

Indirect file loading informatica PC

Application server directory is mounted on Etl server for various project reasons. Informatica process indirect files and reads data from all files when pointed to informatica server path but randomly fails with error “couldn’t read indirect file” when pointing to newly mounted server directory, though the directory is also present in same host. Permission and group is same for both directories. Note: there is no issue faced for direct files in both directory. Kindly help

Is there any catch behind indirect file processing for Informatica, should that be placed only in Etl server srcfiles?

asked Oct 31 at 12:12



Indirect File Loading in Informatica Cloud (IICS) - ThinkETL

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Introduction

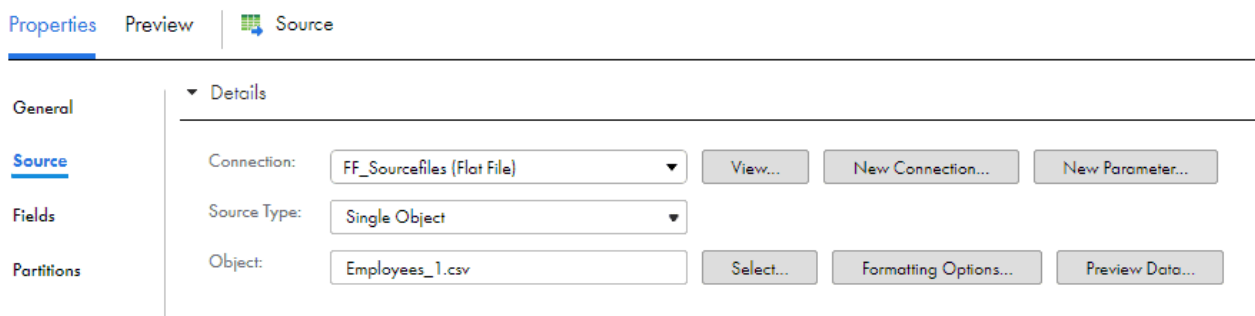
The ability to process multiple source files of same structure and properties through single source transformation in a mapping is called Indirect file loading.

If you are from Powercenter background you might be already familiar with Indirect file loading concept. Let’s discuss how that can be implemented in Informatica Cloud.

Direct File Loading

Normally when we want to process a flat file as a source in Informatica Cloud, you select a Flat File connection in the source and select the flat file you wanted to process as a source. Here the Source Type by default will be selected as ‘Single object’. This is referred as a Direct loading technique.

For example if you wanted to process employee data from flat file into a target, you select the details as shown below in source in Direct loading technique.



Let’s say you are receiving multiple employee information files. These files are with same structure and flat file properties. Then there is no need to create a separate mapping for each source file. Informatica provides an option to load multiple flat files of same file structure and properties through a single mapping and this functionality is referred as Indirect loading.

Instead of passing the actual source files as source, we pass a file which holds the information of all source filenames as source. Hence this load type is referred as Indirect loading.

Guidelines for creating file list:

- All files in the file list must share same file structure and properties.
- If no file directory path is mentioned along with file name, the mapping assumes the files are present in the directory path mentioned in the Source connection.
- Else if file path is mentioned, files are picked up from the mentioned directory.
- Every path must be local to the secure agent.

There are 3 different ways in which we can implement Indirect file loading in Informatica Cloud.

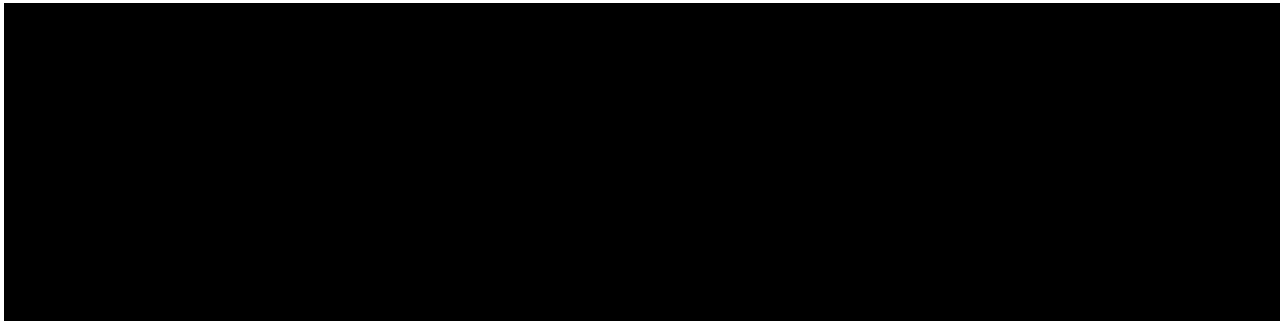
1. Using the File List as the Source Type in Source transformation.
2. Using the Command as the Source Type in Source transformation.
3. Using the Data Integration Quick Start Bundle.

