 6) Click **Cancel** to close the Match Codes Properties window.

- f. Review the properties for the Field Layout node.
- 1) Right-click the **Field Layout** node and select **Properties**.
 - 2) Verify that each standardized field follows the original field, and each match code field immediately follows the standardized field.

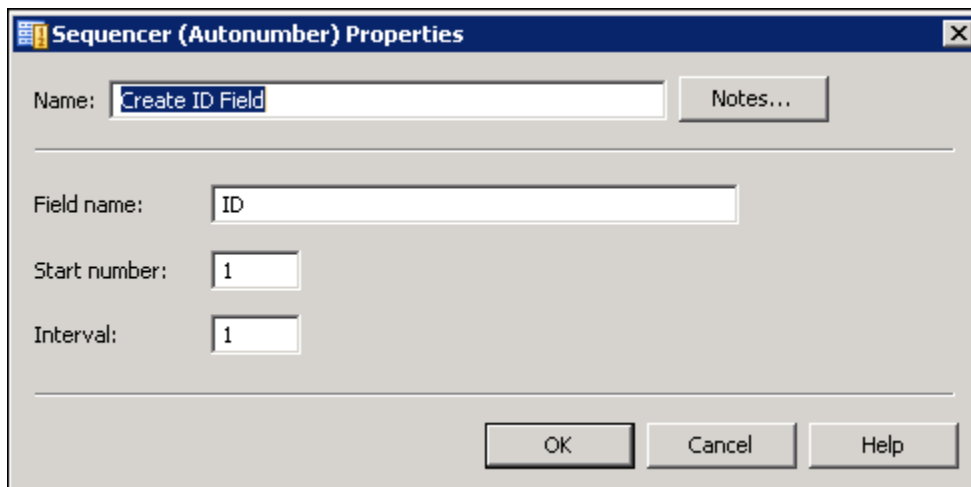


- 3) Click **Cancel** to close the Field Layout window.

- g. Review advanced properties for the Field Layout node.
 - 1) Right-click the **Field Layout** node and select **Advanced Properties**.
 - 2) Verify that **Set as default target node** is selected.



- 3) Click **Cancel** to close the Advanced Properties window.
- h. Select **File** ⇒ **Close** to close the data job reference.
9. Review the properties for the Sequencer (Autonumber) node.
 - a. Right-click the **Sequencer (Autonumber)** node and select **Properties**.
 - b. Verify that the **Field name** field is set to **ID**.
 - c. Verify that the **Start number** field is set to **1**.
 - d. Verify that the **Interval** field is set to **1**.



- e. Click **Cancel** to close the Sequencer (Autonumber) Properties window.

10. Review the properties for the Data Joining node.

- a. Right-click the **Data Joining** node and select **Properties**.
- b. Verify that **Right** is selected as the Join type.
- c. Verify that **Right table** is selected as the Memory load option.

- d. Verify that three join conditions are specified in the Expressions area.

Expressions:

```

NAME_MatchCode = NAME_MatchCode
COMPANY_Stnd_MatchCode = COMPANY_Stnd_MatchCode
ADDRESS_Stnd_MatchCode = ADDRESS_Stnd_MatchCode
STATE_Stnd_MatchCode = STATE_Stnd_MatchCode
OR
NAME_MatchCode = NAME_MatchCode
COMPANY_Stnd_MatchCode = COMPANY_Stnd_MatchCode
ADDRESS_Stnd_MatchCode = ADDRESS_Stnd_MatchCode
ZIP_Stnd_MatchCode = ZIP_Stnd_MatchCode
OR
NAME_MatchCode = NAME_MatchCode
PHONE_Stnd = PHONE_Stnd
COMPANY_Stnd_MatchCode = COMPANY_Stnd_MatchCode

```

Condition 1 – read each line and say AND in between the lines.

Condition 2 – read each line and say AND in between the lines.

