# Module 1: Data Preparation Using Tableau Prep

## Demo Document IV

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# Demo IV

**Unions and Joins in Tableau Prep**

Unions and Joins are the two ways through which we can combine data in Tableau Prep. Demonstrate the use of Unions and Joins in Tableau Prep using Employee data.

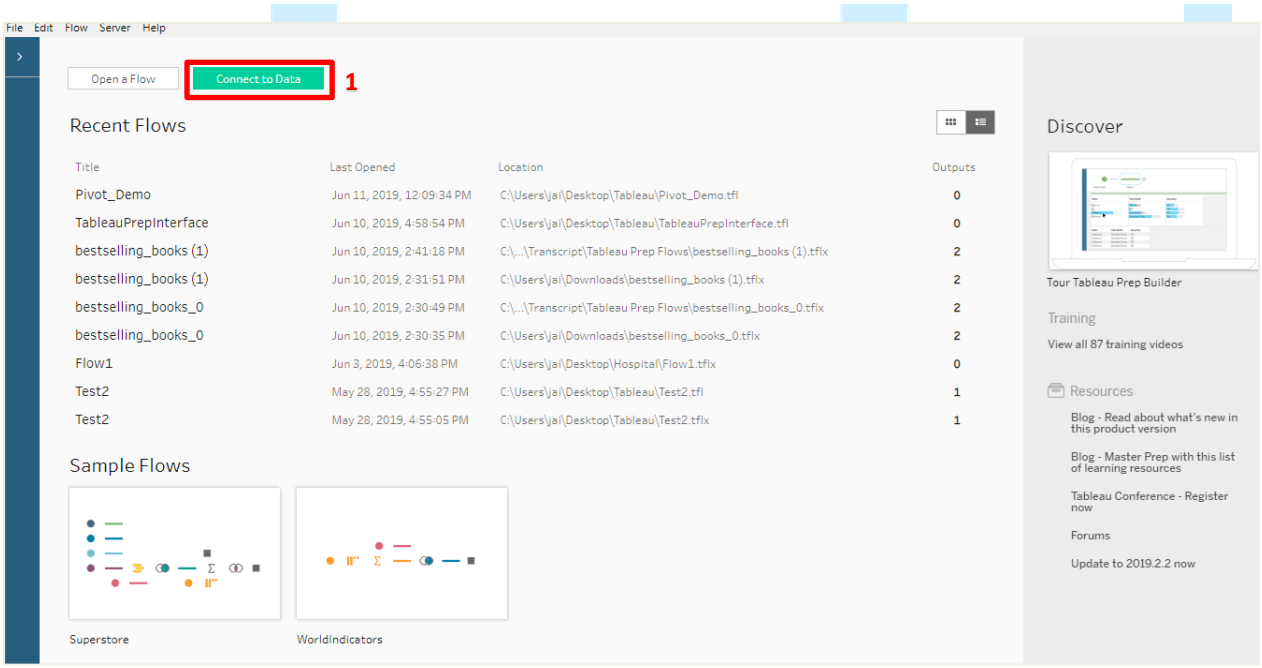
# Demo IV – Solution

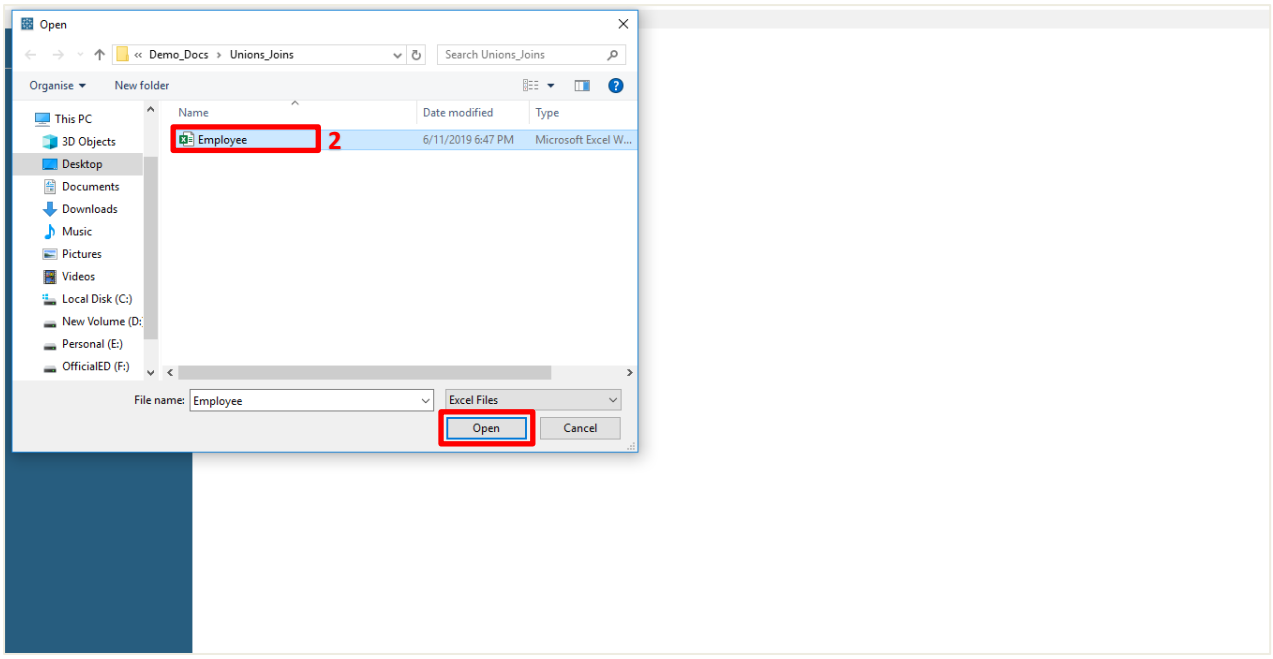
**Step 1:** **1** → Connect to the dataset