Let's discuss each type in detail

1. Indirect File Loading using File List

In the source transformation, under Source Type select File List.

Under the Object, select the file which contains the list of source files to be processed.



List file contents

```
Source_FileList - Notepad
File Edit Format View Help
C:\Infa\Employees_1.csv
C:\Infa\Employees_2.csv
```

Source file contents

```
Employees_1 - Notepad
File Edit Format View Help
Employee_Id,Employee_Name,Employee_DepartmentName
1,Richard Parker,HR
2,Anthony Berk,HR
```

```
Employees_2 - Notepad
File Edit Format View Help
Employee_Id,Employee_Name,Employee_DepartmentName
3,Bruce Wayne,Administration
4,Peter Parker,IT
```

Once target is configured, trigger the mapping and all the records from all the source files will be loaded into the target.

2. Indirect File Loading using Command Source Type

In the source transformation, under Source Type select Command.

In this method you need to provide a Sample Object as shown below. Select any one of the source file as a sample object or create a custom sample object.

Under Command provide the script name along with the directory path.

General

Source

Fields

Partitions

Details

Connection: FF_Info (Flat File) View... New Connection... New Parameter...

Source Type: Command

Sample Object: Employees_1.csv Select... Formatting Options... Preview Data...

Command: C:\Infa\Get_Filelist.bat

Windows Script contents:

Get_Filelist - Notepad

File Edit Format View Help

```
@echo off
cd C:\Infa
dir /b Employees_*.csv
```

Linux Script contents:

If you are running on Linux sever, the Command will be like /Informatica/Scripts/Get_Filelist.sh and script contents as below.

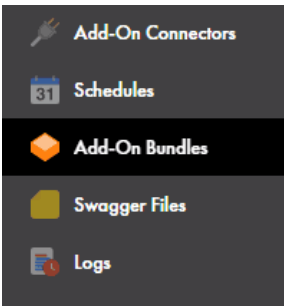
```
cd /Informatica/Scripts/ ls Employees_*.csv
```

Once target is configured, trigger the mapping and all the records from all the source files will be loaded into the target.

3. Indirect File Loading using the Data Integration Quick Start Bundle

3.1 Installing Data Integration Quick Start Bundle

Navigate to Informatica Administrator, in the menu on the left side select Add-On Bundles.



Click on Available Bundles, select the Data integration Quick start bundle and Install it.

Available Bundles (32)

Name	Description	Publisher
Informatica Cloud Connectivity as a Service Bundle		Informatica
Data Integration Quick Start	Accelerate your cloud integration projects by a...	Informatica Cloud
Data Migration Quick Start	Accelerate your cloud migration projects by aut...	Informatica Cloud

View available bundle

Bundle Details

Name: Data Integration Quick Start

Description: Accelerate your cloud integration projects by automating common integration patterns and providing advanced transformations not available natively in the Data Synchronization application. You can download the user guide and sample source files for this bundle at <https://community.informatica.com/docs/DOC-3720>.

Now the bundle must be available under Installed Bundles.

Installed Bundles

Copied Bundles

Available Bundles

Installed Bundles (1)

Name	Description	Publisher	Version	Bundle Type
Data Integration Quick Start	Accelerate your cloud int...	Informatica Cloud	1.6	Public

3.2 Creating Mapping Configuration Task using installed Bundle

Now under Projects, a new project Add-On Bundles is created.