Condition 3 – read each line and say AND in between the lines.

- e. In the Output fields area, verify that the fields from the left table (**Customers**) have output names that end with **_1**.
- f. In the Output fields area, verify that the fields from the right table (the text file) have output names that end with **_2**.

| Field Name | Output Name |
|-----------------------|------------------------|
| [Left].PHONE | PHONE_1 |
| [Left].PHONE_Stnd | PHONE_Stnd_1 |
| [Left].PHONE_Stnd_Mat | PHONE_Stnd_MatchCode_1 |
| [Right].ID | ID_2 |
| [Right].EMAIL | EMAIL_2 |
| [Right].COMPANY | COMPANY_2 |
| [Right].COMPANY_Stnd | COMPANY_Stnd_2 |

- g. Click **Cancel** to close the Data Joining Properties window.

Typically, the output from the Data Joining node would be limited to far fewer fields, where the fields selected would be determined based on intended use of the output or result set from this node. In this example we have output all fields from both inputs for illustration purposes.

Recall that the input Customers table has an ID field. Assume that the ID field is a valid primary key field (that is, the ID field has unique and non-null values). The above steps specify that the ID field from the Customers table will be output from the Data Joining node as the field named ID_1.

Consider a record from the input text file matching a record from the input Customers table. For all the fields in the Customers table, we will be guaranteed a value will exist for the ID field (since it is a primary key field). Thus, if a match occurs, then the ID_1 field output from the Data Joining node will be non-null.

Consider a record from the input text file *not* matching a record from the input Customers table. Since no match occurred then all the output fields with names ending in _1 will be null. And, in particular, ID_1 will be null.

11. Review the properties for the Data Validation node labeled **Text File Record Matches DB Record**.
 - a. Right-click the **Data Validation** node and select **Properties**.
 - b. Verify that **ID_1 is not null** is in the Expression pane.

The screenshot shows the 'Data Validation Properties' dialog box. The 'Name' field is 'Text File Record Matches DB Record'. The 'Expression' pane contains the text 'ID_1 is not null', which is highlighted with a red arrow. The 'Audit action' is set to 'Remove row from output'. The 'Field' and 'Operation' dropdowns are empty. The 'Single' radio button is selected. The 'Case insensitive' and 'Treat '*' and '?' as wildcards' checkboxes are unchecked. The 'Add Condition >' button is visible. The 'Audit action' section has 'Remove row from output' selected, with 'Flag name' and 'Flag value' fields below it. The 'OK', 'Cancel', and 'Help' buttons are at the bottom.