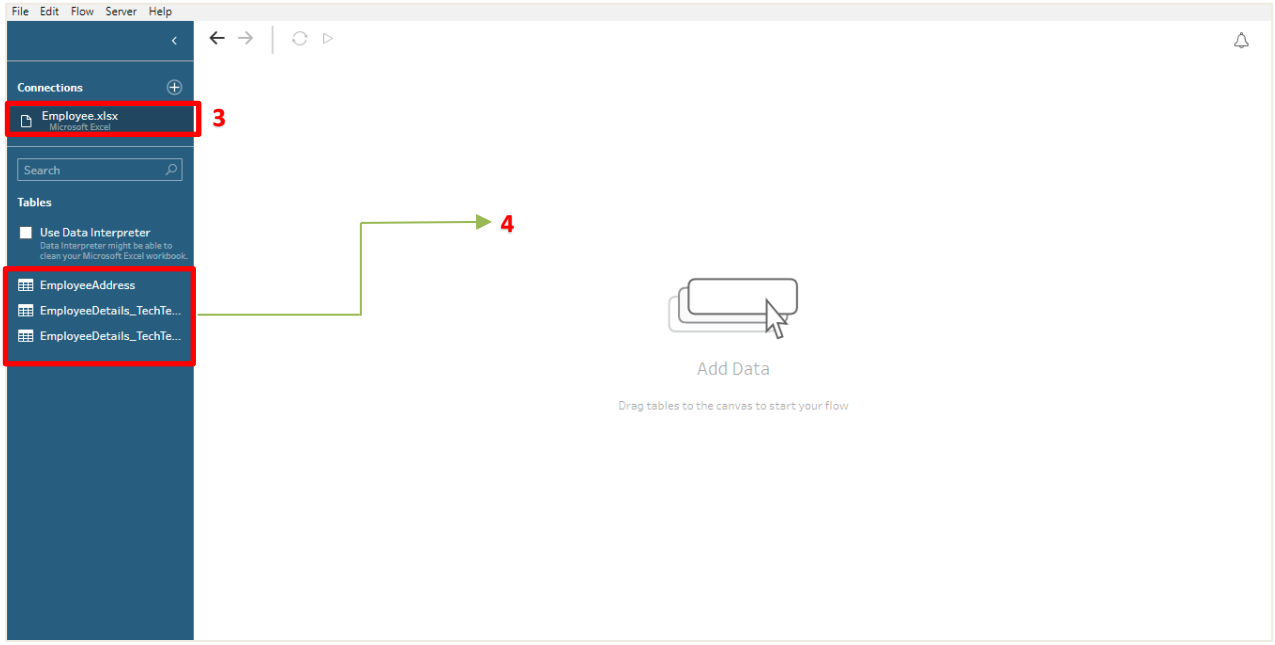
**2** → Select "Employee" dataset

**3** → Connection Established with file "Employee.xlsx"

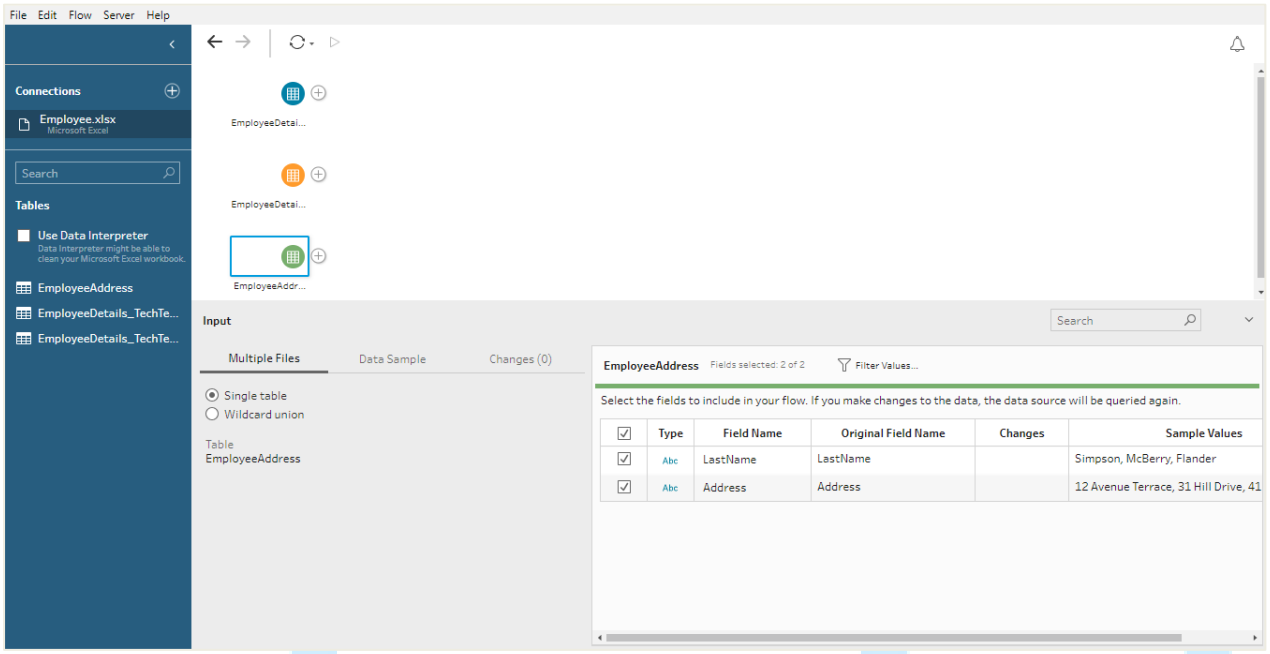
**4** → Drag and drop the selected tables here