All Projects (2)

<input type="checkbox"/>	Name	Description
<input type="checkbox"/>	Add-On Bundles	
<input type="checkbox"/>	Default	Auto-generated Default Project

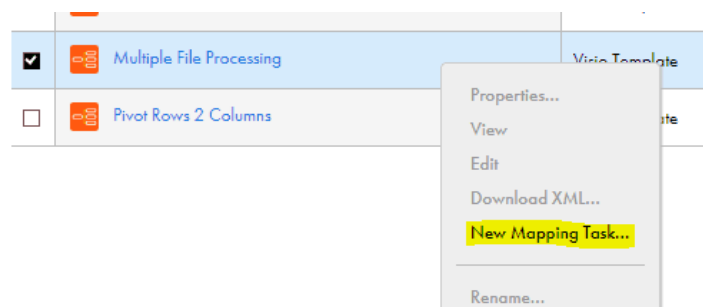
Go to Add-On Bundles > Data Integration Quick Start

Explore | All Projects > Add-On Bundles > Data Integration Quick Start

Data Integration Quick Start (6)

<input type="checkbox"/>	Name	Type	Description
<input type="checkbox"/>	Data Aggregation	Visio Template	Use the Data Aggregation template to perform aggregate ...
<input type="checkbox"/>	Data Augmentation	Visio Template	Use the Data Augmentation template to augment source d...
<input type="checkbox"/>	Exception Handling	Visio Template	Use the Exception Handling template to route records with...
<input type="checkbox"/>	Join Data Sources	Visio Template	Use the joiner template to join two relational sources, two ...
<input type="checkbox"/>	Multiple File Processing	Visio Template	Use the Multiple File Processor template in a mapping con...
<input type="checkbox"/>	Pivot Rows 2 Columns	Visio Template	Use the Pivot Rows to Columns template in a custom integr...

Right Click on Multiple File Processing and select New Mapping Task.



No mapping required. The bundle will create only a Mapping Task and handles the functionality through Mapping task.

3.3 Configuring the Mapping task to perform Indirect Loading

In the Definition section select the Task Name and Runtime Environment

1 Definition 2 Sources 3 Targets 4 Other Parameters 5 Schedule

Task Details

Task Name: * MCT_IndirectLoading

Location: * Default

Description:

Runtime Environment: * DESKTOP-PKDTFOH ?

Template: * Multiple File Processing

Template Image: Multiple File Processing

Use the Multiple File Processor template in a mapping configuration task to process a list of files with a single task.

You can use this template to process files that have the same data structure from multiple locations and write data to a single target. When you configure the task, you select one source file to provide the file format.

Under the Sources, select Source Connection and Source Object (sample file)

1 Definition **2 Sources** 3 Targets 4 Other Parameters 5 Schedule

Source Parameter Details

Source Connection: * FF_Info (Flat File)

Source Object: * Employees_1.csv

Display source fields in alphabetical order

Data Preview

Employees_1.csv (Total columns: 3)

Employee_Id	Employee_Name	Employee_DepartmentName
1	Richard Parker	HR
2	Anthony Berk	HR

Under the Targets, select Target Connection and Target object.

1 Definition 2 Sources **3 Targets** 4 Other Parameters 5 Schedule

Target Parameter Details

Target Connection: * Oracle_Connection (Oracle)

Target Object: * ALL_EMPLOYEE_DETAILS

Display target fields in alphabetical order

Under the Other Parameters section, provide the file name which holds the list of all source files.

Do not mention any source directory path of the file. The path should be same as the path mentioned in the Source connection.

1 Definition 2 Sources 3 Targets 4 Other Parameters 5 Schedule

Other Parameter Details

File List: *

Filter Condition Parameter Details*

Expression **Delete**

TRUE

FieldMap Parameter Details*

Source

Object: Default

Status	Name
✓	Employee_Id
✓	Employee_Name
✓	Employee_DepartmentName

...

...

...

Target

Object: ALL_EMPLOYEE_DETAILS

Status	Name	Actions	Expression
✓	EMPLOYEE_ID	fx	Employee_Id
✓	EMPLOYEE_NAME	fx	Employee_Name
✓	DEPARTMENT_N...	fx	Employee_DepartmentName

Display technical names instead of labels

Finally map the target fields and save the mapping task.

Trigger the mapping task and all the source rows must be now loaded into target.

Conclusion

Personally I do not prefer the final method of implementation. It requires installing an Add-On Bundle and lengthy process compared to other methods.

Anyhow here are all the various methods by which we can implement Indirect file loading in Informatica Cloud (IICS).

Indirect File Loading

Hi

In direct file loading, The input file have the actual data to be loaded.

In Indirect file loading the input file have the list of file names whose data is to be loaded.