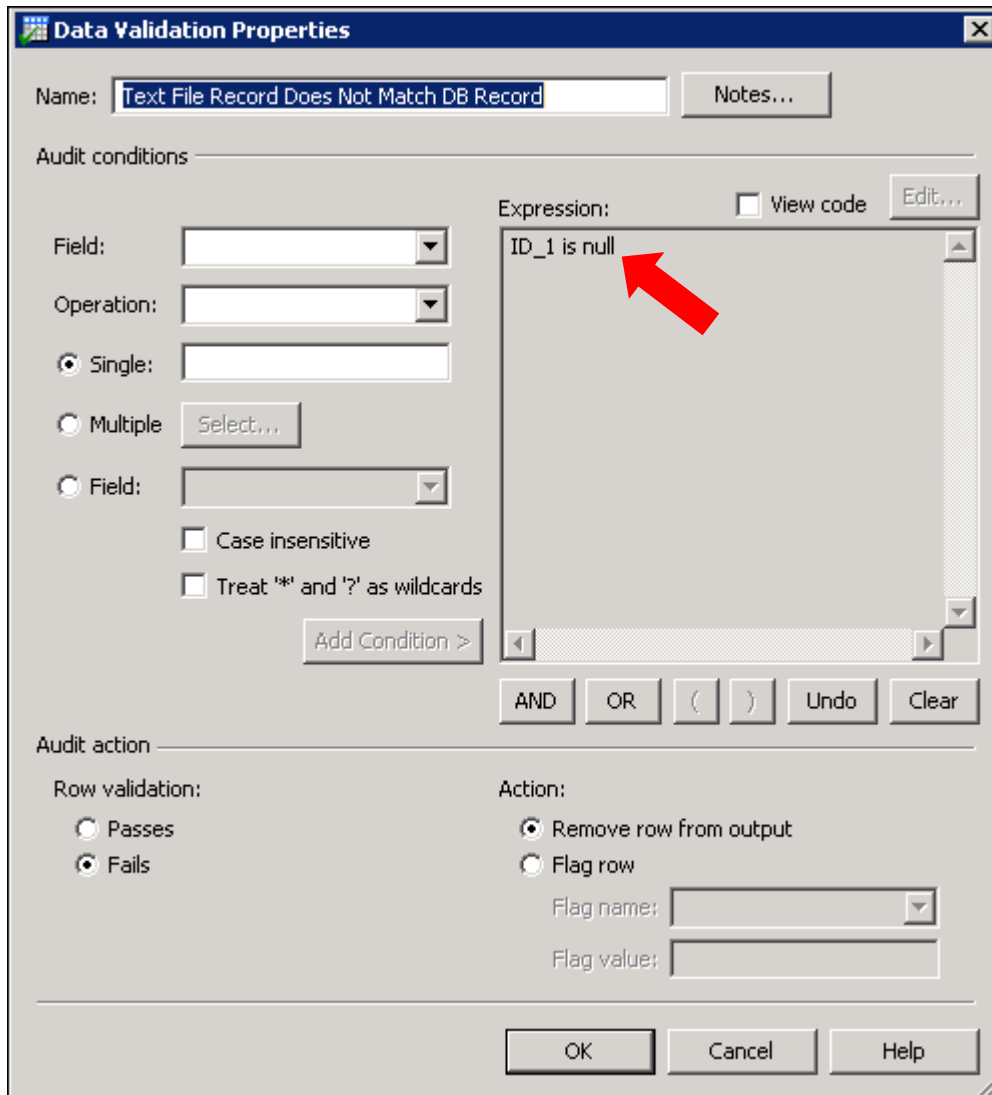
Note: Because this is a right join, if a match occurs (that is, if at least one of the four conditions specified in the Data Joining node is met), then the **ID_1** field has a value.

c. Click **Cancel** to close the Data Validation Properties window.

12. Review the properties for the Data Validation node labeled **Text File Record Does Not Match DB Record**.

a. Right-click this **Data Validation** node and select **Properties**.

b. Verify that **ID_1 is null** is in the Expression pane.



Note: Because this is a right join, if a match does not occur (that is, if at least one of the four conditions specified in the Data Joining node is not met), then the **ID_1** field does not have a value.

c. Click **Cancel** to close the Data Validation Properties window.

13. Review the properties for the Text File Output node labeled **Matches**.

- a. Right-click the **Text File Output** node and select **Properties**.
- b. Review the output file specifications.

Text File Output Properties

Name:

Output file:

Text qualifier: Encoding:

Field delimiter: Include header row

End of line: Display file after job runs

Output fields

Available:

- ID_1
- EMAIL_1
- JOB TITLE_1
- COMPANY_1
- COMPANY_Stnd_1
- COMPANY_Stnd_MatchCode_1
- FIRST_NAME_1
- MIDDLE_NAME_1
- LAST_NAME_1
- NAME_MatchCode_1
- ADDRESS_1
- ADDRESS_Stnd_1

Selected:

| Field Name | Output Name |
|------------------------|------------------------|
| PHONE_1 | PHONE_1 |
| PHONE_Stnd_1 | PHONE_Stnd_1 |
| PHONE_Stnd_MatchCode_1 | PHONE_Stnd_MatchCode_1 |
| ID_2 | ID_2 |
| EMAIL_2 | EMAIL_2 |
| COMPANY_2 | COMPANY_2 |
| COMPANY_Stnd_2 | COMPANY_Stnd_2 |

- c. Verify that all fields are selected for output.
- d. Click **Cancel** to close the Text File Output Properties window.