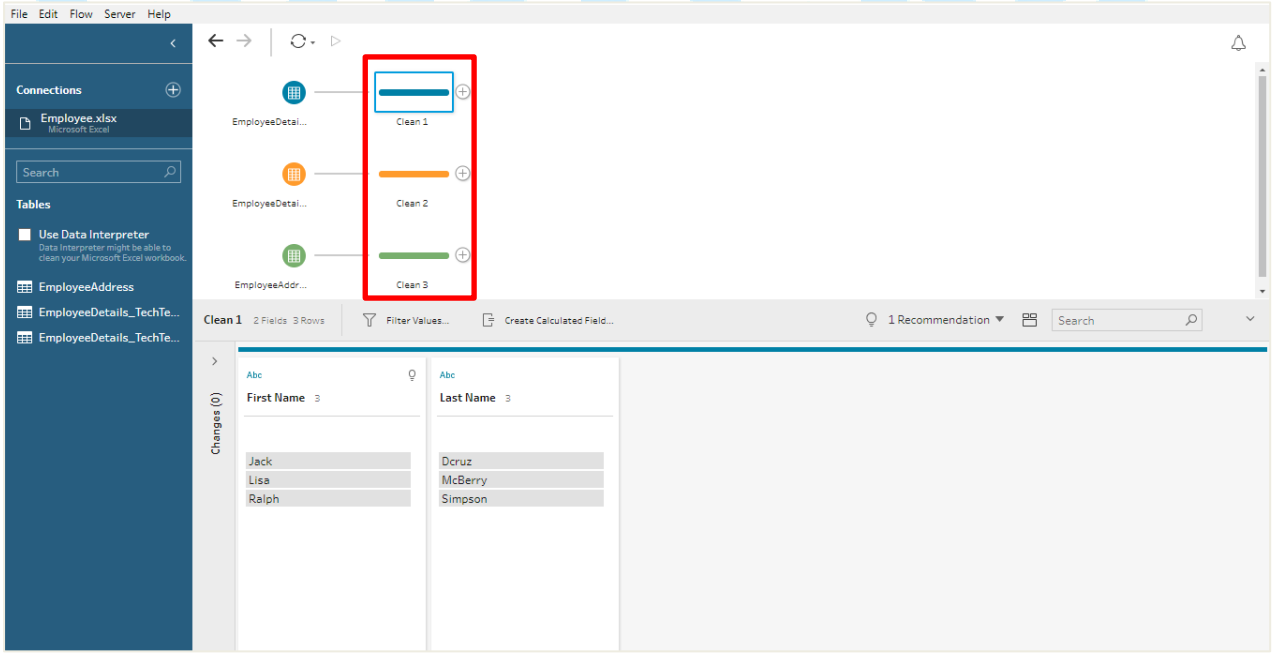



Open
Demo_Docs › Unions_Joins
Search Unions_Joins
Organise
New folder
This PC
3D Objects
Desktop
Documents
Downloads
Music
Pictures
Videos
Local Disk (C:)
New Volume (D:
Personal (E:)
OfficialED (F:)
Name
Date modified
Type
Employee
6/11/2019 6:47 PM
Microsoft Excel W...
2
File name: Employee
Excel Files
Open
Cancel


File Edit Flow Server Help
Connections
Employee.xlsx
Microsoft Excel
3
Search
Tables