(or file list creation)

usually this method is used to load multiple files into single target using one mapping and those files

should have same structure, can be with different name/locations (accessible to Integration Services).

Thanks

How to Implement Indirect File Load in Informatica PowerCenter - Perficient Blogs

Informatica PowerCenter is an ETL tool which is used to extract data from source and apply some transformation rules on the source data and load it to the target system.

Informatica indirect file load is an option used to load the data from multiple source files that have similar structure and properties. The integration service reads the source file sequentially and then loads the data into the target. Indirect file load is applicable only when we have flat file as a source. Only text file (.txt) as flat file is supported.

To understand the indirect file load better let's take a scenario:

In an organization that has multiple branch offices, employee data for each branch is stored in a separate employee file. These files have the same structure and similar properties, and we want to load all these files into the same target. Creating a mapping for each source file would be a tedious process. Informatica provides a handy alternative of Indirect file load to handle this type of scenario.

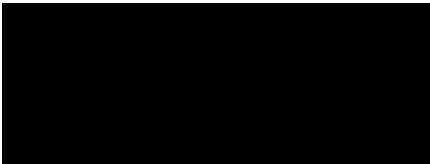


The process involved in specifying the indirect file load is:

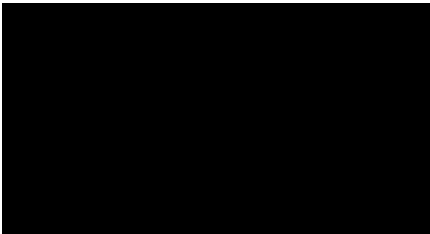
1. Creating a list file
2. Configuring the file properties in session.

Implementation of Indirect file load

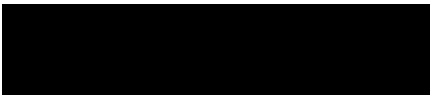
Step 1: Create a list file (emp_list.txt) containing the names of all other source files e.g., emp_a.txt, emp_b.txt, emp_c.txt, emp_d.txt



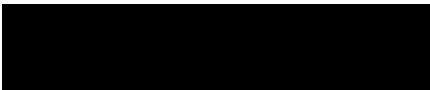
Step 2: After importing the source into the designer, enable the port of Add Currently Processed Flat File Name port.



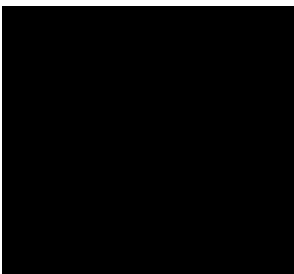
Step 3: After creating the workflow, change the session properties of source i.e., Source filetype to Indirect.



Step 4: While providing the source filename in the session provide list filename i.e., emp_list.txt



Step 5: While creating the target table add one more column i.e., FileName which will provide the source file name from where the data is imported.



This is how we successfully performed indirect file load in Informatica PowerCentre.

Happy Reading!!

indirect file loading

Troubleshooting documents, product guides, how to videos, best practices, and more

Knowledge Base

One-stop self-service portal for solutions, FAQs, Whitepapers, How Tos, Videos, and more

Documentation

Information library of the latest product documents

Support TV

Video channel for step-by-step instructions to use our products, best practices, troubleshooting tips, and much more

Velocity (Best Practices)

Best practices and use cases from the Implementation team

HOW TO: Use an Indirect File for a source on a mapping

In PowerCenter, you can create a normal mapping and session with a flat file source. Use the flat file as a template for a source definition in Informatica Designer and use it as the basis for your mapping.

However, you can also provide a flat file that contains a list of source files as a source. This is known as an "Indirect Source".

For the attached example, we have provided:

- A source file called indirect_source.DAT.
- A mapping and workflow

The source file, indirect_source.DAT, contains these contents:

- C:\FILE_IN_1.DAT
- C:\FILE_IN_2.DAT
- C:\FILE_IN_3.DAT

Each of the files mentioned in indirect_source.DAT exists on the C:\ drive.

- C:\FILE_IN_1.DAT contains one line, "FIRST".
- C:\FILE_IN_2.DAT contains one line, "SECOND".
- C:\FILE_IN_3.DAT contains one line, "THIRD".

In the session, s_m_indirect_source, under the Mapping tab, under the source, the Source Filetype has been changed from the default value of 'Direct' to 'Indirect'. This means that it will read the list of rows from the flat file source, and will take those inputs as data for the session.

