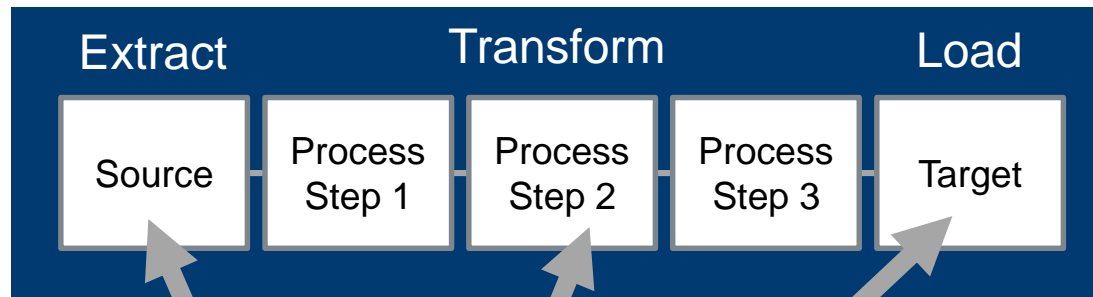


ETL Metadata Injection

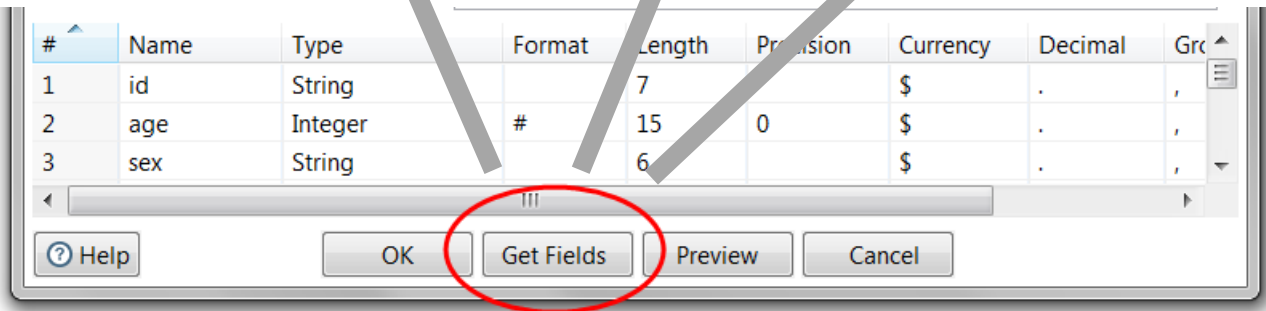
A template-based approach to dynamic data integration

Metadata details
(fields, datatypes, etc.)
are required for various
steps within a
transformation:
sources, targets, and/or
transformation steps.

Legacy ETL tools
require you to hardcode
the metadata at
development time.