Use Data Interpreter
Data Interpreter might be able to clean your Microsoft Excel workbook.
EmployeeAddress
EmployeeDetails_TechTe...
EmployeeDetails_TechTe...
4
Add Data
Drag tables to the canvas to start your flow

**Step 2:** Add a Cleaning Step for each of the tables.



**Step 3:** Tech Team 1 and Tech Team 2 employees have similar tables.

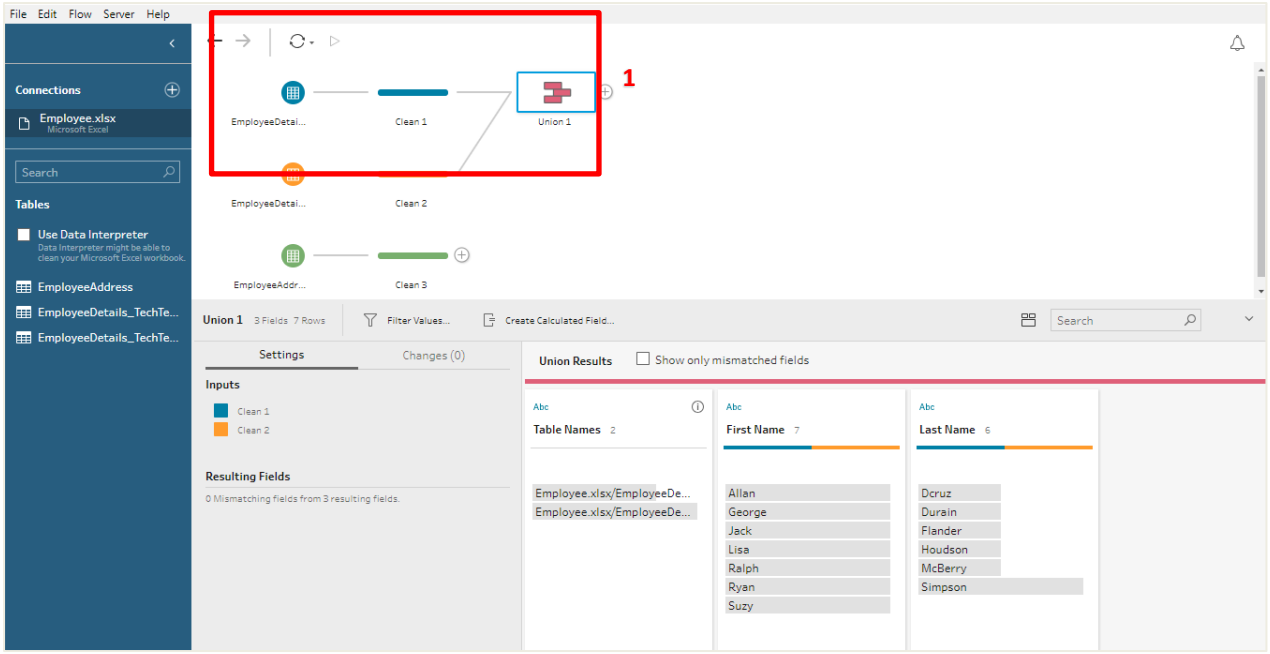
**1** → Drag and drop the tables to combine and select Union.