14. Review the properties for the Text File Output node labeled **Non-Matches**.
 - a. Right-click the **Text File Output** node and select **Properties**.
 - b. Review the output file specifications.

Text File Output Properties

Name:

Output file:

Text qualifier: Encoding:

Field delimiter: Include header row

End of line: Display file after job runs

Output fields

Available:

- ID_1
- EMAIL_1
- JOB_TITLE_1
- COMPANY_1
- COMPANY_Std_1
- COMPANY_Std_MatchCode_1
- FIRST_NAME_1
- MIDDLE_NAME_1
- LAST_NAME_1
- NAME_MatchCode_1
- ADDRESS_1
- ADDRESS_Std_1

Selected:

| Field Name | Output Name |
|-------------------------|-------------------------|
| ID_2 | ID_2 |
| EMAIL_2 | EMAIL_2 |
| COMPANY_2 | COMPANY_2 |
| COMPANY_Std_2 | COMPANY_Std_2 |
| COMPANY_Std_MatchCode_2 | COMPANY_Std_MatchCode_2 |
| FIRST_NAME_2 | FIRST_NAME_2 |
| MIDDLE_NAME_2 | MIDDLE_NAME_2 |

- c. Verify that only the fields with names ending in **_2** are selected for output.
 - d. Click **Cancel** to close the Text File Output Properties window.
15. If necessary, select **File** ⇒ **Save** to save the data job.
16. Run the job.
 - a. Verify that the **Data Flow** tab is selected.
 - b. Select **Actions** ⇒ **Run Data Job**.
 - c. Verify that the two text files open in Microsoft Excel.

MATCHES:

| | A | B | C | D | E | |
|----|------|-------------------|---------------------|----------------------|------------------------|-------------------------------------|
| 1 | ID_1 | EMAIL_1 | JOB TITLE_1 | COMPANY_1 | COMPANY_Std_1 | COMPANY_Std_Ma |
| 2 | 1 | | Marketing Rep | Transamerica Financi | Transamerica Financial | ~YEP4EBEYE3&GEP3V |
| 3 | 2 | Antonio.Ramos@da | Mktg Rep | DataFlux | DataFlux | 4&4\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$ |
| 4 | 3 | taxen@transameri | Purchasing Represe | Transamerica Occider | Transamerica Occidenta | ~YEP4EBEYE3&\$\$\$\$\$ |
| 5 | 4 | | Purchasing Mgr | Transamerica Financi | Transamerica Financial | ~YEP4EBEYE3&GEP3W |
| 6 | 5 | modonnell@transa | Marketing Manager | Transamerica Occider | Transamerica Occidenta | ~YEP4EBEYE3&\$\$\$\$\$ |
| 7 | 7 | | Marketing Mgr | Transamerica Financi | Transamerica Financial | ~YEP4EBEYE3&GEP3V |
| 8 | 8 | ejandersen@acr.co | Purchasing Rep | Applied Computer Re | Applied Computer Rese | &NWEF~3EBNE~EYVE |
| 9 | 9 | svenm@ads.com | Purchasing Manager | Applied Data Svcs | Applied Data Services | &NWEF~\$\$\$\$\$\$\$\$\$\$\$\$ |
| 10 | 10 | rwacker@ads.com | Purchasing Mgr | Applied Data Svcs | Applied Data Services | &NWEF~\$\$\$\$\$\$\$\$\$\$\$\$ |
| 11 | 19 | | Accounting Assistan | April and George | April & George | &NYEWF_@Y\$\$\$\$\$\$\$ |
| 12 | 19 | | Accounting Assistan | April and George | April & George | &NYEWF_@Y\$\$\$\$\$\$\$ |