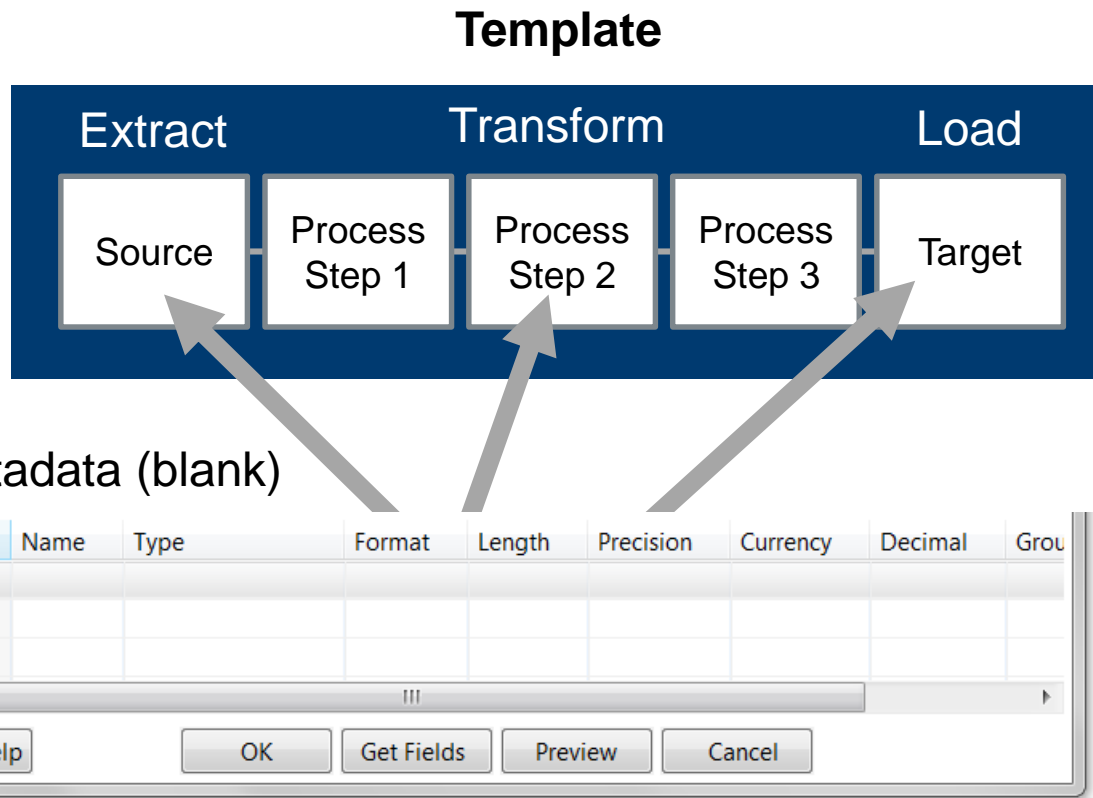
Metadata



The screenshot shows a metadata table with columns: #, Name, Type, Format, Length, Precision, Currency, Decimal, and Group. It contains three rows of data. Below the table is a toolbar with buttons: Help, OK, Get Fields (circled in red), Preview, and Cancel.

#	Name	Type	Format	Length	Precision	Currency	Decimal	Group
1	id	String		7		\$.	,
2	age	Integer	#	15	0	\$.	,
3	sex	String		6		\$.	,

ETL Metadata Injection
lets you inject the
metadata into a
template at runtime.



Use Case 1 – Scalability / Reuse

Same workflow, many different files/tables, etc.

Maintain metadata in a list/table and reuse a single workflow template.

Example:
migrate 1,500 tables

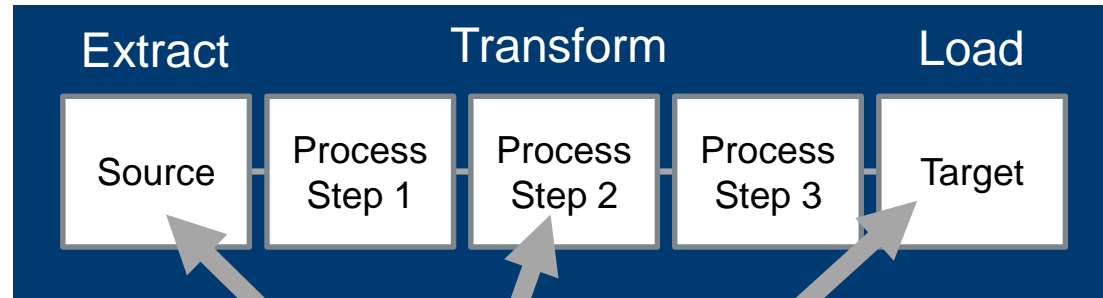


Metadata (blank)

#	Name	Type	Format	Length	Precision	Currency	Decimal	Group

Help OK Get Fields Preview Cancel

Template



Use Case 2 – Self-service

Allow user/customer to enter metadata in a simple web form

Example:
select fields for a template
to pull data from Hadoop
and build an on-demand
data mart



Template

Extract	Transform			Load
Source	Process Step 1	Process Step 2	Process Step 3	Target

Metadata (blank)

#	Name	Type	Format	Length	Precision	Currency	Decimal	Group

Help OK Get Fields Preview Cancel

Use Case 3 – Auto-Discovery



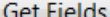


Parse out metadata
dynamically at runtime.

Example:
Dynamically parse
messages of varying
formats



Metadata (blank)

#	Name	Type	Format	Length	Precision	Currency	Decimal	Group

 Help  OK  Get Fields  Preview  Cancel

Template



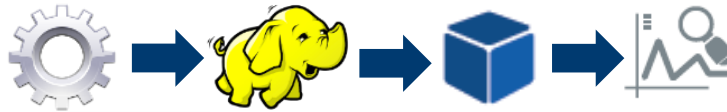
DRY Principle – Don't Repeat Yourself

Use a Templated Approach

 **Deutsche Bank**



Large Oil & Gas Co.



 **KINGLAND**
S Y S T E M S



**Major Professional
Services Firm**



Use Cases

Scalability: simplified data onboarding & management

Auto-Discovery: dynamic parsing of log files for cybersecurity

Self-service: customer on-boarding

Scalability: large data migration