When you run the workflow with the given source files, the session will write an output file, file_out.out. file_out.out contains the following:

- "FIRST"
- "SECOND"
- "THIRD"

If the session used Direct as the source filetype, the output would have looked as follows:

- C:\FILE_IN_1.DAT
- C:\FILE_IN_2.DAT
- C:\FILE_IN_3.DAT

Please download the attached zip file from the Attachments section in this article, and test it for yourself. Place indirect_source.DAT in your SrcFiles directory, and place FILE_IN_1.DAT, FILE_IN_2.DAT, and FILE_IN_3.DAT on the C:\ drive. (This can work on Unix/Linux as well. You will have to make minor changes for the locations of the files. But otherwise, the functionality is exactly the same as in this example on Windows.)

Note

Because each of the input files only has one line, the value for "Number of Rows to Skip" for the file properties has been set to '0'.

Indirect loading for flat files Informatica PowerCenter



Problem Description :

Indirect loading for flat files of Informatica PowerCenter Suppose from each country we are getting the Customer's data in a separate file. These files have the same structure and same properties and we want to load all these files into a single target. Creating a mapping for each source file will be a tedious process. Informatica provides an easy option (indirect load) to handle this type of scenario.

Challenges to user/developer:

Indirect loading for flat files In the Informatica PowerCenter, the indirect source file type option is used to load the data from multiple sources files that have the same structure and properties. The integration service reads each file sequentially and then loads the data into the target.

The process involved in specifying the indirect load is:

- Creating a list file and,
- Configuring the file properties in session.

Solution:

Indirect loading for flat files in Informatica

- Import one flat file definition and make the mapping as per needs.
- Now make a list file that contains the locations and names of each 4 flat files.

Example:

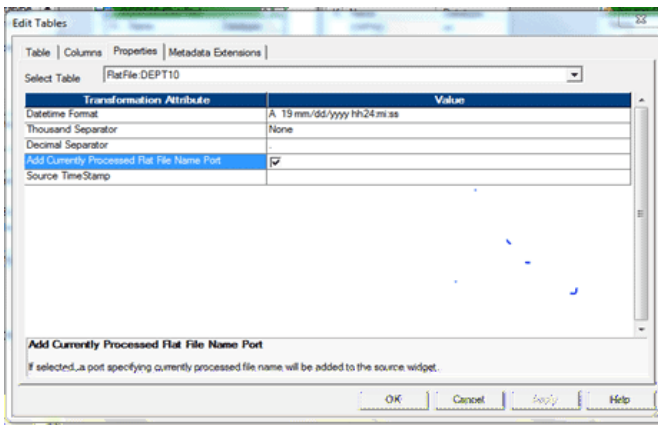
- C:\Informatica_Client\server\infa_shared\SrcFiles\EMP10
- C:\Informatica_Client\server\infa_shared\SrcFiles\EMP20
- C:\Informatica_Client\server\infa_shared\SrcFiles\EMP30
- C:\Informatica_Client\serve\infa_shared\SrcFiles\EMP40

Technical solution:

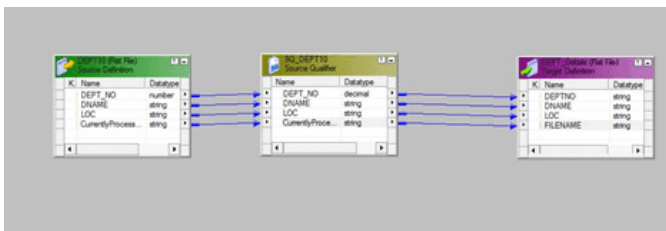
Indirect loading for flat files Informatica PowerCenter

Create mapping:

- Open the folder where you want to create the mapping.
- Click Tools and select Mapping Designer.
- Click Mapping to create a mapping name. EX: m_indirect_file_loading.
- In the source analyzer import the source file from the source tab and select file name DEPT10 and go to edit the tables and properties tab and check Add Currently Processed Flat File Name Port.
- In Target analyzer create target file as same as source and add one more port to target called filename with the precision of 255.