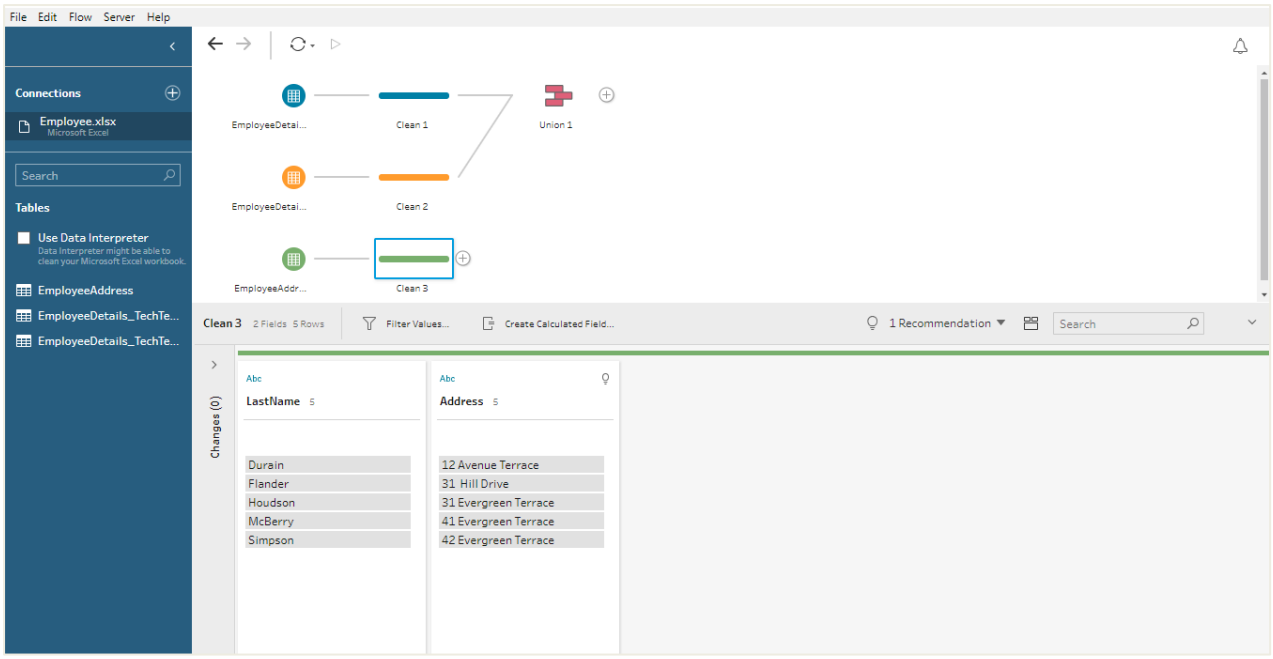
**2** → Drag and drop the Employee Address table to start a Join.