NON-MATCHES:

| | A | B | C | D | E |
|----|------|---------------------------|----------------|----------------|--------------------------------------|
| 1 | ID_2 | EMAIL_2 | COMPANY_2 | COMPANY_Std_2 | COMPANY_Std_MatchCode_2 |
| 2 | 12 | jortiz@abc.com | ABC Company | ABC Company | &MJ\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$ |
| 3 | 23 | | Microsoft | Microsoft | B£3Y£4EG~\$\$\$\$\$\$\$\$\$\$\$\$ |
| 4 | 5 | | Microsoft | Microsoft | B£3Y£4EG~\$\$\$\$\$\$\$\$\$\$\$\$ |
| 5 | 14 | | ? | ? | |
| 6 | 19 | jc123@msn.com | ? | ? | |
| 7 | 30 | chris.carter@bullmktg.com | Bull Marketing | Bull Marketing | M#WWB£Y3£~£PF\$\$\$\$\$\$\$\$ |
| 8 | 31 | andrew@dfconglomerate.c | dfConglomerate | Dfconglomerate | 8G3£PFWE£BEYE~_\$\$\$\$\$\$\$\$ |
| 9 | 27 | | Dell Corp | Dell Corp | 8_WW\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$ |
| 10 | 22 | | | | |
| 11 | 20 | | Rite Stuff | Rite Stuff | Y7~_4~#G\$\$\$\$\$\$\$\$\$\$\$\$ |
| 12 | 18 | sbernheim@yahoo.com | | | |

d. Select **File** ⇒ **Close** to close both files. Do not save any changes.

17. View the detailed log.

a. Click the **Log** tab.

| Row | Node Name | Node ID | Node Type | Status |
|-----|---|---------|------------------------|--|
| 0 | Ch9D2_FindMatches_UsingRefJob | | Data Job | Completed successfully |
| 1 | Customers Table | 2 | Data Source | DSN: DSN=dfConglomerate Gifts;DFXT SQL: SELECT "ID","COMPANY","LAST N 63 rows read |
| 2 | Tradeshow Attendee List | 3 | Text File Input | Input file: D:\Workshop\dqdmp1\data 31 rows read |
| 3 | Parse Name | 8 | Parsing | 31 row(s) processed |
| 4 | Create ID Field | 10 | Sequencer (Autonumber) | Completed successfully |
| 5 | (1) Call Standardize & Generate Match Codes | 11 | Data Job (reference) | 63 row(s) processed |
| 6 | Match Records (Right Join) | 13 | Data Joining | 63 rows read from left 31 rows read from right 33 rows joined |
| 7 | (2) Call Standardize & Generate Match Codes | 15 | Data Job (reference) | 31 row(s) processed |
| 8 | Branch | 16 | Branch | Completed successfully |
| 9 | Text File Record Matches DB Record | 17 | Data Validation | Completed successfully |
| 10 | Text File Record Does Not Match DB Record | 18 | Data Validation | Completed successfully |
| 11 | Customer Matches | 19 | Text File Output | Wrote 19 rows to text file D:\Workshop |
| 12 | Customer Non-Matches | 20 | Text File Output | Wrote 14 rows to text file D:\Workshop |

18. Answer the following questions:

Question: How many records were written to the Matches text file?

Answer: **19 records**

Question: How many records were written to the Non-Matches text file?

Answer: **14 records**

19. Close the data job.

a. Click the **Data Flow** tab.

b. Select **File** ⇒ **Close**.

End of Demonstration

Solutions to Question

x.01 Multiple Choice Poll – Correct Answer

What node is used to convert a data job into a real-time data service that can be executed on the Data Management Server?

- a. Data Source node
- b. Job Specific Data node
- c. External Data Provider node
- d. Work Table Reader node