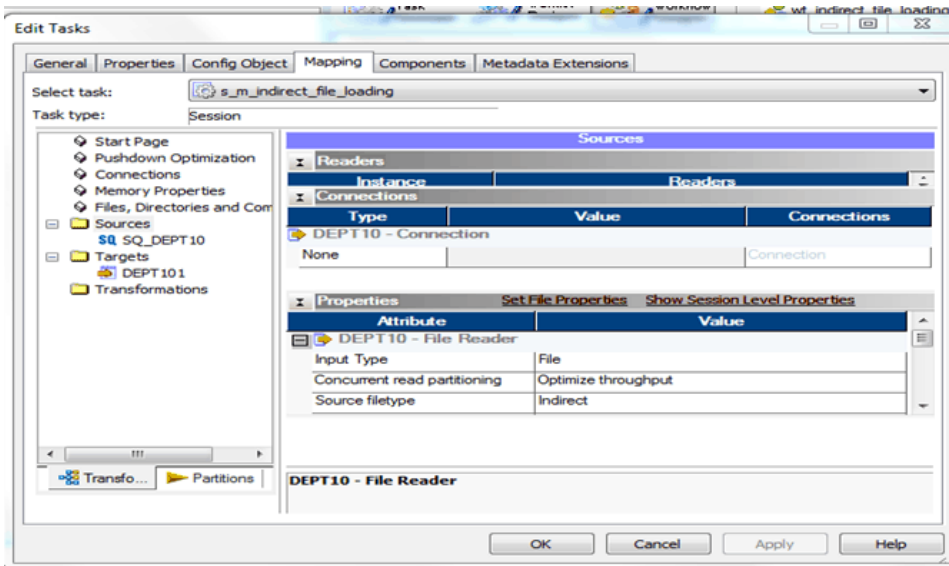


- o In Mapping Designer Drag Dept from source and target table.
 - o Passports from SQ_EMP10 to the target table.
 - o Click mapping and Validate.
 - o Repository and save.



Create workflow:

- o Click workflows to create workflow names. Ex: wf_indirect_file_loading.
 - o Now create a session and under the properties tab give the source file name and source file directory location as list file name and list file directory location.
 - o Now change the source file type property from direct to indirect.



- o Click apply
 - o Validate session.
 - o Create a workflow. Save it to the repository and run.
 - o Finally, open the target file and check that 4 rows are written to the target.

	A	B	C	D	E	F	G	H	I	J	K	L	M
1	10	ACCOUNT	NEWYORK	C:\Informatica_Client\server\infa_shared\SrcFiles\DEPT10.CSV									
2	20	marketing	delhi	C:\Informatica_Client\server\infa_shared\SrcFiles\DEPT20.CSV									
3	30	banking	hyderab	C:\Informatica_Client\server\infa_shared\SrcFiles\DEPT30.CSV									
4	40	sales	London	C:\Informatica_Client\server\infa_shared\SrcFiles\DEPT40.CSV									
5													

Advantages:

Using a single-source instance, we can load multiple source file data to a single target.

Issues:

The file structure should be the same otherwise we cannot do the indirect method.

Conclusion:

We can load multiple flat files using single-source instances by using the indirect method of loading.

How to specify indirect file loading in Informatica? – Technical-QA.com

How to specify indirect file loading in Informatica?

The process involved in specifying the indirect load options are 1.Creating a list file and 2.Configuring the file properties in session. You can create a list file manually and specify each source file you want to load into the target in a separate line. As an example consider the following list file:

How to specify source file type in Informatica?

Each path must be local to the Integration Service node. Source File Directory: Enter the directory name where the source file resides. Source Filetype: Specify the indirect option when you want to load a multiple files with same properties. Note: If you have multiple files with different properties, then you cannot use the indirect load option.

How to process flat files in Informatica cloud?

Normally when we want to process a flat file as a source in Informatica Cloud, you select a Flat File connection in the source and select the flat file you wanted to process as a source. Here the Source Type by default will be selected as ‘Single object’.

How to specify a source file for indirect loading?

The process involved in specifying the indirect load options are 1.Creating a list file and 2.Configuring the file properties in session. You can create a list file manually and specify each source file you want to load into the target in a separate line.

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The process involved in specifying the indirect load options are 1.Creating a list file and 2.Configuring the file properties in session. You can create a list file manually and specify each source file you want to load into the target in a separate line.

How to do indirect file loading in Excel?

First lets see how to do indirect file loading. 0)import a flat file and create a mapping to load the flat file data to target.The source you are seeing here below is a flat file.

Post navigation