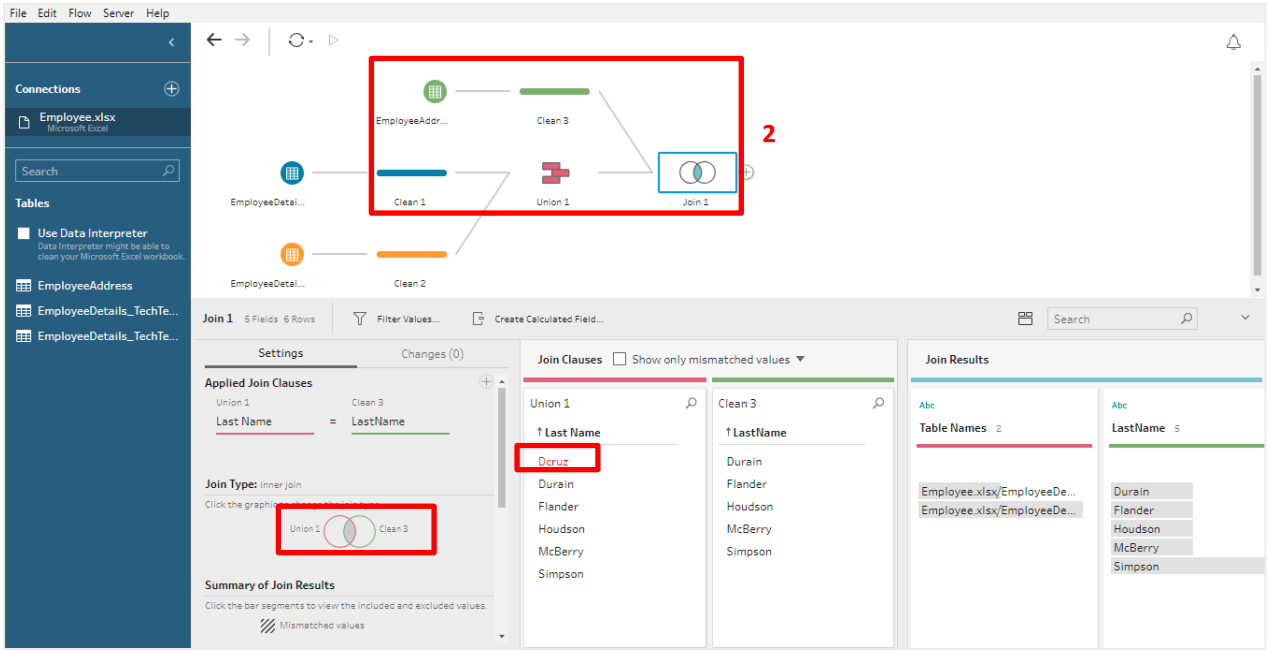
The system has correctly identified the last name to join, but Ralph Dcruz does not appear in the Employee Address data.

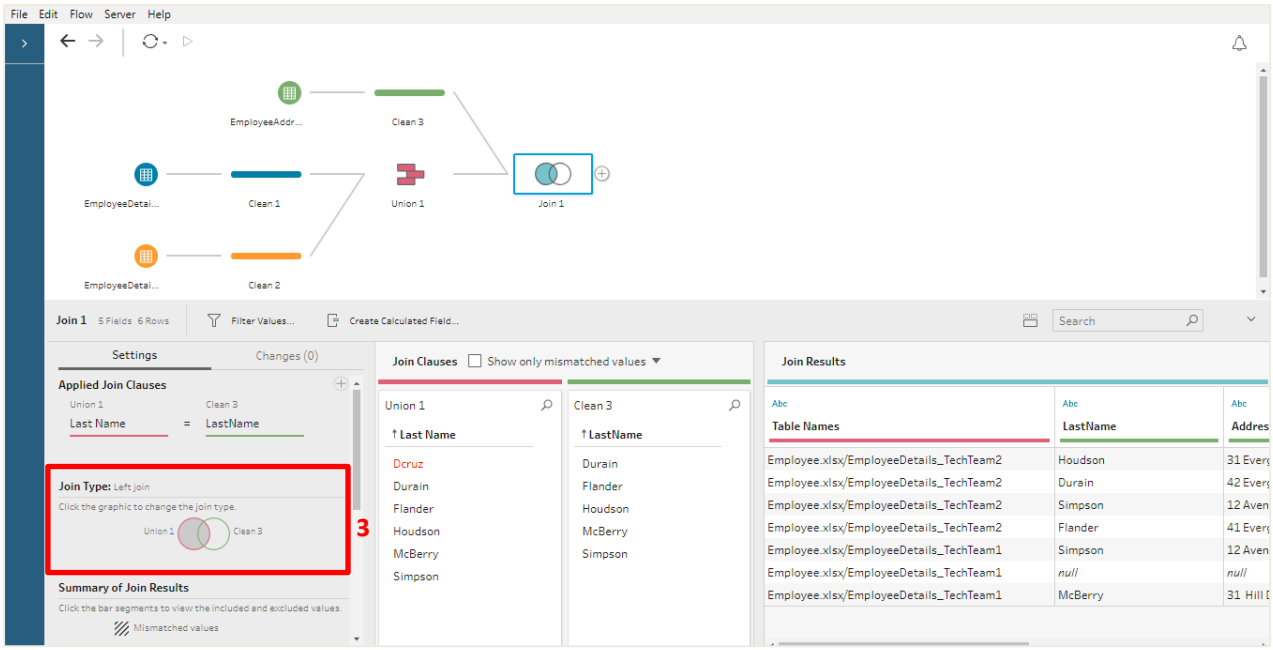
**3** → To include Ralph Dcruz in the output, switch from inner join to left outer join.

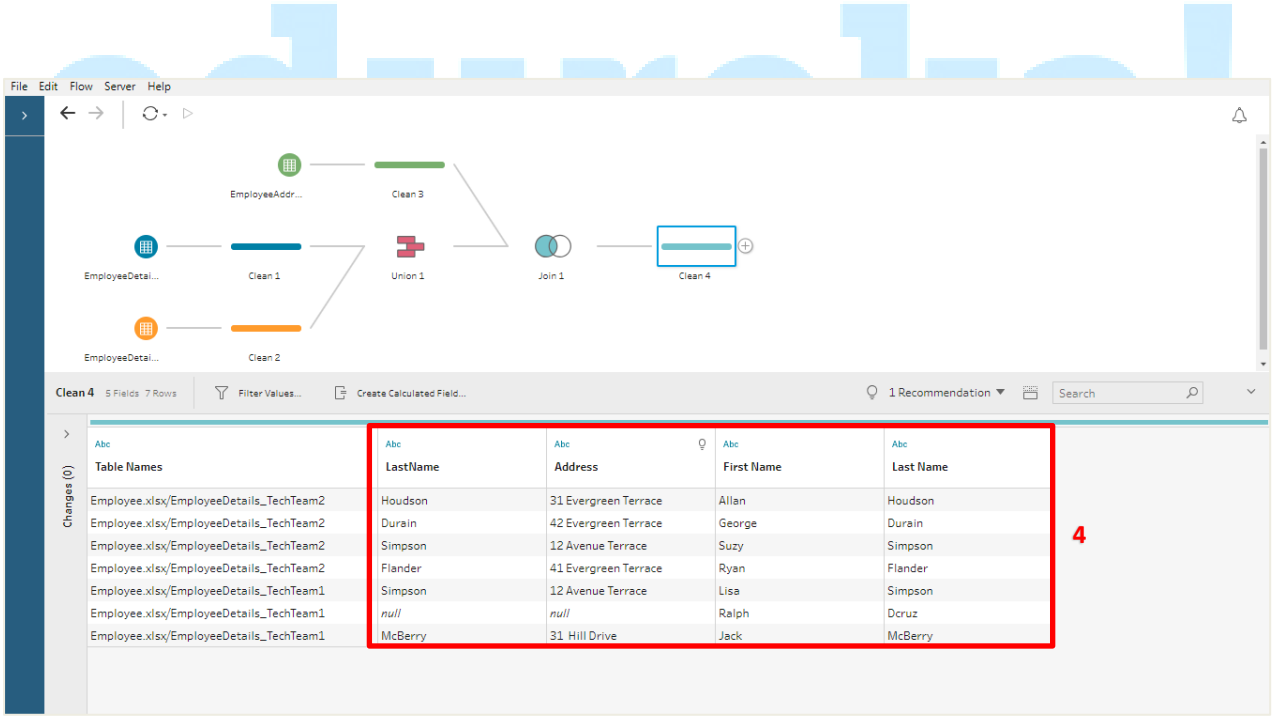
**4** → All the employees are combined and put together here.




File Edit Flow Server Help
Connections
Employee.xlsx
Microsoft Excel
Search
Tables
Use Data Interpreter
Data Interpreter might be able to clean your Microsoft Excel workbook.
EmployeeAddress
EmployeeDetails_TechTe...
EmployeeDetails_TechTe...
EmployeeDetai...
Clean 1
Union 1
EmployeeDetai...
Clean 2
EmployeeAddr...
Clean 3
Clean 3 2 Fields 5 Rows
Filter Values...
Create Calculated Field...
1 Recommendation
Search
Changes (0)
Abc
LastName 5
Durain
Flander
Houdson
McBerry
Simpson
Abc
Address 5
12 Avenue Terrace
31 Hill Drive
31 Evergreen Terrace
41 Evergreen Terrace
42 Evergreen Terrace


File Edit Flow Server Help
Connections
Employee.xlsx
Microsoft Excel
Search
Tables
Use Data Interpreter
Data Interpreter might be able to clean your Microsoft Excel workbook.
EmployeeAddress
EmployeeDetails_TechTe...
EmployeeDetails_TechTe...
EmployeeAddr...
Clean 3
2
EmployeeDetai...
Clean 1
Union 1
Join 1
EmployeeDetai...
Clean 2
Join 1 5 Fields 6 Rows
Filter Values...
Create Calculated Field...
Search
Settings
Changes (0)
Applied Join Clauses
Union 1
Last Name
=
Clean 3
LastName
Join Type: Inner join
Summary of Join Results
Click the bar segments to view the included and excluded values.
Mismatched values
Join Clauses
Show only mismatched values
Union 1
Last Name
Dcruz
Durain
Flander
Houdson
McBerry
Simpson
Clean 3
LastName
Durain
Flander
Houdson
McBerry
Simpson
Join Results
Abc
Table Names 2
Employee.xlsx/EmployeeDe...
Employee.xlsx/EmployeeDe...
Abc
LastName 5
Durain
Flander
Houdson
McBerry
Simpson


File Edit Flow Server Help
EmployeeAddr...
Clean 3
EmployeeDetai...
Clean 1
Union 1
Join 1
EmployeeDetai...
Clean 2
Join 1 5 Fields 6 Rows
Filter Values...
Create Calculated Field...
Search
Settings
Changes (0)
Applied Join Clauses
Union 1
Clean 3
Last Name = LastName
Join Type: Left join
Click the graphic to change the join type.
Union 1
Clean 3
3
Summary of Join Results
Click the bar segments to view the included and excluded values.
Mismatched values
Join Clauses
Show only mismatched values
Union 1
↑ Last Name
Dcruz
Durain
Flander
Houdson
McBerry
Simpson
Clean 3
↑ LastName
Durain
Flander
Houdson
McBerry
Simpson
Join Results
Table Names
LastName
Address
Employee.xlsx/EmployeeDetails_TechTeam2 Houdson 31 Every
Employee.xlsx/EmployeeDetails_TechTeam2 Durain 42 Every
Employee.xlsx/EmployeeDetails_TechTeam2 Simpson 12 Aven
Employee.xlsx/EmployeeDetails_TechTeam2 Flander 41 Every
Employee.xlsx/EmployeeDetails_TechTeam1 Simpson 12 Aven
Employee.xlsx/EmployeeDetails_TechTeam1 null null
Employee.xlsx/EmployeeDetails_TechTeam1 McBerry 31 Hill


File Edit Flow Server Help
EmployeeAddr...
Clean 3
EmployeeDetai...
Clean 1
Union 1
Join 1
Clean 4
EmployeeDetai...
Clean 2
Clean 4 5 Fields 7 Rows
Filter Values...
Create Calculated Field...
1 Recommendation
Search
Changes (0)
Table Names
LastName
Address
First Name
Last Name
Employee.xlsx/EmployeeDetails_TechTeam2 Houdson 31 Evergreen Terrace Allan Houdson
Employee.xlsx/EmployeeDetails_TechTeam2 Durain 42 Evergreen Terrace George Durain
Employee.xlsx/EmployeeDetails_TechTeam2 Simpson 12 Avenue Terrace Suzy Simpson
Employee.xlsx/EmployeeDetails_TechTeam2 Flander 41 Evergreen Terrace Ryan Flander
Employee.xlsx/EmployeeDetails_TechTeam1 Simpson 12 Avenue Terrace Lisa Simpson
Employee.xlsx/EmployeeDetails_TechTeam1 null null Ralph Dcruz
Employee.xlsx/EmployeeDetails_TechTeam1 McBerry 31 Hill Drive Jack McBerry
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